



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

Reporting Week	Sept 2 nd to Sept 8 th , 2024
Report #	24
Page	1 of 7

Eagle Mountain - Woodfibre Gas Pipeline Project

BCER Waste Discharge Permit Weekly Report



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

Reporting Week	Sept 2 nd to Sept 8 th , 2024
Report #	24
Page	2 of 7

Contents


Preamble.....	3
Introduction	3
Sampling Methodology.....	3
Summary-BC Rail Site	4
Site Activities	4
Point of Discharge from Water Treatment System Monitoring	4
Exceedances.....	5
Receiving Environment Monitoring.....	5
Receiving Environment Monitoring Details.....	5
Summary-Woodfibre	6
Site Activities	6
Point of Discharge from Water Treatment System Monitoring	6
Receiving Environment Monitoring.....	6
Receiving Environment Monitoring Details.....	7

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

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 2 nd to Sept 8 th , 2024
	Report #	24
	Page	3 of 7

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.


 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 2 nd to Sept 8 th , 2024
	Report #	24
	Page	4 of 7

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 Observer 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.


 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 2 nd to Sept 8 th , 2024
	Report #	24
	Page	5 of 7

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	2024-09-03	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix B.

Table 5: Downstream Monitoring Information

Location	Date of Lab Sample	Real Time Monitored	Results
Squamish River Downstream	2023-09-03	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.



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

Reporting Week	Sept 2 nd to Sept 8 th , 2024
Report #	24
Page	6 of 7

Summary-Woodfibre

Site Activities

- The downstream sonde/data logger was removed July 16th as there was not enough water in the watercourse to log data. BCER was notified.
- The downstream sonde/data logger was reinstalled on August 23rd further downstream, and removed on September 6th due to construction unrelated to EGP that was causing turbidity spikes.
- Included in Appendix C is data from the Water Treatment Plant and data from using a YSI downstream while discharging to document receiving environment when 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	2024-09-02	Yes-Appendix C	177 m ³
Woodfibre	2024-09-03	Yes-Appendix C	219 m ³
Woodfibre	2024-09-04	Yes-Appendix C	290 m ³
Woodfibre	2024-09-05	Yes-Appendix C	227 m ³
Woodfibre	2024-09-06	Yes-Appendix C	180 m ³
Woodfibre	2024-09-07	Yes-Appendix C	123 m ³
Woodfibre	2024-09-08	Yes-Appendix C	134 m ³

*Max discharge is 1500m³/day

Exceedances

None to report.

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	2024-09-04	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix D.


 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 2 nd to Sept 8 th , 2024
	Report #	24
	Page	7 of 7

Table 5: Downstream Monitoring Information

	Date of Lab Sample	Real Time Monitored	Results
Woodfibre Downstream	2024-09-04	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 th , 2024 due to dry conditions. Sonde was reinstalled at a lower location with water on August 22 nd and removed on Sept 6 th as WLNG was working in area. 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.



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix A	A-1

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



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix A	A-2

BCR Site Batch Sample Analysis

No Discharges



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix A	A-3

**BCR Site Batch Sample Lab Documentation
No Discharges**



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix A	A-4

**BCR Site WTP Discharge Field Notes and Logs
No Discharges**



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix B	B-1

Appendix B: BCR Site Receiving Environment Documentation



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix B	B-2

BCR Site Receiving Environment Sample Analysis



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix B	B-3

BCR Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order : VA24C2792
Client : Triton Environmental Consultants Ltd.
Contact :
Address :

Telephone :
Project : 11964
PO : 11964-Task 20-Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 6
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 03-Sep-2024 11:00
Date Analysis Commenced : 04-Sep-2024
Issue Date : 11-Sep-2024 19:55

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
[Redacted]		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Metals, Waterloo, Ontario
		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Inorganics, Waterloo, Ontario
		Metals, Waterloo, Ontario
		Administration, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia



General Comments

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

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

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

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

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

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

<: less than.

>: greater than.

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

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

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

Qualifiers

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



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US 1	SQU DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	03-Sep-2024 08:43	03-Sep-2024 09:10	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2792-001	VA24C2792-002	-----	-----	-----	
					Result	Result	----	----	----	
Field Tests										
Conductivity, field	----	EF001/VA	0.01	µS/cm	36.000	30.000	----	----	----	
pH, field	----	EF001/VA	0.01	pH units	7.00	7.10	----	----	----	
Temperature, field	----	EF001/VA	0.01	°C	12.5	12.7	----	----	----	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	9.23	8.34	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	21.4	20.1	----	----	----	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	57	34	----	----	----	
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	156	133	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	9.0	8.2	----	----	----	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0888	0.0563	----	----	----	
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	1.11	0.98	----	----	----	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	<0.020	<0.020	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3-L/V A	0.0050	mg/L	0.0164	0.0143	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2-L/V A	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.148	0.110	----	----	----	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.164	0.151	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	2.88	2.52	----	----	----	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	<0.50	<0.50	----	----	----	
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/VA	0.0015	mg/L	<0.0015	<0.0015	----	----	----	
Sulfide, un-ionized (as H2S), from total	7783-06-4	EC395/VA	0.0015	mg/L	<0.0015	<0.0015	----	----	----	
Sulfide, total (as H2S)	7783-06-4	E395/VA	0.0016	mg/L	<0.0016	<0.0016	----	----	----	
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	6.67	6.09	----	----	----	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US 1	SQU DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	03-Sep-2024 08:43	03-Sep-2024 09:10	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2792-001	VA24C2792-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00047	0.00048	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.0700	0.0673	----	----	----	
Beryllium, total	7440-41-7	E420/VA	0.000100	mg/L	<0.000100	<0.000100	----	----	----	
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Boron, total	7440-42-8	E420/VA	0.010	mg/L	<0.010	<0.010	----	----	----	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	0.0000211	0.0000213	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	5.45	4.91	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000188	0.000176	----	----	----	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	0.00196	0.00197	----	----	----	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	0.00154	0.00158	----	----	----	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00719	0.00670	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	3.55	3.46	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000775	0.000786	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0028	0.0027	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	1.90	1.90	----	----	----	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0886	0.0881	----	----	----	
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	0.000417	0.000388	----	----	----	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	0.00203	0.00195	----	----	----	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	0.207	0.213	----	----	----	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	1.84	1.77	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00488	0.00479	----	----	----	
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	13.8	12.4	----	----	----	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	0.000014	0.000014	----	----	----	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	3.26	2.95	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0675	0.0599	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	0.83	0.69	----	----	----	
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	0.000028	0.000028	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US 1	SQU DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	03-Sep-2024 08:43	03-Sep-2024 09:10	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2792-001	VA24C2792-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	<0.00030 ^{DLM}	<0.00030 ^{DLM}	----	----	----	
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	0.214	0.224	----	----	----	
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	0.000125	0.000136	----	----	----	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00881	0.00871	----	----	----	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0113	0.0112	----	----	----	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00080 ^{DLM}	<0.00060 ^{DLM}	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L	0.0324	0.0274	----	----	----	
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00011	0.00012	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00319	0.00349	----	----	----	
Beryllium, dissolved	7440-41-7	E421/VA	0.000100	mg/L	<0.000100	<0.000100	----	----	----	
Bismuth, dissolved	7440-69-9	E421/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Boron, dissolved	7440-42-8	E421/VA	0.010	mg/L	<0.010	<0.010	----	----	----	
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	3.09	2.80	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00031	0.00026	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.032	0.022	----	----	----	
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	0.367	0.328	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00620	0.00604	----	----	----	
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	0.000332	0.000308	----	----	----	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US 1	SQU DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	03-Sep-2024 08:43	03-Sep-2024 09:10	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2792-001	VA24C2792-002	-----	-----	-----	
					Result	Result	----	----	----	
Dissolved Metals										
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	0.568	0.572	----	----	----	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00076	0.00094	----	----	----	
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	2.66	2.25	----	----	----	
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	1.33	1.19	----	----	----	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0191	0.0170	----	----	----	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	0.69	0.68	----	----	----	
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	0.00088	0.00071	----	----	----	
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	0.000016	0.000013	----	----	----	
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	0.00092	0.00080	----	----	----	
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	<0.00020	<0.00020	----	----	----	
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	Field	----	----	----	
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	----	----	----	
Speciated Metals										
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/WT	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Chromium, trivalent [Cr III], total	16065-83-1	EC535/WT	0.00050	mg/L	0.00196	0.00197	----	----	----	

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

<p>Work Order : VA24C2792</p> <p>Client : Triton Environmental Consultants Ltd.</p> <p>Contact : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : ----</p> <p>Project : 11964</p> <p>PO : 11964-Task 20-Phase 3C-4C</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Water Analysis</p> <p>Quote number : VA23-TRIT100-012_V2</p> <p>No. of samples received : 2</p> <p>No. of samples analysed : 2</p>	<p>Page : 1 of 15</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : [REDACTED]</p> <p>Date Samples Received : 03-Sep-2024 11:00</p> <p>Issue Date : 11-Sep-2024 19:55</p>
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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.

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.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Matrix Spike outliers occur - please see following pages for full details.
- 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.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Dissolved Metals	QC-MRG3-1637683 002	----	Sulfur, dissolved	7704-34-9	E421	78.0 % ^{MES}	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).

Matrix Spike (MS) Recoveries								
Total Metals	Anonymous	Anonymous	Thorium, total	7440-29-1	E420	67.8 % ^{MES}	70.0-130%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



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		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) SQU DS 1	E298	03-Sep-2024	10-Sep-2024	28 days	7 days	✔	10-Sep-2024	28 days	7 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) SQU US 1	E298	03-Sep-2024	10-Sep-2024	28 days	7 days	✔	10-Sep-2024	28 days	7 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE SQU DS 1	E235.Br-L	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE SQU US 1	E235.Br-L	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE SQU DS 1	E235.Cl	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE SQU US 1	E235.Cl	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE SQU DS 1	E235.F	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Fluoride in Water by IC										
HDPE SQU US 1	E235.F	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE SQU DS 1	E235.NO3-L	03-Sep-2024	04-Sep-2024	3 days	1 days	✔	04-Sep-2024	3 days	1 days	✔
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE SQU US 1	E235.NO3-L	03-Sep-2024	04-Sep-2024	3 days	1 days	✔	04-Sep-2024	3 days	1 days	✔
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE SQU DS 1	E235.NO2-L	03-Sep-2024	04-Sep-2024	3 days	1 days	✔	04-Sep-2024	3 days	1 days	✔
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE SQU US 1	E235.NO2-L	03-Sep-2024	04-Sep-2024	3 days	1 days	✔	04-Sep-2024	3 days	1 days	✔
Anions and Nutrients : Sulfate in Water by IC										
HDPE SQU DS 1	E235.SO4	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Sulfate in Water by IC										
HDPE SQU US 1	E235.SO4	03-Sep-2024	04-Sep-2024	28 days	1 days	✔	04-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) SQU DS 1	E366	03-Sep-2024	10-Sep-2024	28 days	7 days	✔	10-Sep-2024	28 days	7 days	✔
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) SQU US 1	E366	03-Sep-2024	10-Sep-2024	28 days	7 days	✔	10-Sep-2024	28 days	7 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) SQU DS 1	E372-U	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) SQU US 1	E372-U	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	8 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) SQU DS 1	E509	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	7 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) SQU US 1	E509	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) SQU DS 1	E421	03-Sep-2024	10-Sep-2024	180 days	7 days	✓	10-Sep-2024	180 days	7 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) SQU US 1	E421	03-Sep-2024	10-Sep-2024	180 days	7 days	✓	10-Sep-2024	180 days	7 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial - total (lab preserved) SQU DS 1	EF001	03-Sep-2024	----	----	----		05-Sep-2024	----	2 days	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial - total (lab preserved) SQU US 1	EF001	03-Sep-2024	----	----	----		05-Sep-2024	----	2 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) SQU DS 1	E358-L	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	7 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (sulfuric acid) SQU US 1	E358-L	03-Sep-2024	10-Sep-2024	28 days	7 days	✓	10-Sep-2024	28 days	7 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE SQU DS 1	E290	03-Sep-2024	04-Sep-2024	14 days	1 days	✓	04-Sep-2024	14 days	1 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE SQU US 1	E290	03-Sep-2024	04-Sep-2024	14 days	1 days	✓	04-Sep-2024	14 days	1 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE SQU DS 1	E162	03-Sep-2024	----	----	----		09-Sep-2024	7 days	6 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE SQU US 1	E162	03-Sep-2024	----	----	----		10-Sep-2024	7 days	7 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE SQU DS 1	E160	03-Sep-2024	----	----	----		09-Sep-2024	7 days	6 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE SQU US 1	E160	03-Sep-2024	----	----	----		09-Sep-2024	7 days	6 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
UV-inhibited HDPE - total (sodium hydroxide) SQU DS 1	E532	03-Sep-2024	----	----	----		06-Sep-2024	28 days	3 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
UV-inhibited HDPE - total (sodium hydroxide) SQU US 1	E532	03-Sep-2024	----	----	----		06-Sep-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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) SQU DS 1	E508	03-Sep-2024	11-Sep-2024	28 days	8 days	✔	11-Sep-2024	28 days	8 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) SQU US 1	E508	03-Sep-2024	11-Sep-2024	28 days	8 days	✔	11-Sep-2024	28 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) SQU DS 1	E420	03-Sep-2024	10-Sep-2024	180 days	7 days	✔	11-Sep-2024	180 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) SQU US 1	E420	03-Sep-2024	10-Sep-2024	180 days	7 days	✔	11-Sep-2024	180 days	8 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) SQU DS 1	E395	03-Sep-2024	----	----	----		05-Sep-2024	7 days	2 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) SQU US 1	E395	03-Sep-2024	----	----	----		05-Sep-2024	7 days	2 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	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1631110	1	3	33.3	5.0	✔
Ammonia by Fluorescence	E298	1641564	1	16	6.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1631104	1	3	33.3	5.0	✔
Chloride in Water by IC	E235.Cl	1631102	1	10	10.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1643056	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637683	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1641567	1	6	16.6	5.0	✔
Fluoride in Water by IC	E235.F	1631103	1	4	25.0	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1631105	1	4	25.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1631106	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1631107	1	4	25.0	5.0	✔
TDS by Gravimetry	E162	1641514	2	37	5.4	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1636386	1	8	12.5	5.0	✔
Total Mercury in Water by CVAAS	E508	1644900	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1634890	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641565	1	18	5.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641563	1	16	6.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1641177	2	40	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1631110	1	3	33.3	5.0	✔
Ammonia by Fluorescence	E298	1641564	1	16	6.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1631104	1	3	33.3	5.0	✔
Chloride in Water by IC	E235.Cl	1631102	1	10	10.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1643056	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637683	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1641567	1	6	16.6	5.0	✔
Fluoride in Water by IC	E235.F	1631103	1	4	25.0	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1631105	1	4	25.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1631106	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1631107	1	4	25.0	5.0	✔
TDS by Gravimetry	E162	1641514	2	37	5.4	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1636386	1	8	12.5	5.0	✔
Total Mercury in Water by CVAAS	E508	1644900	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1634890	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641565	1	18	5.5	5.0	✔



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
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641563	1	16	6.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1641177	2	40	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1631110	1	3	33.3	5.0	✔
Ammonia by Fluorescence	E298	1641564	1	16	6.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1631104	1	3	33.3	5.0	✔
Chloride in Water by IC	E235.Cl	1631102	1	10	10.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1643056	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637683	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1641567	1	6	16.6	5.0	✔
Fluoride in Water by IC	E235.F	1631103	1	4	25.0	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1631105	1	4	25.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1631106	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1631107	1	4	25.0	5.0	✔
TDS by Gravimetry	E162	1641514	2	37	5.4	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1636386	1	8	12.5	5.0	✔
Total Mercury in Water by CVAAS	E508	1644900	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1634890	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641565	1	18	5.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641563	1	16	6.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1641177	2	40	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1641564	1	16	6.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1631104	1	3	33.3	5.0	✔
Chloride in Water by IC	E235.Cl	1631102	1	10	10.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1643056	1	16	6.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637683	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1641567	1	6	16.6	5.0	✔
Fluoride in Water by IC	E235.F	1631103	1	4	25.0	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1631105	1	4	25.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1631106	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1631107	1	4	25.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1636386	1	8	12.5	5.0	✔
Total Mercury in Water by CVAAS	E508	1644900	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1634890	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641565	1	18	5.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641563	1	16	6.2	5.0	✔



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
<i>Analytical Methods</i>							
Matrix Spikes (MS) - Continued							
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔



Methodology References and Summaries

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

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



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



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

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

Page : 15 of 15
Work Order : VA24C2792
Client : Triton Environmental Consultants Ltd.
Project : 11964



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

QUALITY CONTROL REPORT

Work Order : **VA24C2792**
Client : Triton Environmental Consultants Ltd.
Contact :
Address :

Telephone : ----
Project : 11964
PO : 11964-Task 20-Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012 _V2
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 17
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 03-Sep-2024 11:00
Date Analysis Commenced : 04-Sep-2024
Issue Date : 11-Sep-2024 19:55

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
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia
		Waterloo Metals, Waterloo, Ontario
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia
		Waterloo Inorganics, Waterloo, Ontario
		Waterloo Metals, Waterloo, Ontario
		Vancouver Administration, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia

Page : 2 of 17
Work Order : VA24C2792
Client : Triton Environmental Consultants Ltd.
Project : 11964



General Comments

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

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

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



Laboratory Duplicate (DUP) Report

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

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1631110)											
VA24C2783-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	110	110	0.00%	20%	----
Physical Tests (QC Lot: 1641177)											
FJ2402663-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1641508)											
FJ2402660-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1641514)											
FJ2402660-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	135	146	11	Diff <2x LOR	----
Physical Tests (QC Lot: 1641684)											
KS2403567-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	418	412	1.44%	20%	----
Anions and Nutrients (QC Lot: 1631102)											
VA24C2762-001	Anonymous	Chloride	16887-00-6	E235.Cl	25.0	mg/L	<25.0	<25.0	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1631103)											
VA24C2762-001	Anonymous	Fluoride	16984-48-8	E235.F	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1631104)											
VA24C2762-001	Anonymous	Bromide	24959-67-9	E235.Br-L	2.50	mg/L	<2.50	<2.50	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1631105)											
VA24C2762-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.250	mg/L	<0.250	<0.250	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1631106)											
VA24C2762-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0500	mg/L	<0.0500	<0.0500	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1631107)											
VA24C2762-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	15.0	mg/L	<15.0	<15.0	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641563)											
KS2403556-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.206	0.201	2.51%	20%	----
Anions and Nutrients (QC Lot: 1641564)											
KS2403556-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0119	0.0125	0.0005	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641565)											
VA24C1688-027	Anonymous	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.413	0.438	5.95%	20%	----
Organic / Inorganic Carbon (QC Lot: 1641567)											
VA24C2792-001	SQU US 1	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Total Sulfides (QC Lot: 1635203)											



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Sulfides (QC Lot: 1635203) - continued											
TY2409694-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.0046	0.0044	0.0001	Diff <2x LOR	----
Total Metals (QC Lot: 1634890)											
VA24C2690-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.575	0.571	0.615%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00476	0.00477	0.238%	20%	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00358	0.00359	0.318%	20%	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0907	0.0919	1.28%	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	0.179	0.175	1.99%	20%	----
		Cadmium, total	7440-43-9	E420	0.0000900	mg/L	<0.0000900	<0.0000900	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	148	148	0.363%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000588	0.000590	0.477%	20%	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00051	0.00053	0.00002	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.0430	0.0426	1.14%	20%	----
		Iron, total	7439-89-6	E420	0.030	mg/L	0.421	0.421	0.0911%	20%	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.000278	0.000296	0.000018	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0160	0.0161	0.300%	20%	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	10.5	10.1	4.20%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0161	0.0161	0.0990%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.250	0.253	1.06%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00128	0.00123	0.00005	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.051	0.053	0.001	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	10.8	10.3	4.15%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.0133	0.0133	0.137%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.0474	0.0473	0.373%	20%	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	6.81	6.62	2.84%	20%	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	0.000016	0.000015	0.0000002	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	136	134	1.34%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	2.06	2.02	1.54%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	230	227	0.951%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	0.00040	0.00034	0.00006	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	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1634890) - continued											
VA24C2690-001	Anonymous	Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.0100	mg/L	0.0286	0.0272	0.00140	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	0.00361	0.00364	0.966%	20%	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000562	0.000581	3.26%	20%	----
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00386	0.00379	0.00006	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Total Metals (QC Lot: 1644900)											
FJ2402627-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000174	0.0000182	0.0000008	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1637683)											
VA24C2850-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0168	0.0162	4.09%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00554	0.00551	0.552%	20%	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00247	0.00244	1.15%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0421	0.0408	3.07%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.082	0.081	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000145	0.0000126	0.0000020	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	20.9	21.0	0.596%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.00121	0.00124	2.93%	20%	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0400	0.0380	5.32%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	1.38	1.34	3.32%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0206	0.0202	1.91%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00634	0.00640	0.943%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	9.27	9.22	0.590%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.0118	0.0119	0.817%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000598	0.000576	3.82%	20%	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1637683) - continued											
VA24C2850-002	Anonymous	Silicon, dissolved	7440-21-3	E421	0.050	mg/L	1.14	1.14	0.478%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	21.7	20.6	5.39%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.328	0.329	0.282%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	18.1	17.3	4.54%	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	0.000033	0.000034	0.000001	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	0.00067	0.00067	0.000003	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000285	0.000289	1.65%	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	<0.0010	<0.0010	0	Diff <2x LOR	----
Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----		
Dissolved Metals (QC Lot: 1643056)											
VA24C2709-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1636386)											
VA24C2792-001	SQU US 1	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----



Method Blank (MB) Report

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

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1631110)						
Alkalinity, total (as CaCO3)	---	E290	1	mg/L	<1.0	---
Physical Tests (QCLot: 1641177)						
Solids, total suspended [TSS]	---	E160	3	mg/L	<3.0	---
Physical Tests (QCLot: 1641508)						
Solids, total suspended [TSS]	---	E160	3	mg/L	<3.0	---
Physical Tests (QCLot: 1641514)						
Solids, total dissolved [TDS]	---	E162	10	mg/L	<10	---
Physical Tests (QCLot: 1641684)						
Solids, total dissolved [TDS]	---	E162	10	mg/L	<10	---
Anions and Nutrients (QCLot: 1631102)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	---
Anions and Nutrients (QCLot: 1631103)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	---
Anions and Nutrients (QCLot: 1631104)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	---
Anions and Nutrients (QCLot: 1631105)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1631106)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	---
Anions and Nutrients (QCLot: 1631107)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	---
Anions and Nutrients (QCLot: 1641563)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	---
Anions and Nutrients (QCLot: 1641564)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1641565)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	---
Organic / Inorganic Carbon (QCLot: 1641567)						
Carbon, dissolved organic [DOC]	---	E358-L	0.5	mg/L	<0.50	---
Total Sulfides (QCLot: 1635203)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	---
Total Metals (QCLot: 1634890)						



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1634890) - continued						
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
Total Metals (QCLot: 1634890) - continued						
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	----
Total Metals (QCLot: 1644900)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1637683)						
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
Dissolved Metals (QCLot: 1637683) - continued						
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	----
Dissolved Metals (QCLot: 1643056)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1636386)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----



Laboratory Control Sample (LCS) Report

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

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1631110)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	102	85.0	115	----
Physical Tests (QCLot: 1641177)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	98.0	85.0	115	----
Physical Tests (QCLot: 1641508)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	111	85.0	115	----
Physical Tests (QCLot: 1641514)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	103	85.0	115	----
Physical Tests (QCLot: 1641684)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	107	85.0	115	----
Anions and Nutrients (QCLot: 1631102)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1631103)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	99.9	90.0	110	----
Anions and Nutrients (QCLot: 1631104)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	100	85.0	115	----
Anions and Nutrients (QCLot: 1631105)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1631106)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1631107)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1641563)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	92.8	80.0	120	----
Anions and Nutrients (QCLot: 1641564)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	99.3	85.0	115	----
Anions and Nutrients (QCLot: 1641565)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	98.0	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1641567)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	101	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Sulfides (QCLot: 1635203)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	104	80.0	120	----
Total Metals (QCLot: 1634890)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	108	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	106	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	111	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	112	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	100	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	104	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	94.6	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	107	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	98.1	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	100	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	109	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	105	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	106	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	106	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	99.7	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	110	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	102	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	106	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	102	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	106	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	115	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	93.2	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	115	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	101	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	97.4	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	97.1	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	101	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	100	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	102	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1634890) - continued									
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	102	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	99.8	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	107	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	108	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	109	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Total Metals (QCLot: 1644900)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 1637683)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	94.6	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	97.0	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	102	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	100	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	90.2	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	99.3	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	112	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	97.4	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	96.1	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	94.6	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	95.2	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	95.4	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	94.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	97.5	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	97.4	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	91.7	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	97.1	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	96.4	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	93.9	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	95.4	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	103	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	98.8	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	97.0	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	95.0	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	102	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	87.2	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1637683) - continued									
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	93.8	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	# 78.0	80.0	120	MES
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	96.2	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	99.8	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	94.3	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	95.3	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.5	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	93.2	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	99.5	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	97.3	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	95.4	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	90.0	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	95.8	80.0	120	----
Speciated Metals (QCLot: 1636386)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	103	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					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1631102)										
VA24C2792-001	SQU US 1	Chloride	16887-00-6	E235.Cl	97.8 mg/L	100 mg/L	97.8	75.0	125	----
Anions and Nutrients (QCLot: 1631103)										
VA24C2792-001	SQU US 1	Fluoride	16984-48-8	E235.F	0.989 mg/L	1 mg/L	98.9	75.0	125	----
Anions and Nutrients (QCLot: 1631104)										
VA24C2792-001	SQU US 1	Bromide	24959-67-9	E235.Br-L	0.480 mg/L	0.5 mg/L	96.0	75.0	125	----
Anions and Nutrients (QCLot: 1631105)										
VA24C2792-001	SQU US 1	Nitrate (as N)	14797-55-8	E235.NO3-L	2.43 mg/L	2.5 mg/L	97.2	75.0	125	----
Anions and Nutrients (QCLot: 1631106)										
VA24C2792-001	SQU US 1	Nitrite (as N)	14797-65-0	E235.NO2-L	0.488 mg/L	0.5 mg/L	97.6	75.0	125	----
Anions and Nutrients (QCLot: 1631107)										
VA24C2792-001	SQU US 1	Sulfate (as SO4)	14808-79-8	E235.SO4	99.0 mg/L	100 mg/L	99.0	75.0	125	----
Anions and Nutrients (QCLot: 1641563)										
VA24C1688-027	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0486 mg/L	0.05 mg/L	97.2	70.0	130	----
Anions and Nutrients (QCLot: 1641564)										
VA24C1688-027	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0984 mg/L	0.1 mg/L	98.4	75.0	125	----
Anions and Nutrients (QCLot: 1641565)										
VA24C2780-001	Anonymous	Nitrogen, total	7727-37-9	E366	ND mg/L	----	ND	70.0	130	----
Organic / Inorganic Carbon (QCLot: 1641567)										
VA24C2792-002	SQU DS 1	Carbon, dissolved organic [DOC]	----	E358-L	4.74 mg/L	5 mg/L	94.8	70.0	130	----
Total Sulfides (QCLot: 1635203)										
VA24C2792-001	SQU US 1	Sulfide, total (as S)	18496-25-8	E395	0.191 mg/L	0.2 mg/L	95.4	75.0	125	----
Total Metals (QCLot: 1634890)										
VA24C2690-002	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	----	ND	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0197 mg/L	0.02 mg/L	98.6	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0204 mg/L	0.02 mg/L	102	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0356 mg/L	0.04 mg/L	89.1	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00948 mg/L	0.01 mg/L	94.8	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00393 mg/L	0.004 mg/L	98.2	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00980 mg/L	0.01 mg/L	98.0	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0392 mg/L	0.04 mg/L	98.1	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
Total Metals (QCLot: 1634890) - continued										
VA24C2690-002	Anonymous	Cobalt, total	7440-48-4	E420	0.0188 mg/L	0.02 mg/L	94.3	70.0	130	----
		Copper, total	7440-50-8	E420	ND mg/L	----	ND	70.0	130	----
		Iron, total	7439-89-6	E420	1.91 mg/L	2 mg/L	95.5	70.0	130	----
		Lead, total	7439-92-1	E420	0.0186 mg/L	0.02 mg/L	93.1	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0824 mg/L	0.1 mg/L	82.4	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0179 mg/L	0.02 mg/L	89.4	70.0	130	----
		Molybdenum, total	7439-98-7	E420	ND mg/L	----	ND	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0371 mg/L	0.04 mg/L	92.8	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.77 mg/L	10 mg/L	97.7	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0192 mg/L	0.02 mg/L	95.8	70.0	130	----
		Selenium, total	7782-49-2	E420	ND mg/L	----	ND	70.0	130	----
		Silicon, total	7440-21-3	E420	9.47 mg/L	10 mg/L	94.7	70.0	130	----
		Silver, total	7440-22-4	E420	0.00375 mg/L	0.004 mg/L	93.7	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	ND mg/L	----	ND	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0393 mg/L	0.04 mg/L	98.3	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00357 mg/L	0.004 mg/L	89.3	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0136 mg/L	0.02 mg/L	67.8	70.0	130	MES
		Tin, total	7440-31-5	E420	0.0196 mg/L	0.02 mg/L	97.9	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0386 mg/L	0.04 mg/L	96.4	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0187 mg/L	0.02 mg/L	93.6	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00394 mg/L	0.004 mg/L	98.5	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0991 mg/L	0.1 mg/L	99.1	70.0	130	----
		Zinc, total	7440-66-6	E420	0.371 mg/L	0.4 mg/L	92.6	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0394 mg/L	0.04 mg/L	98.4	70.0	130	----
Total Metals (QCLot: 1644900)										
FJ2402627-002	Anonymous	Mercury, total	7439-97-6	E508	0.0000981 mg/L	0 mg/L	98.1	70.0	130	----
Dissolved Metals (QCLot: 1637683)										
VA24C2853-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.187 mg/L	0.2 mg/L	93.6	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0184 mg/L	0.02 mg/L	91.8	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0201 mg/L	0.02 mg/L	101	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0358 mg/L	0.04 mg/L	89.5	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00922 mg/L	0.01 mg/L	92.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.113 mg/L	0.1 mg/L	113	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00390 mg/L	0.004 mg/L	97.4	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00939 mg/L	0.01 mg/L	93.9	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0373 mg/L	0.04 mg/L	93.3	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0188 mg/L	0.02 mg/L	93.9	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
Dissolved Metals (QCLot: 1637683) - continued										
VA24C2853-001	Anonymous	Copper, dissolved	7440-50-8	E421	0.0186 mg/L	0.02 mg/L	93.1	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.88 mg/L	2 mg/L	93.9	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0192 mg/L	0.02 mg/L	96.2	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0872 mg/L	0.1 mg/L	87.2	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	0.0186 mg/L	0.02 mg/L	93.2	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0377 mg/L	0.04 mg/L	94.2	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	9.86 mg/L	10 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	0.0186 mg/L	0.02 mg/L	93.2	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0387 mg/L	0.04 mg/L	96.7	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.53 mg/L	10 mg/L	95.3	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00367 mg/L	0.004 mg/L	91.8	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	18.8 mg/L	20 mg/L	94.0	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0379 mg/L	0.04 mg/L	94.7	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00379 mg/L	0.004 mg/L	94.7	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0173 mg/L	0.02 mg/L	86.5	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0188 mg/L	0.02 mg/L	94.2	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0375 mg/L	0.04 mg/L	93.7	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0187 mg/L	0.02 mg/L	93.4	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00398 mg/L	0.004 mg/L	99.5	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0964 mg/L	0.1 mg/L	96.4	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.386 mg/L	0.4 mg/L	96.5	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0379 mg/L	0.04 mg/L	94.8	70.0	130	----
Dissolved Metals (QCLot: 1643056)										
VA24C2792-001	SQU US 1	Mercury, dissolved	7439-97-6	E509	0.0000942 mg/L	0 mg/L	94.2	70.0	130	----
Speciated Metals (QCLot: 1636386)										
VA24C2792-001	SQU US 1	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0416 mg/L	0.04 mg/L	104	70.0	130	----

Qualifiers

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).



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Invoice To				Email 3				<table border="1"> <thead> <tr> <th colspan="12"></th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">Sample is hazardous (please provide further details)</th> <th rowspan="2">NUMBER OF CONTAINERS</th> </tr> <tr> <th>F</th><th></th><th></th><th></th><th></th><th></th><th>P</th><th>P</th><th></th><th></th><th>F/P</th><th></th> </tr> </thead> <tbody> <tr> <td>Total metals + mercury</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Dissolved metals + mercury</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total hexavalent chromium</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total trivalent chromium</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TDS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Nutrients (ammonia, ammonium, total nitrogen, total phosphorus)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total sulfide (low) (as H2S)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Un-ionized Sulfide (low)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Anions scan (Br, Cl, F, NO2, NO3, SO4)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>General parameters (alkalinity)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>DOC</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>																				SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS	F						P	P			F/P		Total metals + mercury																			Dissolved metals + mercury																			Total hexavalent chromium																			Total trivalent chromium																			TSS																			TDS																			Nutrients (ammonia, ammonium, total nitrogen, total phosphorus)																			Total sulfide (low) (as H2S)																			Un-ionized Sulfide (low)																			Anions scan (Br, Cl, F, NO2, NO3, SO4)																			General parameters (alkalinity)																			DOC																		
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Environmental Division
Vancouver
Work Order Reference
VA24C2792

Telephone: +1 604 253 4188



Drinking Water (DW) Samples¹ (client use)			Special Instructions / Spec		
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			Triton Project # 11964		
Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Date: <u>03 Sept</u>	Time: <u>10:59</u>	Received by:	Date: <u>3rd Sept</u>	Time: <u>11 AM</u>	Received by:
			SAMPLE CONDITION AS RECEIVED (lab use only)		
Frozen <input type="checkbox"/>			SIF Observations: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Ice Packs <input checked="" type="checkbox"/> Ice Cubes <input type="checkbox"/>			Custody seal intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Cooling Initiated <input checked="" type="checkbox"/>			<u>CN/A</u>		
INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			<u>12 °C</u>		



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix B	B-4

BCR Site Receiving Environment Field Notes and Logs

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	09/03/2024	Location:	BC Rail Site
Triton QP:	Lily Chycoski	Latitude/Longitude:	
Temperature(c):	Low 12 High 23	Permit:	AE 111824
Weather Conditions:	Overcast	Ground Conditions:	Dry

Observations

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

Notes: Turbidity is in FNRU due to high level

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?	Yes	Photo of COC with Lab Signature?	Yes
Describe Logger Maintenance			
Cleaned sensors			

Photos



Photo: 1
Location: SQU DS 1
Description: US view



Photo: 2
Location: SQU DS 1
Description: Across view

Photos



Photo: 3
Location: SQU DS 1
Description: DS view

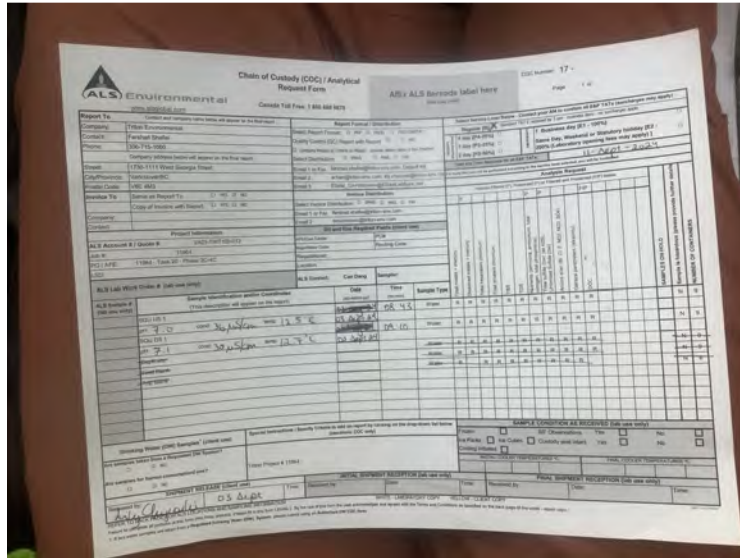


Photo: 4
Location: SQU DS 1
Description: Lab COC

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-3-Chycoski-0727E

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge	
Inspection Date:	09/03/2024	Location:	BC Rail Site	
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.726866	-123.163912
Temperature(c):	Low 12	High 23	Permit:	AE 111824
Weather Conditions:	Overcast		Ground Conditions:	Dry

Observations

Time: 08:43:00 **Flow Volume (visual):** moderate

Notes:

Odour Detected?: No **Notes:**

Unusual Colour?: No **Notes:**

Unusual Observations?: No **Notes:**

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

Samples Collected - Parameters

Total Metals + Mercury	Yes	General Parameters (Alkalinity)	Yes	Other Sample:
Dissolved Metals + Mercury	Yes	Total Sulfide, Unionized Sulfide	Yes	
TSS	Yes	Anions	Yes	
TDS	Yes	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?	Yes	Photo of COC with Lab Signature?	Yes
--------------------------------------	-----	---	-----

Describe Logger Maintenance

Cleaned logger sensors.

Photos



Photo: 1
Location: SQU US 1
Description: US view



Photo: 2
Location: SQU US 1
Description: Across view

Photos



Photo: 3
Location: SQU US 1
Description: DS view

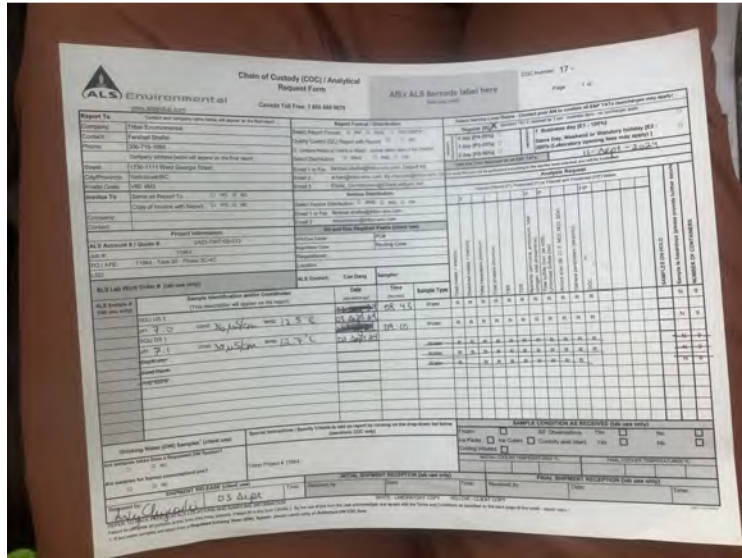


Photo: 4
Location: SQU US 1
Description: Lab COC



2024-9-3-Chycoski-0727E

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes


Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
	Report #	24
	Appendix C	C-1

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



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix C	C-2

Woodfibre Site Sample Analysis



RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 4800 Triton Environmental Consultants Ltd., Vancouver Job Number: C469021
Client Project Name & Number: 11964-Task 40-phase 3C-4C

Test Result:
96 hrs LC50 % vol/vol (95% CL): >100 (N/A) Statistical Method: Visual

Sample Name : WLNG EOP
Description: clear and colourless
Sample Number: CUR320-01
Sample Collected: Sep 04, 2024 10:02 AM Sampling Method : N/A Site Collection: N/A
Sample Collected By: N/A Volume Received: 4 x ECO10 Avg Temp Arrival: 11 °C Storage: 2-6°C
Sample Received: Sep 04, 2024 04:58 PM pH: 7.4 Dissolved Oxygen: 10.4 mg/L
Analysis Start : Sep 05, 2024 03:25 PM Temperature : 15 °C Sample Conductance: 149 µS/cm

Table with 11 columns: Concentration, Temperature (°C), Temperature (°C), Dissolved Oxygen (mg/L), Dissolved Oxygen (mg/L), pH, pH, Conductivity (uS/cm), Mortality (#), Mortality (%), Atypical Behaviour (#). Rows show data for concentrations 0, 6.25, 12.5, 25, 50, and 100.

Comments : All fish appeared and behaved normally at 24 hours, 48 hours, 72 hours, and 96 hours into testing.

Culture/Control/Dilution Water Burnaby Municipal Dechlorinated Water
Hardness: 24 mg/L CaCO3 Other parameters available on request.

Test Conditions Test concentration : 0,6.25,12.5,25,50,100 (% vol/vol)
Organisms per Vessel : 10 Test Temperature : 15 ± 1 °C Solution Depth : >15 cm
Total # of Organisms Used : 60 Pre-aeration Time : 120 min. Rate of Aeration 6.5±1 mL/(min*L)
Test Volume : 18 L Vessel Volume : 20L Test pH Adjusted: No
Loading Density : 0.3 g/L Photoperiod : 16:8 (light: dark)

Test Organism : Rainbow Trout (Oncorhynchus mykiss) Source : Lyndon Fish Hatcheries Inc.
Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.6 ± 0.2 g Length (Mean) +- SD : 4.35 ± 0.41 cm
Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.5 – 1.0 g Length (Range) : 4.00 – 5.30 cm
Culture Photoperiod : 16:8 (light: dark) % Mortality within 7 days : 0%
Feeding rate and frequency : daily: 1-5% biomass of trout. Acclimation Time: >14 days

Reference chemical: Zinc Test Date: Aug 18, 2024
Test Endpoint 96 hrs LC50 (95% confidence interval) : 0.21 (0.16, 0.28)mg/L Statistical Method : Probit
Historical Mean LC50 (warning limits) : 0.18 (0.11, 0.29) mg/L Concentration : 0,0.04,0.08,0.16,0.32,0.64 mg/L

Test Method BV Lab’s BBY2SOP-00004 is based on the latest version of EPS 1/RM9 and EPS 1 /RM13.
Method Deviations : None.

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Guilherme De Faria Silva Naves, Melanie Mazziotti, Ryan Colman

Handwritten signature: K. Tamaki

Verified By : Kimberly Tamaki, Scientist, Ecotoxicology Date: Sep 12, 2024 04:01 PM

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Table of Contents:

1. Executive Summary and Notes
2. Discharge Parameter Summary
3. WTP Calibration Log

Appendices:

- Appendix A- WTP Data Log
- Appendix B- Photos

1. Executive Summary and Field Notes:

On August 30th, the temperature probe in the Water Treatment Plant (WTP) stopped functioning. FKM responded by manually checking the temperature with a YSI device and monitoring data from the downstream sondes, which are located in Table 3. The new temperature probe was installed on September 7th. The discharged water consistently remained within regulatory guidelines. The turbidity as measured in NTUs met both short-term and long-term standards, never exceeding 2 NTU or 8 NTU above background levels. Additionally, other key parameters, including pH, salinity, conductivity, and oxidation-reduction potential (ORP), were monitored throughout the discharge process and remained well within the prescribed limits.

All relevant parameters were measured using YSI instruments and WTP probes. The total discharge volume up to September 2nd was 3098 m³.

Daily Volume Summary:
Table 1. Discharge Volumes Daily Summary

Date	Location	Volume (m3)	Comments
September 2	WoodFibre (WF)	177	N/A
September 3	WF	219	N/A
September 4	WF	290	N/A
September 5	WF	227	N/A
September 6	WF	180	N/A
September 7	WF	123	N/A
September 8	WF	134	N/A
Total		1343	N/A

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

2. Discharge Parameter Summary:

Table 2. Discharge Parameter Summary

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	0:45:00	7.2	0.374	1.5	3,098	106.3	292
9/2/2024	1:00:00	7.3	0.363	1	3,098	106.3	292
9/2/2024	1:15:00	7.2	0.355	0.4	3,098	106.3	292
9/2/2024	1:30:00	6.9	0.367	1.5	3,098	106.3	292
9/2/2024	9:00:00	7.2	0.397	3.2	3,208	106.3	300
9/2/2024	9:15:00	7	0.401	3.3	3,208	106.3	300
9/2/2024	9:30:00	7.1	0.480	6	3,208	106.3	300
9/2/2024	9:45:00	7.3	0.571	3.5	3,208	106.3	300
9/2/2024	10:15:00	7.1	0.552	3.4	3,208	106.3	300
9/2/2024	10:30:00	7.3	0.605	3.2	3,217	106.3	300
9/2/2024	10:45:00	7	0.544	3.5	3,224	106.3	300
9/2/2024	11:00:00	7.1	0.507	3.6	3,231	106.3	300
9/2/2024	11:15:00	7.3	0.495	2.6	3,233	106.3	300
9/2/2024	11:30:00	7.1	0.507	2.9	3,233	106.3	300
9/2/2024	11:45:00	7.1	0.480	4.5	3,233	106.3	300
9/2/2024	12:00:00	7.2	0.401	3.8	3,233	106.3	302
9/2/2024	12:15:00	7.2	0.389	3.2	3,233	106.3	301
9/2/2024	12:30:00	6.9	0.370	3.3	3,233	106.3	300
9/2/2024	12:45:00	6.9	0.295	4.5	3,233	106.3	300
9/2/2024	14:45:00	7.3	0.809	4.6	3,233	106.3	298
9/2/2024	15:00:00	7.1	0.446	1.9	3,233	106.3	297
9/2/2024	15:15:00	7.1	0.442	0	3,233	106.3	298
9/2/2024	15:30:00	7.2	0.435	0	3,233	106.3	300
9/3/2024	2:30:00	7.2	0.370	0	3,302	106.3	297
9/3/2024	2:45:00	6.9	0.378	0	3,302	106.3	296
9/3/2024	3:00:00	6.9	0.367	0	3,302	106.3	297
9/3/2024	3:15:00	7.1	0.359	0	3,302	106.3	296
9/3/2024	3:30:00	7.3	0.348	0	3,302	106.3	297
9/3/2024	3:45:00	7.1	0.359	0	3,302	106.3	297

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	4:00:00	6.8	0.359	0	3,302	106.3	297
9/3/2024	4:15:00	7	0.359	0	3,302	106.3	297
9/3/2024	4:30:00	7.1	0.359	0	3,302	106.3	296
9/3/2024	4:45:00	7.3	0.355	0	3,302	106.3	297
9/3/2024	6:15:00	6.8	0.363	1.4	3,302	106.3	293
9/3/2024	6:30:00	7	0.363	3	3,302	106.3	293
9/3/2024	14:00:00	7.3	0.318	4.7	3,375	106.3	292
9/3/2024	14:15:00	7.2	0.325	3.5	3,379	106.3	292
9/3/2024	14:30:00	6.9	0.276	3.4	3,383	106.3	292
9/3/2024	14:45:00	7	0.272	2.4	3,387	106.3	290
9/3/2024	15:00:00	7.1	0.310	4.4	3,392	106.3	290
9/3/2024	15:15:00	7.2	0.280	1.1	3,396	106.3	290
9/3/2024	15:45:00	7.2	0.276	0	3,404	106.3	291
9/3/2024	16:00:00	6.9	0.268	0	3,408	106.3	289
9/3/2024	16:15:00	6.9	0.302	1.4	3,412	106.3	289
9/3/2024	16:45:00	7.2	0.280	0.4	3,420	106.3	289
9/3/2024	17:00:00	7.3	0.284	0	3,424	106.3	291
9/3/2024	17:15:00	7.2	0.280	0	3,428	106.3	288
9/3/2024	17:30:00	6.9	0.280	0	3,432	106.3	289
9/3/2024	17:45:00	6.9	0.276	0	3,436	106.3	289
9/3/2024	18:00:00	7	0.276	0	3,440	106.3	289
9/3/2024	18:15:00	7.1	0.276	0	3,445	106.3	287
9/3/2024	18:30:00	7.2	0.276	0	3,449	106.3	287
9/3/2024	18:45:00	7.3	0.272	0	3,453	106.3	287
9/3/2024	19:00:00	7.1	0.268	0	3,457	106.3	287
9/3/2024	19:15:00	6.9	0.268	0	3,459	106.3	287
9/3/2024	19:30:00	6.9	0.268	0	3,459	106.3	287
9/3/2024	19:45:00	7	0.268	0	3,459	106.3	287
9/3/2024	20:00:00	7.1	0.268	0	3,459	106.3	287
9/3/2024	20:15:00	7.2	0.265	0	3,459	106.3	289
9/3/2024	20:30:00	7.3	0.268	0	3,459	106.3	288
9/3/2024	20:45:00	7.2	0.261	0	3,459	106.3	288
9/3/2024	21:00:00	6.9	0.265	0	3,459	106.3	288

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	21:15:00	6.9	0.272	0	3,459	106.3	288
9/3/2024	21:30:00	7	0.265	0	3,459	106.3	288
9/3/2024	21:45:00	7.1	0.268	0	3,459	106.3	288
9/3/2024	22:00:00	7.2	0.261	0	3,459	106.3	288
9/3/2024	22:15:00	7.3	0.261	0	3,462	106.3	289
9/3/2024	22:30:00	7.3	0.261	0.3	3,468	106.3	289
9/3/2024	22:45:00	7	0.261	0	3,474	106.3	288
9/3/2024	23:00:00	6.9	0.261	0	3,480	106.3	288
9/3/2024	23:15:00	6.9	0.257	0	3,486	106.3	287
9/3/2024	23:30:00	7	0.249	0	3,491	106.3	287
9/4/2024	2:45:00	7.1	0.389	0	3,505	106.3	284
9/4/2024	3:00:00	7.3	0.386	0	3,511	106.3	284
9/4/2024	3:15:00	7.1	0.378	0	3,517	106.3	284
9/4/2024	3:30:00	6.9	0.389	0	3,523	106.3	286
9/4/2024	3:45:00	7.1	0.374	0	3,529	106.3	285
9/4/2024	4:00:00	7.3	0.374	0	3,535	106.3	284
9/4/2024	7:00:00	7.3	0.408	0.5	3,571	106.3	286
9/4/2024	7:15:00	6.9	0.397	0.8	3,574	106.3	285
9/4/2024	7:30:00	6.9	0.389	0	3,574	106.3	286
9/4/2024	7:45:00	7.1	0.397	0	3,574	106.3	286
9/4/2024	8:00:00	7.3	0.401	0	3,574	106.3	284
9/4/2024	8:15:00	7.2	0.401	0	3,574	106.3	284
9/4/2024	8:30:00	6.9	0.404	0	3,574	106.3	284
9/4/2024	8:45:00	7	0.393	0	3,574	106.3	284
9/4/2024	10:15:00	7.3	0.393	0	3,574	106.3	281
9/4/2024	10:45:00	6.9	0.393	0	3,574	106.3	283
9/4/2024	11:00:00	7	0.344	0.8	3,574	106.3	282
9/4/2024	11:15:00	7.2	0.340	0	3,574	106.3	282
9/4/2024	11:30:00	7.3	0.344	0	3,574	106.3	282
9/4/2024	19:30:00	6.9	0.325	3.5	3,641	106.3	284
9/4/2024	19:45:00	7	0.325	3.2	3,646	106.3	284
9/4/2024	20:00:00	7.1	0.321	3.4	3,650	106.3	285
9/4/2024	20:15:00	7.2	0.325	3.8	3,655	106.3	286

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	20:30:00	7.3	0.321	3.8	3,659	106.3	284
9/4/2024	20:45:00	7	0.325	3.8	3,664	106.3	284
9/4/2024	21:00:00	6.9	0.321	3.8	3,669	106.3	284
9/4/2024	21:15:00	7	0.318	3.6	3,674	106.3	284
9/4/2024	21:30:00	7.1	0.318	3.4	3,678	106.3	284
9/4/2024	21:45:00	7.2	0.314	3.5	3,683	106.3	284
9/4/2024	22:00:00	7.2	0.310	3.3	3,688	106.3	284
9/4/2024	22:15:00	6.9	0.318	4.1	3,693	106.3	284
9/4/2024	22:30:00	6.9	0.314	4.2	3,697	106.3	283
9/5/2024	0:00:00	7.3	0.329	0.7	3,725	106.3	284
9/5/2024	0:15:00	7.4	0.325	0.6	3,730	106.3	285
9/5/2024	0:30:00	7.4	0.306	0.6	3,734	106.3	285
9/5/2024	0:45:00	7.4	0.314	0.4	3,739	106.3	285
9/5/2024	1:00:00	7.4	0.302	0.3	3,739	106.3	284
9/5/2024	1:15:00	7.4	0.306	0.4	3,739	106.3	285
9/5/2024	1:30:00	7.4	0.306	0.4	3,739	106.3	285
9/5/2024	1:45:00	7.4	0.314	0.5	3,739	106.3	285
9/5/2024	2:00:00	7.4	0.310	0.4	3,739	106.3	285
9/5/2024	2:15:00	7.5	0.302	0.4	3,739	106.3	284
9/5/2024	2:30:00	7.5	0.306	0.7	3,739	106.3	284
9/5/2024	2:45:00	7.5	0.302	0.3	3,739	106.3	284
9/5/2024	3:00:00	7.5	0.295	0.5	3,739	106.3	285
9/5/2024	3:15:00	7.5	0.295	0.4	3,739	106.3	283
9/5/2024	3:30:00	7.5	0.299	0.4	3,744	106.3	283
9/5/2024	3:45:00	7.5	0.302	0.3	3,744	106.3	283
9/5/2024	4:00:00	7.5	0.302	0.3	3,744	106.3	283
9/5/2024	4:15:00	7.5	0.295	0.3	3,744	106.3	283
9/5/2024	4:30:00	7.5	0.295	0.3	3,744	106.3	283
9/5/2024	4:45:00	7.6	0.299	0.2	3,744	106.3	283
9/5/2024	5:00:00	7.6	0.291	0.3	3,744	106.3	281
9/5/2024	5:15:00	7.6	0.291	0.4	3,744	106.3	282
9/5/2024	10:00:00	6.9	0.265	4.5	3,778	106.3	278
9/5/2024	10:15:00	7	0.231	4	3,782	106.3	277

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	10:30:00	7.1	0.234	4.1	3,787	106.3	277
9/5/2024	10:45:00	7.2	0.238	3.8	3,792	106.3	277
9/5/2024	11:00:00	7.2	0.238	4.1	3,797	106.3	277
9/5/2024	11:15:00	7.3	0.227	4.5	3,802	106.3	277
9/5/2024	14:00:00	7.2	0.344	2.6	3,812	106.3	275
9/5/2024	14:15:00	7.2	0.336	1.5	3,812	106.3	275
9/5/2024	14:30:00	7	0.329	1.6	3,815	106.3	275
9/5/2024	14:45:00	7	0.340	2	3,822	106.3	275
9/5/2024	15:00:00	7.1	0.336	2.3	3,829	106.3	275
9/5/2024	15:15:00	7.2	0.329	2.4	3,836	106.3	275
9/5/2024	15:30:00	7.3	0.333	1.7	3,843	106.3	275
9/5/2024	15:45:00	7	0.333	1.5	3,849	106.3	275
9/5/2024	16:00:00	7	0.321	0.9	3,854	106.3	273
9/5/2024	16:15:00	7.1	0.325	3.8	3,854	106.3	274
9/5/2024	19:00:00	7	0.461	0.3	3,854	106.3	274
9/5/2024	19:15:00	7.1	0.469	1.3	3,854	106.3	274
9/5/2024	19:30:00	7.2	0.457	0.2	3,641	106.3	274
9/5/2024	19:45:00	7.2	0.457	0.7	3,646	106.3	276
9/5/2024	20:00:00	7.2	0.450	0.4	3,650	106.3	277
9/5/2024	20:15:00	7.2	0.450	0.2	3,655	106.3	276
9/5/2024	0:00:00	7.3	0.329	0.7	3,725	106.3	284
9/5/2024	0:15:00	7.4	0.325	0.6	3,730	106.3	285
9/5/2024	0:30:00	7.4	0.306	0.6	3,734	106.3	285
9/5/2024	0:45:00	7.4	0.314	0.4	3,739	106.3	285
9/5/2024	1:00:00	7.4	0.302	0.3	3,739	106.3	284
9/5/2024	1:15:00	7.4	0.306	0.4	3,739	106.3	285
9/5/2024	1:30:00	7.4	0.306	0.4	3,739	106.3	285
9/5/2024	1:45:00	7.4	0.314	0.5	3,739	106.3	285
9/5/2024	2:00:00	7.4	0.310	0.4	3,739	106.3	285
9/5/2024	2:15:00	7.5	0.302	0.4	3,739	106.3	284
9/5/2024	2:30:00	7.5	0.306	0.7	3,739	106.3	284
9/5/2024	2:45:00	7.5	0.302	0.3	3,739	106.3	284
9/5/2024	3:00:00	7.5	0.295	0.5	3,739	106.3	285

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	3:15:00	7.5	0.295	0.4	3,739	106.3	283
9/5/2024	3:30:00	7.5	0.299	0.4	3,744	106.3	283
9/5/2024	3:45:00	7.5	0.302	0.3	3,744	106.3	283
9/5/2024	4:00:00	7.5	0.302	0.3	3,744	106.3	283
9/5/2024	4:15:00	7.5	0.295	0.3	3,744	106.3	283
9/5/2024	4:30:00	7.5	0.295	0.3	3,744	106.3	283
9/5/2024	4:45:00	7.6	0.299	0.2	3,744	106.3	283
9/5/2024	5:00:00	7.6	0.291	0.3	3,744	106.3	281
9/5/2024	5:15:00	7.6	0.291	0.4	3,744	106.3	282
9/5/2024	10:00:00	6.9	0.265	4.5	3,778	106.3	278
9/5/2024	10:15:00	7	0.231	4	3,782	106.3	277
9/5/2024	10:30:00	7.1	0.234	4.1	3,787	106.3	277
9/5/2024	10:45:00	7.2	0.238	3.8	3,792	106.3	277
9/5/2024	11:00:00	7.2	0.238	4.1	3,797	106.3	277
9/5/2024	11:15:00	7.3	0.227	4.5	3,802	106.3	277
9/5/2024	14:00:00	7.2	0.344	2.6	3,812	106.3	275
9/5/2024	14:15:00	7.2	0.336	1.5	3,812	106.3	275
9/5/2024	14:30:00	7	0.329	1.6	3,815	106.3	275
9/5/2024	14:45:00	7	0.340	2	3,822	106.3	275
9/5/2024	15:00:00	7.1	0.336	2.3	3,829	106.3	275
9/5/2024	15:15:00	7.2	0.329	2.4	3,836	106.3	275
9/5/2024	15:30:00	7.3	0.333	1.7	3,843	106.3	275
9/5/2024	15:45:00	7	0.333	1.5	3,849	106.3	275
9/5/2024	16:00:00	7	0.321	0.9	3,854	106.3	273
9/5/2024	16:15:00	7.1	0.325	3.8	3,854	106.3	274
9/5/2024	19:00:00	7	0.461	0.3	3,854	106.3	274
9/5/2024	19:15:00	7.1	0.469	1.3	3,854	106.3	274
9/5/2024	19:30:00	7.2	0.457	0.2	3,854	106.3	274
9/5/2024	19:45:00	7.2	0.457	0.7	3,854	106.3	276
9/5/2024	20:00:00	7.2	0.450	0.4	3,854	106.3	277
9/5/2024	20:15:00	7.2	0.450	0.2	3,854	106.3	276
9/6/2024	1:45:00	7.5	0.314	0.3	3,914	106.3	279
9/6/2024	2:00:00	7.5	0.321	0.3	3,914	106.3	278

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	2:15:00	7.5	0.318	2.6	3,914	106.3	280
9/6/2024	2:30:00	7.5	0.314	2.2	3,917	106.3	279
9/6/2024	2:45:00	7.6	0.310	1.4	3,922	106.3	279
9/6/2024	3:00:00	7.6	0.299	1.7	3,927	106.3	278
9/6/2024	3:15:00	7.6	0.310	1.5	3,932	106.3	278
9/6/2024	3:30:00	7.6	0.314	0.4	3,936	106.3	279
9/6/2024	3:45:00	7.6	0.302	0.4	3,941	106.3	278
9/6/2024	4:00:00	7.6	0.302	0.3	3,946	106.3	280
9/6/2024	4:15:00	7.6	0.306	1	3,951	106.3	279
9/6/2024	4:30:00	7.6	0.302	1.7	3,955	106.3	278
9/6/2024	7:00:00	7.5	0.306	0.7	3,958	106.3	278
9/6/2024	7:15:00	7.5	0.302	0.6	3,958	106.3	278
9/6/2024	7:30:00	7.5	0.310	0.7	3,958	106.3	276
9/6/2024	7:45:00	7.5	0.306	0.9	3,958	106.3	275
9/6/2024	8:00:00	7.5	0.306	1.9	3,958	106.3	274
9/6/2024	8:15:00	7.6	0.302	1.3	3,958	106.3	274
9/6/2024	8:30:00	7.6	0.299	0.9	3,958	106.3	274
9/6/2024	8:45:00	7.6	0.299	0.8	3,958	106.3	275
9/6/2024	9:00:00	7.6	0.302	2.1	3,958	106.3	275
9/6/2024	16:00:00	7.2	0.314	3.1	3,971	106.3	272
9/6/2024	16:15:00	7.2	0.261	3.4	3,971	106.3	272
9/6/2024	22:15:00	7.4	0.268	0.4	4,026	106.3	272
9/6/2024	22:30:00	7.4	0.265	0	4,026	106.3	271
9/6/2024	22:45:00	7.4	0.265	0	4,026	106.3	270
9/6/2024	23:00:00	7.4	0.268	0.6	4,026	106.3	270
9/6/2024	23:15:00	7.4	0.261	0	4,026	106.3	268
9/6/2024	23:30:00	7.4	0.261	0	4,026	106.3	268
9/6/2024	23:45:00	7.4	0.261	0	4,028	106.3	268
9/7/2024	0:00:00	7.4	0.261	0	4,031	106.3	267
9/7/2024	0:15:00	7.4	0.253	0	4,035	106.3	267
9/7/2024	0:30:00	7.4	0.253	0.6	4,039	106.3	267
9/7/2024	0:45:00	7.4	0.257	0.7	4,044	106.3	267
9/7/2024	1:00:00	7.4	0.253	1.3	4,048	106.3	267

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	1:15:00	7.4	0.257	2	4,052	106.3	267
9/7/2024	1:30:00	7.5	0.253	4.1	4,056	106.3	267
9/7/2024	4:15:00	7.1	0.272	2.3	4,063	106.3	267
9/7/2024	4:30:00	7.2	0.261	1.5	4,063	106.3	268
9/7/2024	4:45:00	7.3	0.265	1.2	4,063	106.3	268
9/7/2024	5:00:00	7.1	0.261	0.8	4,063	106.3	268
9/7/2024	5:15:00	6.7	0.261	0.6	4,063	106.3	268
9/7/2024	5:30:00	6.7	0.261	0.7	4,063	106.3	274
9/7/2024	5:45:00	6.9	0.261	1.3	4,063	106.3	273
9/7/2024	6:00:00	7	0.261	2.3	4,063	106.3	273
9/7/2024	6:15:00	7.1	0.265	3.9	4,063	106.3	277
9/7/2024	12:30:00	6.9	0.321	1.4	4,107	106.3	273
9/7/2024	12:45:00	7	0.318	0.7	4,107	106.3	273
9/7/2024	13:00:00	7.1	0.302	0.2	4,107	106.3	273
9/7/2024	13:15:00	7.1	0.318	0.1	4,107	106.3	273
9/7/2024	13:30:00	7.2	0.314	0	4,107	106.3	272
9/7/2024	13:45:00	7.2	0.302	0	4,107	106.3	272
9/7/2024	14:00:00	7.2	0.299	0	4,107	106.3	272
9/7/2024	14:15:00	7.2	0.310	1	4,107	106.3	273
9/7/2024	14:30:00	7.2	0.310	3.3	4,107	106.3	273
9/7/2024	22:45:00	7.4	0.295	1.2	4,152	18.8	271
9/7/2024	23:00:00	7.4	0.291	0.7	4,152	18.9	271
9/7/2024	23:15:00	7.4	0.291	1.3	4,152	18.8	270
9/7/2024	23:30:00	7.5	0.291	0.5	4,157	18.8	271
9/7/2024	23:45:00	7.5	0.291	0.3	4,162	18.8	271
9/8/2024	0:00:00	7.5	0.287	0.3	4,167	18.8	269
9/8/2024	0:15:00	7.5	0.287	0.5	4,171	18.7	269
9/8/2024	0:30:00	7.5	0.284	0.9	4,176	18.7	269
9/8/2024	0:45:00	7.5	0.287	1.4	4,181	18.6	269
9/8/2024	1:00:00	7.5	0.284	1.6	4,186	18.6	269
9/8/2024	1:15:00	7.5	0.284	2.4	4,190	18.5	269
9/8/2024	3:45:00	7.4	0.302	1.9	4,221	18.5	262
9/8/2024	4:00:00	7.4	0.306	0.8	4,221	18.6	262

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Discharge Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	4:15:00	7.5	0.310	0.8	4,221	18.6	264
9/8/2024	4:30:00	7.5	0.310	0.7	4,221	18.7	265
9/8/2024	4:45:00	7.5	0.310	0.6	4,221	18.6	267
9/8/2024	5:00:00	7.5	0.310	0.4	4,221	18.6	267
9/8/2024	5:15:00	7.5	0.310	0.3	4,221	18.6	267
9/8/2024	5:30:00	7.5	0.310	0.4	4,221	18.6	267
9/8/2024	5:45:00	7.5	0.306	0.2	4,221	18.5	267
9/8/2024	6:00:00	7.5	0.310	0.2	4,221	18.5	267
9/8/2024	6:15:00	7.4	0.306	0.1	4,224	18.4	267
9/8/2024	6:30:00	7.1	0.302	0.3	4,228	18.4	267
9/8/2024	6:45:00	7	0.310	0.3	4,232	18.4	270
9/8/2024	7:00:00	7.1	0.306	1.5	4,236	18.3	272
9/8/2024	7:15:00	7.2	0.302	3.6	4,240	18.3	272
9/8/2024	10:45:00	7	0.257	1.2	4,269	18.3	269
9/8/2024	11:00:00	7	0.261	0.2	4,273	18.4	271
9/8/2024	11:15:00	7.1	0.257	0	4,277	18.5	267
9/8/2024	11:30:00	7.2	0.253	0	4,279	18.6	264
9/8/2024	11:45:00	7.2	0.249	0	4,279	18.7	261
9/8/2024	12:00:00	7.3	0.276	0.3	4,279	18.8	261
9/8/2024	12:15:00	7.1	0.321	1.2	4,279	18.9	264
9/8/2024	12:30:00	7	0.321	1.3	4,279	18.9	269
9/8/2024	14:30:00	7.2	0.257	3.4	4,279	19.5	258
9/8/2024	14:45:00	7	0.253	1.4	4,279	19.5	261
9/8/2024	15:00:00	7	0.253	1.1	4,279	19.6	265
9/8/2024	15:15:00	7.1	0.253	0.8	4,279	19.7	264
9/8/2024	15:30:00	7.2	0.253	3.4	4,279	19.8	261
9/8/2024	15:45:00	7.3	0.253	2.7	4,279	19.9	259

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Table 3. In-Situ Parameters

Date	Time	Temperature (°C)	DO (mg/L)	Conductivity (uS/cm)	Salinity (ppt)	ORP (mV)
8/02/2024	04:48:12AM	16.7	8.55	141.0	0.07	277.4
8/03/2024	02:28:29AM	16.4	8.87	141.1	0.07	270.2
8/04/2024	02:41:01AM	16.4	8.70	145.0	0.07	265.4
8/05/2024	01:43:12PM	17.6	8.28	144.1	0.07	232.3
9/06/2024	10:31:44PM	15.4	8.74	144.6	0.07	283.1
9/07/2024	05:57:25AM	15.5	9.00	208.4	0.10	215.1
9/08/2024	10:58:42PM	16.1	9.03	163.5	0.08	191.8

3. Calibration Log:

Table 4. Calibration Log


Date	Unit	pH	Conductivity/Temp.	Salinity	NTU
9/03/2024	YSI	✓	✓	✓	✓
9/07/2024	WTP	✓	✓	N/A	✓




Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


APPENDIX A: WTP LOG

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	0:00:00	7.3	0.578	3,098	4.2	Open	Closed	106.3	288
9/2/2024	0:15:00	7	0.590	3,098	4.9	Open	Closed	106.3	288
9/2/2024	0:30:00	7.1	0.367	3,098	3.7	Open	Closed	106.3	287
9/2/2024	0:45:00	7.2	0.374	3,098	1.5	Closed	Open	106.3	292
9/2/2024	1:00:00	7.3	0.363	3,098	1	Closed	Open	106.3	292
9/2/2024	1:15:00	7.2	0.355	3,098	0.4	Closed	Open	106.3	292
9/2/2024	1:30:00	6.9	0.367	3,098	1.5	Closed	Open	106.3	292
9/2/2024	1:45:00	7.2	1.066	3,098	68.5	Open	Closed	106.3	292
9/2/2024	2:00:00	7.3	1.784	3,098	104.8	Open	Closed	106.3	293
9/2/2024	2:15:00	7.3	0.775	3,098	17.8	Open	Closed	106.3	292
9/2/2024	2:30:00	7.4	0.000	3,098	36.4	Open	Closed	106.3	293

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	2:45:00	7.3	0.790	3,098	30.6	Open	Closed	106.3	289
9/2/2024	3:00:00	7.6	0.446	3,098	48.9	Open	Closed	106.3	295
9/2/2024	3:15:00	7.6	0.491	3,098	49.2	Open	Closed	106.3	295
9/2/2024	3:30:00	7.5	0.835	3,098	84.2	Open	Closed	106.3	294
9/2/2024	3:45:00	7.1	0.790	3,098	407.3	Open	Closed	106.3	289
9/2/2024	4:00:00	7.4	0.779	3,098	407.4	Open	Closed	106.3	289
9/2/2024	4:15:00	7.4	1.709	3,098	407.4	Open	Closed	106.3	292
9/2/2024	4:30:00	7.4	0.786	3,101	407.5	Open	Closed	106.3	292
9/2/2024	4:45:00	7.1	0.760	3,107	407.4	Open	Closed	106.3	292
9/2/2024	5:00:00	7.2	1.656	3,113	407.5	Open	Closed	106.3	292
9/2/2024	5:15:00	7.3	1.644	3,121	214.5	Open	Closed	106.3	292

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	5:30:00	7.3	1.690	3,126	36.1	Open	Closed	106.3	293
9/2/2024	5:45:00	7.3	1.641	3,132	63.1	Open	Closed	106.3	293
9/2/2024	6:00:00	7.3	1.637	3,140	93.9	Open	Closed	106.3	293
9/2/2024	6:15:00	7.1	1.788	3,149	91.8	Open	Closed	106.3	293
9/2/2024	6:30:00	7.2	1.244	3,157	394	Open	Closed	106.3	293
9/2/2024	6:45:00	7.3	1.996	3,164	33.3	Open	Closed	106.3	295
9/2/2024	7:00:00	7	0.790	3,172	11.2	Open	Closed	106.3	295
9/2/2024	7:15:00	7.2	1.898	3,179	34.5	Open	Closed	106.3	295
9/2/2024	7:30:00	7.2	1.206	3,188	12.6	Open	Closed	106.3	297
9/2/2024	7:45:00	7.1	1.145	3,194	16.9	Open	Closed	106.3	297
9/2/2024	8:00:00	7.2	1.077	3,200	14.5	Open	Closed	106.3	297

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	8:15:00	7.2	1.036	3,204	11.8	Open	Closed	106.3	298
9/2/2024	8:30:00	7.1	0.578	3,208	8.8	Open	Closed	106.3	298
9/2/2024	8:45:00	7.2	0.964	3,208	8.5	Open	Closed	106.3	298
9/2/2024	9:00:00	7.2	0.397	3,208	3.2	Closed	Open	106.3	300
9/2/2024	9:15:00	7	0.401	3,208	3.3	Closed	Open	106.3	300
9/2/2024	9:30:00	7.1	0.480	3,208	6	Closed	Open	106.3	300
9/2/2024	9:45:00	7.3	0.571	3,208	3.5	Closed	Open	106.3	300
9/2/2024	10:00:00	7.1	0.639	3,208	6.9	Open	Closed	106.3	300
9/2/2024	10:15:00	7.1	0.552	3,208	3.4	Closed	Open	106.3	300
9/2/2024	10:30:00	7.3	0.605	3,217	3.2	Closed	Open	106.3	300
9/2/2024	10:45:00	7	0.544	3,224	3.5	Closed	Open	106.3	300

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	11:00:00	7.1	0.507	3,231	3.6	Closed	Open	106.3	300
9/2/2024	11:15:00	7.3	0.495	3,233	2.6	Closed	Open	106.3	300
9/2/2024	11:30:00	7.1	0.507	3,233	2.9	Closed	Open	106.3	300
9/2/2024	11:45:00	7.1	0.480	3,233	4.5	Closed	Open	106.3	300
9/2/2024	12:00:00	7.2	0.401	3,233	3.8	Closed	Open	106.3	302
9/2/2024	12:15:00	7.2	0.389	3,233	3.2	Closed	Open	106.3	301
9/2/2024	12:30:00	6.9	0.370	3,233	3.3	Closed	Open	106.3	300
9/2/2024	12:45:00	6.9	0.295	3,233	4.5	Closed	Open	106.3	300
9/2/2024	13:00:00	7.1	0.000	3,233	11.8	Open	Closed	106.3	300
9/2/2024	13:15:00	7.1	0.000	3,233	10.2	Open	Closed	106.3	298
9/2/2024	13:30:00	7.1	0.000	3,233	6.6	Open	Closed	106.3	296

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	13:45:00	7.1	0.990	3,233	406.6	Open	Closed	106.3	296
9/2/2024	14:00:00	7.2	0.937	3,233	76.1	Open	Closed	106.3	298
9/2/2024	14:15:00	7.2	0.885	3,233	16.3	Open	Closed	106.3	298
9/2/2024	14:30:00	7.1	0.869	3,233	11.2	Open	Closed	106.3	298
9/2/2024	14:45:00	7.3	0.809	3,233	4.6	Closed	Open	106.3	298
9/2/2024	15:00:00	7.1	0.446	3,233	1.9	Closed	Open	106.3	297
9/2/2024	15:15:00	7.1	0.442	3,233	0	Closed	Open	106.3	298
9/2/2024	15:30:00	7.2	0.435	3,233	0	Closed	Open	106.3	300
9/2/2024	15:45:00	6.8	0.125	3,233	10.8	Open	Closed	106.3	299
9/2/2024	16:00:00	7.1	0.178	3,233	25.9	Open	Closed	106.3	300
9/2/2024	16:15:00	7.3	0.771	3,233	50.1	Open	Closed	106.3	298

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	16:30:00	7	0.624	3,233	48.3	Open	Closed	106.3	300
9/2/2024	16:45:00	7	0.000	3,233	38.6	Open	Closed	106.3	296
9/2/2024	17:00:00	7.3	0.764	3,233	38.4	Open	Closed	106.3	298
9/2/2024	17:15:00	7.1	0.000	3,233	28.4	Open	Closed	106.3	298
9/2/2024	17:30:00	7.3	0.646	3,233	38.7	Open	Closed	106.3	296
9/2/2024	17:45:00	7.2	0.737	3,233	55.8	Open	Closed	106.3	296
9/2/2024	18:00:00	7	0.000	3,233	55	Open	Closed	106.3	298
9/2/2024	18:15:00	7.3	0.000	3,233	25.5	Open	Closed	106.3	296
9/2/2024	18:30:00	7.1	0.699	3,233	27.5	Open	Closed	106.3	298
9/2/2024	18:45:00	7.1	0.741	3,233	407	Open	Closed	106.3	297
9/2/2024	19:00:00	7.3	0.688	3,233	131.5	Open	Closed	106.3	297

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	19:15:00	7	0.707	3,233	44.2	Open	Closed	106.3	297
9/2/2024	19:30:00	7.2	0.000	3,233	244.4	Open	Closed	106.3	298
9/2/2024	19:45:00	7.3	0.677	3,233	302.1	Open	Closed	106.3	297
9/2/2024	20:00:00	7	0.677	3,233	307.6	Open	Closed	106.3	297
9/2/2024	20:15:00	7.2	0.000	3,233	5.9	Open	Closed	106.3	297
9/2/2024	20:30:00	7.3	0.578	3,233	7.5	Open	Closed	106.3	298
9/2/2024	20:45:00	7.2	0.000	3,233	151.1	Open	Closed	106.3	298
9/2/2024	21:00:00	7	0.911	3,233	107.7	Open	Closed	106.3	298
9/2/2024	21:15:00	7.3	0.000	3,233	115.6	Open	Closed	106.3	298
9/2/2024	21:30:00	7	0.866	3,233	120.5	Open	Closed	106.3	298
9/2/2024	21:45:00	7.2	0.847	3,233	122.9	Open	Closed	106.3	298

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/2/2024	22:00:00	7.3	0.000	3,236	124.5	Open	Closed	106.3	298
9/2/2024	22:15:00	7	0.782	3,242	13.2	Open	Closed	106.3	298
9/2/2024	22:30:00	7.3	0.000	3,248	10.8	Open	Closed	106.3	298
9/2/2024	22:45:00	7	0.779	3,253	13.2	Open	Closed	106.3	298
9/2/2024	23:00:00	7	0.000	3,259	11.7	Open	Closed	106.3	298
9/2/2024	23:15:00	7.2	1.349	3,264	26.4	Open	Closed	106.3	298
9/2/2024	23:30:00	7.3	0.000	3,270	321.3	Open	Closed	106.3	298
9/2/2024	23:45:00	7.2	0.000	3,275	244.5	Open	Closed	106.3	298
9/3/2024	0:00:00	7.2	0.000	3,281	247.9	Open	Closed	106.3	298
9/3/2024	0:15:00	7.1	0.854	3,286	42.8	Open	Closed	106.3	298
9/3/2024	0:30:00	7.2	0.000	3,291	8.8	Open	Closed	106.3	298

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	0:45:00	7.2	0.476	3,291	11.4	Open	Closed	106.3	298
9/3/2024	1:00:00	6.9	0.367	3,291	7.9	Open	Closed	106.3	298
9/3/2024	1:15:00	7	0.450	3,291	21.6	Open	Closed	106.3	298
9/3/2024	1:30:00	7.2	0.000	3,291	42.8	Open	Closed	106.3	298
9/3/2024	1:45:00	7.2	1.436	3,295	407.4	Open	Closed	106.3	298
9/3/2024	2:00:00	7.4	1.051	3,300	157.4	Open	Closed	106.3	298
9/3/2024	2:15:00	7.2	0.953	3,302	11.5	Open	Closed	106.3	297
9/3/2024	2:30:00	7.2	0.370	3,302	0	Closed	Open	106.3	297
9/3/2024	2:45:00	6.9	0.378	3,302	0	Closed	Open	106.3	296
9/3/2024	3:00:00	6.9	0.367	3,302	0	Closed	Open	106.3	297
9/3/2024	3:15:00	7.1	0.359	3,302	0	Closed	Open	106.3	296

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	3:30:00	7.3	0.348	3,302	0	Closed	Open	106.3	297
9/3/2024	3:45:00	7.1	0.359	3,302	0	Closed	Open	106.3	297
9/3/2024	4:00:00	6.8	0.359	3,302	0	Closed	Open	106.3	297
9/3/2024	4:15:00	7	0.359	3,302	0	Closed	Open	106.3	297
9/3/2024	4:30:00	7.1	0.359	3,302	0	Closed	Open	106.3	296
9/3/2024	4:45:00	7.3	0.355	3,302	0	Closed	Open	106.3	297
9/3/2024	5:00:00	7.2	0.000	3,302	0	Open	Closed	106.3	297
9/3/2024	5:15:00	7.2	0.000	3,302	0	Open	Closed	106.3	295
9/3/2024	5:30:00	7.2	0.000	3,302	0	Open	Closed	106.3	295
9/3/2024	5:45:00	7.2	0.000	3,302	0	Open	Closed	106.3	295
9/3/2024	6:00:00	7	0.370	3,302	1.7	Open	Closed	106.3	293

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	6:15:00	6.8	0.363	3,302	1.4	Closed	Open	106.3	293
9/3/2024	6:30:00	7	0.363	3,302	3	Closed	Open	106.3	293
9/3/2024	6:45:00	7.2	1.346	3,302	153.3	Open	Closed	106.3	293
9/3/2024	7:00:00	7.1	0.960	3,302	193.9	Open	Closed	106.3	294
9/3/2024	7:15:00	7.1	1.399	3,302	407.6	Open	Closed	106.3	294
9/3/2024	7:30:00	7.2	0.000	3,302	177.6	Open	Closed	106.3	295
9/3/2024	7:45:00	7.2	0.000	3,302	148.7	Open	Closed	106.3	295
9/3/2024	8:00:00	7.1	0.794	3,302	40.4	Open	Closed	106.3	293
9/3/2024	8:15:00	7.2	0.680	3,302	110.5	Open	Closed	106.3	293
9/3/2024	8:30:00	7	0.911	3,302	407.4	Open	Closed	106.3	293
9/3/2024	8:45:00	7.2	0.457	3,302	0.7	Open	Closed	106.3	293

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	9:00:00	7.2	0.782	3,302	390.3	Open	Closed	106.3	293
9/3/2024	9:15:00	7.8	0.151	3,302	51.3	Open	Closed	106.3	292
9/3/2024	9:30:00	7.1	0.000	3,303	79.9	Open	Closed	106.3	291
9/3/2024	9:45:00	6.9	0.435	3,308	21.3	Open	Closed	106.3	292
9/3/2024	10:00:00	7.1	0.423	3,312	22.2	Open	Closed	106.3	291
9/3/2024	10:15:00	7.3	0.000	3,316	35.3	Open	Closed	106.3	292
9/3/2024	10:30:00	7.1	0.476	3,320	19	Open	Closed	106.3	292
9/3/2024	10:45:00	7	0.476	3,324	18.6	Open	Closed	106.3	292
9/3/2024	11:00:00	7.2	0.374	3,329	20.7	Open	Closed	106.3	291
9/3/2024	11:15:00	7.2	0.567	3,333	26.3	Open	Closed	106.3	292
9/3/2024	11:30:00	6.9	0.299	3,337	23.8	Open	Closed	106.3	292

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	11:45:00	6.9	0.386	3,341	14.9	Open	Closed	106.3	292
9/3/2024	12:00:00	7.1	0.000	3,343	10	Open	Closed	106.3	292
9/3/2024	12:15:00	7.3	0.404	3,347	28.1	Open	Closed	106.3	292
9/3/2024	12:30:00	7.1	0.363	3,351	19.5	Open	Closed	106.3	292
9/3/2024	12:45:00	7	0.000	3,355	16.4	Open	Closed	106.3	292
9/3/2024	13:00:00	7.1	0.382	3,359	20.8	Open	Closed	106.3	292
9/3/2024	13:15:00	7.3	0.775	3,363	67.5	Open	Closed	106.3	292
9/3/2024	13:30:00	7	0.359	3,367	32	Open	Closed	106.3	292
9/3/2024	13:45:00	7.2	0.352	3,371	11.7	Open	Closed	106.3	292
9/3/2024	14:00:00	7.3	0.318	3,375	4.7	Closed	Open	106.3	292
9/3/2024	14:15:00	7.2	0.325	3,379	3.5	Closed	Open	106.3	292

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	14:30:00	6.9	0.276	3,383	3.4	Closed	Open	106.3	292
9/3/2024	14:45:00	7	0.272	3,387	2.4	Closed	Open	106.3	290
9/3/2024	15:00:00	7.1	0.310	3,392	4.4	Closed	Open	106.3	290
9/3/2024	15:15:00	7.2	0.280	3,396	1.1	Closed	Open	106.3	290
9/3/2024	15:30:00	7.3	0.299	3,400	8	Open	Closed	106.3	291
9/3/2024	15:45:00	7.2	0.276	3,404	0	Closed	Open	106.3	291
9/3/2024	16:00:00	6.9	0.268	3,408	0	Closed	Open	106.3	289
9/3/2024	16:15:00	6.9	0.302	3,412	1.4	Closed	Open	106.3	289
9/3/2024	16:30:00	7.1	0.370	3,416	8.5	Open	Closed	106.3	289
9/3/2024	16:45:00	7.2	0.280	3,420	0.4	Closed	Open	106.3	289
9/3/2024	17:00:00	7.3	0.284	3,424	0	Closed	Open	106.3	291

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	17:15:00	7.2	0.280	3,428	0	Closed	Open	106.3	288
9/3/2024	17:30:00	6.9	0.280	3,432	0	Closed	Open	106.3	289
9/3/2024	17:45:00	6.9	0.276	3,436	0	Closed	Open	106.3	289
9/3/2024	18:00:00	7	0.276	3,440	0	Closed	Open	106.3	289
9/3/2024	18:15:00	7.1	0.276	3,445	0	Closed	Open	106.3	287
9/3/2024	18:30:00	7.2	0.276	3,449	0	Closed	Open	106.3	287
9/3/2024	18:45:00	7.3	0.272	3,453	0	Closed	Open	106.3	287
9/3/2024	19:00:00	7.1	0.268	3,457	0	Closed	Open	106.3	287
9/3/2024	19:15:00	6.9	0.268	3,459	0	Closed	Open	106.3	287
9/3/2024	19:30:00	6.9	0.268	3,459	0	Closed	Open	106.3	287
9/3/2024	19:45:00	7	0.268	3,459	0	Closed	Open	106.3	287

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	20:00:00	7.1	0.268	3,459	0	Closed	Open	106.3	287
9/3/2024	20:15:00	7.2	0.265	3,459	0	Closed	Open	106.3	289
9/3/2024	20:30:00	7.3	0.268	3,459	0	Closed	Open	106.3	288
9/3/2024	20:45:00	7.2	0.261	3,459	0	Closed	Open	106.3	288
9/3/2024	21:00:00	6.9	0.265	3,459	0	Closed	Open	106.3	288
9/3/2024	21:15:00	6.9	0.272	3,459	0	Closed	Open	106.3	288
9/3/2024	21:30:00	7	0.265	3,459	0	Closed	Open	106.3	288
9/3/2024	21:45:00	7.1	0.268	3,459	0	Closed	Open	106.3	288
9/3/2024	22:00:00	7.2	0.261	3,459	0	Closed	Open	106.3	288
9/3/2024	22:15:00	7.3	0.261	3,462	0	Closed	Open	106.3	289
9/3/2024	22:30:00	7.3	0.261	3,468	0.3	Closed	Open	106.3	289

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/3/2024	22:45:00	7	0.261	3,474	0	Closed	Open	106.3	288
9/3/2024	23:00:00	6.9	0.261	3,480	0	Closed	Open	106.3	288
9/3/2024	23:15:00	6.9	0.257	3,486	0	Closed	Open	106.3	287
9/3/2024	23:30:00	7	0.249	3,491	0	Closed	Open	106.3	287
9/3/2024	23:45:00	7.2	0.624	3,494	409.4	Open	Closed	106.3	285
9/4/2024	0:00:00	7.3	1.206	3,494	60	Open	Closed	106.3	285
9/4/2024	0:15:00	7.4	0.677	3,494	29.1	Open	Closed	106.3	285
9/4/2024	0:30:00	7.2	0.461	3,494	177.4	Open	Closed	106.3	288
9/4/2024	0:45:00	6.9	0.862	3,494	21.4	Open	Closed	106.3	288
9/4/2024	1:00:00	7.3	1.743	3,494	17.1	Open	Closed	106.3	287
9/4/2024	1:15:00	7.1	1.323	3,494	10.4	Open	Closed	106.3	287

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	1:30:00	7.3	0.000	3,494	22.1	Open	Closed	106.3	288
9/4/2024	1:45:00	7.3	0.000	3,494	17.4	Open	Closed	106.3	288
9/4/2024	2:00:00	7.3	0.000	3,494	16.4	Open	Closed	106.3	286
9/4/2024	2:15:00	7.3	0.000	3,494	10.6	Open	Closed	106.3	288
9/4/2024	2:30:00	7.1	0.529	3,498	18.8	Open	Closed	106.3	286
9/4/2024	2:45:00	7.1	0.389	3,505	0	Closed	Open	106.3	284
9/4/2024	3:00:00	7.3	0.386	3,511	0	Closed	Open	106.3	284
9/4/2024	3:15:00	7.1	0.378	3,517	0	Closed	Open	106.3	284
9/4/2024	3:30:00	6.9	0.389	3,523	0	Closed	Open	106.3	286
9/4/2024	3:45:00	7.1	0.374	3,529	0	Closed	Open	106.3	285
9/4/2024	4:00:00	7.3	0.374	3,535	0	Closed	Open	106.3	284

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	4:15:00	6.7	0.816	3,541	15.7	Open	Closed	106.3	285
9/4/2024	4:30:00	7.1	0.873	3,546	12.5	Open	Closed	106.3	287
9/4/2024	4:45:00	7.3	0.975	3,546	18.4	Open	Closed	106.3	286
9/4/2024	5:00:00	7.4	0.000	3,546	17	Open	Closed	106.3	285
9/4/2024	5:15:00	7.4	0.000	3,546	16.6	Open	Closed	106.3	286
9/4/2024	5:30:00	7.4	0.000	3,546	12.8	Open	Closed	106.3	284
9/4/2024	5:45:00	7.2	0.945	3,551	225.9	Open	Closed	106.3	284
9/4/2024	6:00:00	7.2	0.000	3,554	8.6	Open	Closed	106.3	286
9/4/2024	6:15:00	7.1	1.217	3,557	5.8	Open	Closed	106.3	286
9/4/2024	6:30:00	7.1	1.312	3,560	18.9	Open	Closed	106.3	286
9/4/2024	6:45:00	7.2	0.404	3,565	1.2	Open	Closed	106.3	286

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	7:00:00	7.3	0.408	3,571	0.5	Closed	Open	106.3	286
9/4/2024	7:15:00	6.9	0.397	3,574	0.8	Closed	Open	106.3	285
9/4/2024	7:30:00	6.9	0.389	3,574	0	Closed	Open	106.3	286
9/4/2024	7:45:00	7.1	0.397	3,574	0	Closed	Open	106.3	286
9/4/2024	8:00:00	7.3	0.401	3,574	0	Closed	Open	106.3	284
9/4/2024	8:15:00	7.2	0.401	3,574	0	Closed	Open	106.3	284
9/4/2024	8:30:00	6.9	0.404	3,574	0	Closed	Open	106.3	284
9/4/2024	8:45:00	7	0.393	3,574	0	Closed	Open	106.3	284
9/4/2024	9:00:00	7.2	0.393	3,574	0	Open	Closed	106.3	284
9/4/2024	9:15:00	7.3	0.397	3,574	0	Open	Closed	106.3	284
9/4/2024	9:30:00	6.9	0.393	3,574	0	Open	Closed	106.3	284

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	9:45:00	6.9	0.382	3,574	0	Open	Closed	106.3	282
9/4/2024	10:00:00	7.1	0.393	3,574	0	Open	Closed	106.3	283
9/4/2024	10:15:00	7.3	0.393	3,574	0	Closed	Open	106.3	281
9/4/2024	10:30:00	7.2	0.397	3,574	0	Open	Closed	106.3	283
9/4/2024	10:45:00	6.9	0.393	3,574	0	Closed	Open	106.3	283
9/4/2024	11:00:00	7	0.344	3,574	0.8	Closed	Open	106.3	282
9/4/2024	11:15:00	7.2	0.340	3,574	0	Closed	Open	106.3	282
9/4/2024	11:30:00	7.3	0.344	3,574	0	Closed	Open	106.3	282
9/4/2024	11:45:00	7.2	0.000	3,574	0	Open	Closed	106.3	282
9/4/2024	12:00:00	7.2	0.000	3,574	0	Open	Closed	106.3	279
9/4/2024	12:15:00	6.9	0.344	3,574	0.1	Open	Closed	106.3	279

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	12:30:00	7	0.348	3,574	1.3	Open	Closed	106.3	279
9/4/2024	12:45:00	7.2	0.344	3,574	31.6	Open	Closed	106.3	279
9/4/2024	13:00:00	7.3	0.348	3,574	161.4	Open	Closed	106.3	281
9/4/2024	13:15:00	7.1	0.643	3,574	408.4	Open	Closed	106.3	281
9/4/2024	13:30:00	7.2	0.435	3,574	408.3	Open	Closed	106.3	281
9/4/2024	13:45:00	7.3	0.431	3,574	408.3	Open	Closed	106.3	281
9/4/2024	14:00:00	7	0.624	3,574	408.2	Open	Closed	106.3	279
9/4/2024	14:15:00	7.2	0.272	3,574	408.1	Open	Closed	106.3	279
9/4/2024	14:30:00	7.3	0.302	3,574	408.1	Open	Closed	106.3	279
9/4/2024	14:45:00	6.9	0.578	3,574	408.1	Open	Closed	106.3	279
9/4/2024	15:00:00	7.2	0.575	3,579	408	Open	Closed	106.3	280

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	15:15:00	7.2	0.578	3,583	408	Open	Closed	106.3	279
9/4/2024	15:30:00	7.1	0.643	3,588	407.9	Open	Closed	106.3	279
9/4/2024	15:45:00	7.3	0.567	3,593	407.8	Open	Closed	106.3	279
9/4/2024	16:00:00	7	0.578	3,598	407.8	Open	Closed	106.3	279
9/4/2024	16:15:00	7.3	0.635	3,602	407.7	Open	Closed	106.3	280
9/4/2024	16:30:00	7.3	0.389	3,607	407.7	Open	Closed	106.3	280
9/4/2024	16:45:00	6.9	0.363	3,612	207.7	Open	Closed	106.3	280
9/4/2024	17:00:00	6.9	0.344	3,616	165.6	Open	Closed	106.3	280
9/4/2024	17:15:00	7.1	0.348	3,621	142.2	Open	Closed	106.3	283
9/4/2024	17:30:00	7.4	0.340	3,626	4.5	Open	Closed	106.3	283
9/4/2024	17:45:00	7.3	0.333	3,631	101.1	Open	Closed	106.3	283

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	18:00:00	6.7	0.344	3,635	58.8	Open	Closed	106.3	281
9/4/2024	18:15:00	6.6	0.340	3,638	42.4	Open	Closed	106.3	282
9/4/2024	18:30:00	6.7	0.000	3,638	311.1	Open	Closed	106.3	282
9/4/2024	18:45:00	7	0.000	3,638	25.8	Open	Closed	106.3	283
9/4/2024	19:00:00	7.3	0.333	3,638	7.8	Open	Closed	106.3	283
9/4/2024	19:15:00	7.1	0.321	3,638	5.6	Open	Closed	106.3	283
9/4/2024	19:30:00	6.9	0.325	3,641	3.5	Closed	Open	106.3	284
9/4/2024	19:45:00	7	0.325	3,646	3.2	Closed	Open	106.3	284
9/4/2024	20:00:00	7.1	0.321	3,650	3.4	Closed	Open	106.3	285
9/4/2024	20:15:00	7.2	0.325	3,655	3.8	Closed	Open	106.3	286
9/4/2024	20:30:00	7.3	0.321	3,659	3.8	Closed	Open	106.3	284

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	20:45:00	7	0.325	3,664	3.8	Closed	Open	106.3	284
9/4/2024	21:00:00	6.9	0.321	3,669	3.8	Closed	Open	106.3	284
9/4/2024	21:15:00	7	0.318	3,674	3.6	Closed	Open	106.3	284
9/4/2024	21:30:00	7.1	0.318	3,678	3.4	Closed	Open	106.3	284
9/4/2024	21:45:00	7.2	0.314	3,683	3.5	Closed	Open	106.3	284
9/4/2024	22:00:00	7.2	0.310	3,688	3.3	Closed	Open	106.3	284
9/4/2024	22:15:00	6.9	0.318	3,693	4.1	Closed	Open	106.3	284
9/4/2024	22:30:00	6.9	0.314	3,697	4.2	Closed	Open	106.3	283
9/4/2024	22:45:00	7.1	0.798	3,702	414	Open	Closed	106.3	284
9/4/2024	23:00:00	7.4	1.682	3,707	322.8	Open	Closed	106.3	282
9/4/2024	23:15:00	7.3	1.697	3,712	157.9	Open	Closed	106.3	284

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/4/2024	23:30:00	7.3	0.503	3,716	8.2	Open	Closed	106.3	284
9/4/2024	23:45:00	7.3	0.318	3,721	3.3	Open	Closed	106.3	284
9/5/2024	0:00:00	7.3	0.329	3,725	0.7	Closed	Open	106.3	284
9/5/2024	0:15:00	7.4	0.325	3,730	0.6	Closed	Open	106.3	285
9/5/2024	0:30:00	7.4	0.306	3,734	0.6	Closed	Open	106.3	285
9/5/2024	0:45:00	7.4	0.314	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:00:00	7.4	0.302	3,739	0.3	Closed	Open	106.3	284
9/5/2024	1:15:00	7.4	0.306	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:30:00	7.4	0.306	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:45:00	7.4	0.314	3,739	0.5	Closed	Open	106.3	285
9/5/2024	2:00:00	7.4	0.310	3,739	0.4	Closed	Open	106.3	285

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	2:15:00	7.5	0.302	3,739	0.4	Closed	Open	106.3	284
9/5/2024	2:30:00	7.5	0.306	3,739	0.7	Closed	Open	106.3	284
9/5/2024	2:45:00	7.5	0.302	3,739	0.3	Closed	Open	106.3	284
9/5/2024	3:00:00	7.5	0.295	3,739	0.5	Closed	Open	106.3	285
9/5/2024	3:15:00	7.5	0.295	3,739	0.4	Closed	Open	106.3	283
9/5/2024	3:30:00	7.5	0.299	3,744	0.4	Closed	Open	106.3	283
9/5/2024	3:45:00	7.5	0.302	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:00:00	7.5	0.302	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:15:00	7.5	0.295	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:30:00	7.5	0.295	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:45:00	7.6	0.299	3,744	0.2	Closed	Open	106.3	283

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	5:00:00	7.6	0.291	3,744	0.3	Closed	Open	106.3	281
9/5/2024	5:15:00	7.6	0.291	3,744	0.4	Closed	Open	106.3	282
9/5/2024	5:30:00	8	1.142	3,748	414.4	Open	Closed	106.3	281
9/5/2024	5:45:00	8	0.000	3,752	414.4	Open	Closed	106.3	281
9/5/2024	6:00:00	8	1.455	3,755	82.2	Open	Closed	106.3	281
9/5/2024	6:15:00	8	0.000	3,759	52.6	Open	Closed	106.3	281
9/5/2024	6:30:00	7.2	1.607	3,762	87.5	Open	Closed	106.3	281
9/5/2024	6:45:00	7.8	0.915	3,765	414.4	Open	Closed	106.3	281
9/5/2024	7:00:00	7.3	1.569	3,765	67	Open	Closed	106.3	281
9/5/2024	7:15:00	7.3	1.576	3,765	67	Open	Closed	106.3	281
9/5/2024	7:30:00	7.1	0.847	3,765	11.3	Open	Closed	106.3	282

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	7:45:00	7.1	0.333	3,765	5	Open	Closed	106.3	282
9/5/2024	8:00:00	7.2	0.340	3,765	5.4	Open	Closed	106.3	280
9/5/2024	8:15:00	7.2	0.340	3,765	5.6	Open	Closed	106.3	280
9/5/2024	8:30:00	6.9	0.333	3,765	6.7	Open	Closed	106.3	280
9/5/2024	8:45:00	6.9	0.284	3,765	21.3	Open	Closed	106.3	280
9/5/2024	9:00:00	7.1	0.333	3,765	22.8	Open	Closed	106.3	279
9/5/2024	9:15:00	7.2	0.329	3,765	8.7	Open	Closed	106.3	280
9/5/2024	9:30:00	7.3	0.302	3,768	6	Open	Closed	106.3	280
9/5/2024	9:45:00	7.1	0.253	3,773	4.4	Open	Closed	106.3	280
9/5/2024	10:00:00	6.9	0.265	3,778	4.5	Closed	Open	106.3	278
9/5/2024	10:15:00	7	0.231	3,782	4	Closed	Open	106.3	277

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	10:30:00	7.1	0.234	3,787	4.1	Closed	Open	106.3	277
9/5/2024	10:45:00	7.2	0.238	3,792	3.8	Closed	Open	106.3	277
9/5/2024	11:00:00	7.2	0.238	3,797	4.1	Closed	Open	106.3	277
9/5/2024	11:15:00	7.3	0.227	3,802	4.5	Closed	Open	106.3	277
9/5/2024	11:30:00	6.9	0.367	3,806	32.4	Open	Closed	106.3	276
9/5/2024	11:45:00	7	0.635	3,811	149.2	Open	Closed	106.3	276
9/5/2024	12:00:00	7.3	0.854	3,812	82	Open	Closed	106.3	276
9/5/2024	12:15:00	7.1	0.367	3,812	14.5	Open	Closed	106.3	274
9/5/2024	12:30:00	7.2	0.310	3,812	10.8	Open	Closed	106.3	274
9/5/2024	12:45:00	7.3	0.246	3,812	8.8	Open	Closed	106.3	276
9/5/2024	13:00:00	7	0.730	3,812	42.9	Open	Closed	106.3	277

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	13:15:00	7.1	0.669	3,812	22.4	Open	Closed	106.3	275
9/5/2024	13:30:00	7.3	0.684	3,812	12.1	Open	Closed	106.3	275
9/5/2024	13:45:00	7.1	0.144	3,812	8.4	Open	Closed	106.3	275
9/5/2024	14:00:00	7.2	0.344	3,812	2.6	Closed	Open	106.3	275
9/5/2024	14:15:00	7.2	0.336	3,812	1.5	Closed	Open	106.3	275
9/5/2024	14:30:00	7	0.329	3,815	1.6	Closed	Open	106.3	275
9/5/2024	14:45:00	7	0.340	3,822	2	Closed	Open	106.3	275
9/5/2024	15:00:00	7.1	0.336	3,829	2.3	Closed	Open	106.3	275
9/5/2024	15:15:00	7.2	0.329	3,836	2.4	Closed	Open	106.3	275
9/5/2024	15:30:00	7.3	0.333	3,843	1.7	Closed	Open	106.3	275
9/5/2024	15:45:00	7	0.333	3,849	1.5	Closed	Open	106.3	275

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	16:00:00	7	0.321	3,854	0.9	Closed	Open	106.3	273
9/5/2024	16:15:00	7.1	0.325	3,854	3.8	Closed	Open	106.3	274
9/5/2024	16:30:00	7.2	0.711	3,854	412.4	Open	Closed	106.3	274
9/5/2024	16:45:00	7	0.892	3,854	162.3	Open	Closed	106.3	274
9/5/2024	17:00:00	7.2	0.873	3,854	193.6	Open	Closed	106.3	274
9/5/2024	17:15:00	7.2	0.869	3,854	166.5	Open	Closed	106.3	274
9/5/2024	17:30:00	7	0.858	3,854	105.9	Open	Closed	106.3	276
9/5/2024	17:45:00	7.3	0.873	3,854	91.8	Open	Closed	106.3	275
9/5/2024	18:00:00	7.1	0.835	3,854	99.4	Open	Closed	106.3	274
9/5/2024	18:15:00	7.2	0.945	3,854	104	Open	Closed	106.3	274
9/5/2024	18:30:00	7.2	0.261	3,854	15.5	Open	Closed	106.3	273

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	18:45:00	7.6	0.469	3,854	7.6	Open	Closed	106.3	273
9/5/2024	19:00:00	7	0.461	3,854	0.3	Closed	Open	106.3	274
9/5/2024	19:15:00	7.1	0.469	3,854	1.3	Closed	Open	106.3	274
9/5/2024	19:30:00	7.2	0.457	3,641	0.2	Closed	Open	106.3	274
9/5/2024	19:45:00	7.2	0.457	3,646	0.7	Closed	Open	106.3	276
9/5/2024	20:00:00	7.2	0.450	3,650	0.4	Closed	Open	106.3	277
9/5/2024	20:15:00	7.2	0.450	3,655	0.2	Closed	Open	106.3	276
9/5/2024	20:30:00	7.2	0.000	3,659	0.2	Open	Closed	106.3	276
9/5/2024	20:45:00	7.2	0.000	3,664	0.1	Open	Closed	106.3	276
9/5/2024	21:00:00	7.2	0.000	3,669	0.1	Open	Closed	106.3	276
9/5/2024	21:15:00	7.2	0.000	3,674	0.1	Open	Closed	106.3	276

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	21:30:00	7.2	0.000	3,678	0	Open	Closed	106.3	277
9/5/2024	21:45:00	7.2	0.000	3,683	0	Open	Closed	106.3	277
9/5/2024	22:00:00	7.2	0.000	3,688	0	Open	Closed	106.3	279
9/5/2024	22:15:00	7.2	0.000	3,693	0	Open	Closed	106.3	279
9/5/2024	22:30:00	7.2	1.055	3,697	413.7	Open	Closed	106.3	277
9/5/2024	22:45:00	7.3	0.000	3,702	413.7	Open	Closed	106.3	276
9/5/2024	23:00:00	7.2	1.130	3,707	277	Open	Closed	106.3	275
9/5/2024	23:15:00	7.2	0.000	3,712	32.4	Open	Closed	106.3	277
9/5/2024	23:30:00	7.2	1.357	3,716	22.5	Open	Closed	106.3	277
9/5/2024	23:45:00	7.4	1.474	3,721	267.6	Open	Closed	106.3	277
9/5/2024	0:00:00	7.3	0.329	3,725	0.7	Closed	Open	106.3	284

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	0:15:00	7.4	0.325	3,730	0.6	Closed	Open	106.3	285
9/5/2024	0:30:00	7.4	0.306	3,734	0.6	Closed	Open	106.3	285
9/5/2024	0:45:00	7.4	0.314	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:00:00	7.4	0.302	3,739	0.3	Closed	Open	106.3	284
9/5/2024	1:15:00	7.4	0.306	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:30:00	7.4	0.306	3,739	0.4	Closed	Open	106.3	285
9/5/2024	1:45:00	7.4	0.314	3,739	0.5	Closed	Open	106.3	285
9/5/2024	2:00:00	7.4	0.310	3,739	0.4	Closed	Open	106.3	285
9/5/2024	2:15:00	7.5	0.302	3,739	0.4	Closed	Open	106.3	284
9/5/2024	2:30:00	7.5	0.306	3,739	0.7	Closed	Open	106.3	284
9/5/2024	2:45:00	7.5	0.302	3,739	0.3	Closed	Open	106.3	284

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	3:00:00	7.5	0.295	3,739	0.5	Closed	Open	106.3	285
9/5/2024	3:15:00	7.5	0.295	3,739	0.4	Closed	Open	106.3	283
9/5/2024	3:30:00	7.5	0.299	3,744	0.4	Closed	Open	106.3	283
9/5/2024	3:45:00	7.5	0.302	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:00:00	7.5	0.302	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:15:00	7.5	0.295	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:30:00	7.5	0.295	3,744	0.3	Closed	Open	106.3	283
9/5/2024	4:45:00	7.6	0.299	3,744	0.2	Closed	Open	106.3	283
9/5/2024	5:00:00	7.6	0.291	3,744	0.3	Closed	Open	106.3	281
9/5/2024	5:15:00	7.6	0.291	3,744	0.4	Closed	Open	106.3	282
9/5/2024	5:30:00	8	1.142	3,748	414.4	Open	Closed	106.3	281

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	5:45:00	8	0.000	3,752	414.4	Open	Closed	106.3	281
9/5/2024	6:00:00	8	1.455	3,755	82.2	Open	Closed	106.3	281
9/5/2024	6:15:00	8	0.000	3,759	52.6	Open	Closed	106.3	281
9/5/2024	6:30:00	7.2	1.607	3,762	87.5	Open	Closed	106.3	281
9/5/2024	6:45:00	7.8	0.915	3,765	414.4	Open	Closed	106.3	281
9/5/2024	7:00:00	7.3	1.569	3,765	67	Open	Closed	106.3	281
9/5/2024	7:15:00	7.3	1.576	3,765	67	Open	Closed	106.3	281
9/5/2024	7:30:00	7.1	0.847	3,765	11.3	Open	Closed	106.3	282
9/5/2024	7:45:00	7.1	0.333	3,765	5	Open	Closed	106.3	282
9/5/2024	8:00:00	7.2	0.340	3,765	5.4	Open	Closed	106.3	280
9/5/2024	8:15:00	7.2	0.340	3,765	5.6	Open	Closed	106.3	280

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	8:30:00	6.9	0.333	3,765	6.7	Open	Closed	106.3	280
9/5/2024	8:45:00	6.9	0.284	3,765	21.3	Open	Closed	106.3	280
9/5/2024	9:00:00	7.1	0.333	3,765	22.8	Open	Closed	106.3	279
9/5/2024	9:15:00	7.2	0.329	3,765	8.7	Open	Closed	106.3	280
9/5/2024	9:30:00	7.3	0.302	3,768	6	Open	Closed	106.3	280
9/5/2024	9:45:00	7.1	0.253	3,773	4.4	Open	Closed	106.3	280
9/5/2024	10:00:00	6.9	0.265	3,778	4.5	Closed	Open	106.3	278
9/5/2024	10:15:00	7	0.231	3,782	4	Closed	Open	106.3	277
9/5/2024	10:30:00	7.1	0.234	3,787	4.1	Closed	Open	106.3	277
9/5/2024	10:45:00	7.2	0.238	3,792	3.8	Closed	Open	106.3	277
9/5/2024	11:00:00	7.2	0.238	3,797	4.1	Closed	Open	106.3	277

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	11:15:00	7.3	0.227	3,802	4.5	Closed	Open	106.3	277
9/5/2024	11:30:00	6.9	0.367	3,806	32.4	Open	Closed	106.3	276
9/5/2024	11:45:00	7	0.635	3,811	149.2	Open	Closed	106.3	276
9/5/2024	12:00:00	7.3	0.854	3,812	82	Open	Closed	106.3	276
9/5/2024	12:15:00	7.1	0.367	3,812	14.5	Open	Closed	106.3	274
9/5/2024	12:30:00	7.2	0.310	3,812	10.8	Open	Closed	106.3	274
9/5/2024	12:45:00	7.3	0.246	3,812	8.8	Open	Closed	106.3	276
9/5/2024	13:00:00	7	0.730	3,812	42.9	Open	Closed	106.3	277
9/5/2024	13:15:00	7.1	0.669	3,812	22.4	Open	Closed	106.3	275
9/5/2024	13:30:00	7.3	0.684	3,812	12.1	Open	Closed	106.3	275
9/5/2024	13:45:00	7.1	0.144	3,812	8.4	Open	Closed	106.3	275

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	14:00:00	7.2	0.344	3,812	2.6	Closed	Open	106.3	275
9/5/2024	14:15:00	7.2	0.336	3,812	1.5	Closed	Open	106.3	275
9/5/2024	14:30:00	7	0.329	3,815	1.6	Closed	Open	106.3	275
9/5/2024	14:45:00	7	0.340	3,822	2	Closed	Open	106.3	275
9/5/2024	15:00:00	7.1	0.336	3,829	2.3	Closed	Open	106.3	275
9/5/2024	15:15:00	7.2	0.329	3,836	2.4	Closed	Open	106.3	275
9/5/2024	15:30:00	7.3	0.333	3,843	1.7	Closed	Open	106.3	275
9/5/2024	15:45:00	7	0.333	3,849	1.5	Closed	Open	106.3	275
9/5/2024	16:00:00	7	0.321	3,854	0.9	Closed	Open	106.3	273
9/5/2024	16:15:00	7.1	0.325	3,854	3.8	Closed	Open	106.3	274
9/5/2024	16:30:00	7.2	0.711	3,854	412.4	Open	Closed	106.3	274

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	16:45:00	7	0.892	3,854	162.3	Open	Closed	106.3	274
9/5/2024	17:00:00	7.2	0.873	3,854	193.6	Open	Closed	106.3	274
9/5/2024	17:15:00	7.2	0.869	3,854	166.5	Open	Closed	106.3	274
9/5/2024	17:30:00	7	0.858	3,854	105.9	Open	Closed	106.3	276
9/5/2024	17:45:00	7.3	0.873	3,854	91.8	Open	Closed	106.3	275
9/5/2024	18:00:00	7.1	0.835	3,854	99.4	Open	Closed	106.3	274
9/5/2024	18:15:00	7.2	0.945	3,854	104	Open	Closed	106.3	274
9/5/2024	18:30:00	7.2	0.261	3,854	15.5	Open	Closed	106.3	273
9/5/2024	18:45:00	7.6	0.469	3,854	7.6	Open	Closed	106.3	273
9/5/2024	19:00:00	7	0.461	3,854	0.3	Closed	Open	106.3	274
9/5/2024	19:15:00	7.1	0.469	3,854	1.3	Closed	Open	106.3	274

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	19:30:00	7.2	0.457	3,854	0.2	Closed	Open	106.3	274
9/5/2024	19:45:00	7.2	0.457	3,854	0.7	Closed	Open	106.3	276
9/5/2024	20:00:00	7.2	0.450	3,854	0.4	Closed	Open	106.3	277
9/5/2024	20:15:00	7.2	0.450	3,854	0.2	Closed	Open	106.3	276
9/5/2024	20:30:00	7.2	0.000	3,854	0.2	Open	Closed	106.3	276
9/5/2024	20:45:00	7.2	0.000	3,854	0.1	Open	Closed	106.3	276
9/5/2024	21:00:00	7.2	0.000	3,854	0.1	Open	Closed	106.3	276
9/5/2024	21:15:00	7.2	0.000	3,858	0.1	Open	Closed	106.3	276
9/5/2024	21:30:00	7.2	0.000	3,863	0	Open	Closed	106.3	277
9/5/2024	21:45:00	7.2	0.000	3,867	0	Open	Closed	106.3	277
9/5/2024	22:00:00	7.2	0.000	3,872	0	Open	Closed	106.3	279

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/5/2024	22:15:00	7.2	0.000	3,876	0	Open	Closed	106.3	279
9/5/2024	22:30:00	7.2	1.055	3,881	413.7	Open	Closed	106.3	277
9/5/2024	22:45:00	7.3	0.000	3,886	413.7	Open	Closed	106.3	276
9/5/2024	23:00:00	7.2	1.130	3,891	277	Open	Closed	106.3	275
9/5/2024	23:15:00	7.2	0.000	3,895	32.4	Open	Closed	106.3	277
9/5/2024	23:30:00	7.2	1.357	3,900	22.5	Open	Closed	106.3	277
9/5/2024	23:45:00	7.4	1.474	3,905	267.6	Open	Closed	106.3	277
9/6/2024	0:00:00	7.5	1.391	3,910	26.7	Open	Closed	106.3	278
9/6/2024	0:15:00	7.5	1.353	3,914	29.4	Open	Closed	106.3	278
9/6/2024	0:30:00	7.6	1.315	3,914	31.4	Open	Closed	106.3	279
9/6/2024	0:45:00	7.7	1.285	3,914	22.3	Open	Closed	106.3	279

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	1:00:00	7.8	1.474	3,914	16.3	Open	Closed	106.3	278
9/6/2024	1:15:00	7.4	1.134	3,914	66.3	Open	Closed	106.3	278
9/6/2024	1:30:00	7.5	0.318	3,914	1.2	Open	Closed	106.3	278
9/6/2024	1:45:00	7.5	0.314	3,914	0.3	Closed	Open	106.3	279
9/6/2024	2:00:00	7.5	0.321	3,914	0.3	Closed	Open	106.3	278
9/6/2024	2:15:00	7.5	0.318	3,914	2.6	Closed	Open	106.3	280
9/6/2024	2:30:00	7.5	0.314	3,917	2.2	Closed	Open	106.3	279
9/6/2024	2:45:00	7.6	0.310	3,922	1.4	Closed	Open	106.3	279
9/6/2024	3:00:00	7.6	0.299	3,927	1.7	Closed	Open	106.3	278
9/6/2024	3:15:00	7.6	0.310	3,932	1.5	Closed	Open	106.3	278
9/6/2024	3:30:00	7.6	0.314	3,936	0.4	Closed	Open	106.3	279

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	3:45:00	7.6	0.302	3,941	0.4	Closed	Open	106.3	278
9/6/2024	4:00:00	7.6	0.302	3,946	0.3	Closed	Open	106.3	280
9/6/2024	4:15:00	7.6	0.306	3,951	1	Closed	Open	106.3	279
9/6/2024	4:30:00	7.6	0.302	3,955	1.7	Closed	Open	106.3	278
9/6/2024	4:45:00	7.6	0.299	3,958	5.4	Open	Closed	106.3	278
9/6/2024	5:00:00	7.9	1.504	3,958	177.8	Open	Closed	106.3	278
9/6/2024	5:15:00	8	1.368	3,958	173.1	Open	Closed	106.3	278
9/6/2024	5:30:00	7.2	1.338	3,958	114	Open	Closed	106.3	278
9/6/2024	5:45:00	7.4	1.002	3,958	73.8	Open	Closed	106.3	278
9/6/2024	6:00:00	7.3	1.610	3,958	22.9	Open	Closed	106.3	278
9/6/2024	6:15:00	7.5	1.520	3,958	330.8	Open	Closed	106.3	278

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	6:30:00	7.6	1.440	3,958	28.6	Open	Closed	106.3	280
9/6/2024	6:45:00	7.5	0.469	3,958	2	Open	Closed	106.3	277
9/6/2024	7:00:00	7.5	0.306	3,958	0.7	Closed	Open	106.3	278
9/6/2024	7:15:00	7.5	0.302	3,958	0.6	Closed	Open	106.3	278
9/6/2024	7:30:00	7.5	0.310	3,958	0.7	Closed	Open	106.3	276
9/6/2024	7:45:00	7.5	0.306	3,958	0.9	Closed	Open	106.3	275
9/6/2024	8:00:00	7.5	0.306	3,958	1.9	Closed	Open	106.3	274
9/6/2024	8:15:00	7.6	0.302	3,958	1.3	Closed	Open	106.3	274
9/6/2024	8:30:00	7.6	0.299	3,958	0.9	Closed	Open	106.3	274
9/6/2024	8:45:00	7.6	0.299	3,958	0.8	Closed	Open	106.3	275
9/6/2024	9:00:00	7.6	0.302	3,958	2.1	Closed	Open	106.3	275

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	9:15:00	7.7	0.310	3,958	6.2	Open	Closed	106.3	275
9/6/2024	9:30:00	7.7	0.306	3,958	19.7	Open	Closed	106.3	274
9/6/2024	9:45:00	7.7	0.911	3,958	138.4	Open	Closed	106.3	275
9/6/2024	10:00:00	7.8	0.881	3,958	202.6	Open	Closed	106.3	273
9/6/2024	10:15:00	7.7	0.858	3,958	207.5	Open	Closed	106.3	273
9/6/2024	10:30:00	7	0.847	3,958	161.8	Open	Closed	106.3	272
9/6/2024	10:45:00	7	0.832	3,958	121.7	Open	Closed	106.3	272
9/6/2024	11:00:00	7.2	0.764	3,958	59.1	Open	Closed	106.3	272
9/6/2024	11:15:00	6.9	0.714	3,958	29.8	Open	Closed	106.3	272
9/6/2024	11:30:00	7.1	0.552	3,962	7.1	Open	Closed	106.3	272
9/6/2024	11:45:00	7.3	0.533	3,967	2	Open	Closed	106.3	272

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	12:00:00	6.9	0.525	3,970	1.9	Open	Closed	106.3	271
9/6/2024	12:15:00	6.9	0.503	3,970	2.6	Open	Closed	106.3	273
9/6/2024	12:30:00	7.1	0.499	3,971	6.3	Open	Closed	106.3	271
9/6/2024	12:45:00	7.3	0.495	3,971	12	Open	Closed	106.3	269
9/6/2024	13:00:00	6.9	0.612	3,971	32	Open	Closed	106.3	273
9/6/2024	13:15:00	7	0.658	3,971	204.9	Open	Closed	106.3	271
9/6/2024	13:30:00	7.2	0.696	3,971	412.8	Open	Closed	106.3	272
9/6/2024	13:45:00	6.9	0.866	3,971	412.7	Open	Closed	106.3	272
9/6/2024	14:00:00	7.3	0.843	3,971	412.9	Open	Closed	106.3	273
9/6/2024	14:15:00	7	0.828	3,971	412.9	Open	Closed	106.3	273
9/6/2024	14:30:00	7.2	0.786	3,971	373	Open	Closed	106.3	273

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	14:45:00	7	0.798	3,971	281.5	Open	Closed	106.3	273
9/6/2024	15:00:00	7.3	0.794	3,971	228.8	Open	Closed	106.3	272
9/6/2024	15:15:00	6.8	0.764	3,971	115.9	Open	Closed	106.3	272
9/6/2024	15:30:00	7	0.711	3,971	52.8	Open	Closed	106.3	272
9/6/2024	15:45:00	7.2	0.348	3,971	15.4	Open	Closed	106.3	272
9/6/2024	16:00:00	7.2	0.314	3,971	3.1	Closed	Open	106.3	272
9/6/2024	16:15:00	7.2	0.261	3,971	3.4	Closed	Open	106.3	272
9/6/2024	16:30:00	7.2	0.257	3,971	9.4	Open	Closed	106.3	272
9/6/2024	16:45:00	7	0.567	3,971	23.8	Open	Closed	106.3	272
9/6/2024	17:00:00	6.8	0.631	3,971	43.4	Open	Closed	106.3	272
9/6/2024	17:15:00	7	0.000	3,971	19.8	Open	Closed	106.3	272

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	17:30:00	7.1	0.299	3,971	9	Open	Closed	106.3	272
9/6/2024	17:45:00	7.3	0.000	3,973	15.9	Open	Closed	106.3	274
9/6/2024	18:00:00	6.9	0.261	3,977	19.7	Open	Closed	106.3	274
9/6/2024	18:15:00	6.9	0.000	3,981	23.7	Open	Closed	106.3	273
9/6/2024	18:30:00	7.1	0.310	3,985	35	Open	Closed	106.3	275
9/6/2024	18:45:00	7.2	0.480	3,989	64	Open	Closed	106.3	275
9/6/2024	19:00:00	7.2	0.469	3,993	59.1	Open	Closed	106.3	275
9/6/2024	19:15:00	6.8	0.563	3,997	64.4	Open	Closed	106.3	274
9/6/2024	19:30:00	7.1	0.514	4,001	65.7	Open	Closed	106.3	275
9/6/2024	19:45:00	7.2	0.514	4,005	99.8	Open	Closed	106.3	275
9/6/2024	20:00:00	6.9	0.510	4,010	117.1	Open	Closed	106.3	276

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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	20:15:00	6.7	0.786	4,014	161.6	Open	Closed	106.3	274
9/6/2024	20:30:00	6.9	0.782	4,017	413.1	Open	Closed	106.3	276
9/6/2024	20:45:00	7.3	0.767	4,021	56.2	Open	Closed	106.3	276
9/6/2024	21:00:00	7.3	0.748	4,026	54.8	Open	Closed	106.3	276
9/6/2024	21:15:00	7.4	1.357	4,026	413.3	Open	Closed	106.3	276
9/6/2024	21:30:00	7.4	1.607	4,026	126.5	Open	Closed	106.3	274
9/6/2024	21:45:00	7.4	0.926	4,026	18.1	Open	Closed	106.3	274
9/6/2024	22:00:00	7.4	0.438	4,026	137.9	Open	Closed	106.3	272
9/6/2024	22:15:00	7.4	0.268	4,026	0.4	Closed	Open	106.3	272
9/6/2024	22:30:00	7.4	0.265	4,026	0	Closed	Open	106.3	271
9/6/2024	22:45:00	7.4	0.265	4,026	0	Closed	Open	106.3	270

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/6/2024	23:00:00	7.4	0.268	4,026	0.6	Closed	Open	106.3	270
9/6/2024	23:15:00	7.4	0.261	4,026	0	Closed	Open	106.3	268
9/6/2024	23:30:00	7.4	0.261	4,026	0	Closed	Open	106.3	268
9/6/2024	23:45:00	7.4	0.261	4,028	0	Closed	Open	106.3	268
9/7/2024	0:00:00	7.4	0.261	4,031	0	Closed	Open	106.3	267
9/7/2024	0:15:00	7.4	0.253	4,035	0	Closed	Open	106.3	267
9/7/2024	0:30:00	7.4	0.253	4,039	0.6	Closed	Open	106.3	267
9/7/2024	0:45:00	7.4	0.257	4,044	0.7	Closed	Open	106.3	267
9/7/2024	1:00:00	7.4	0.253	4,048	1.3	Closed	Open	106.3	267
9/7/2024	1:15:00	7.4	0.257	4,052	2	Closed	Open	106.3	267
9/7/2024	1:30:00	7.5	0.253	4,056	4.1	Closed	Open	106.3	267

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	1:45:00	7.9	2.087	4,060	414.1	Open	Closed	106.3	267
9/7/2024	2:00:00	7.2	1.134	4,063	85.9	Open	Closed	106.3	267
9/7/2024	2:15:00	7.2	0.000	4,063	65.8	Open	Closed	106.3	267
9/7/2024	2:30:00	6.9	1.213	4,063	53.2	Open	Closed	106.3	267
9/7/2024	2:45:00	6.9	1.126	4,063	386.3	Open	Closed	106.3	267
9/7/2024	3:00:00	7.4	1.036	4,063	268.5	Open	Closed	106.3	268
9/7/2024	3:15:00	6.9	0.627	4,063	88.1	Open	Closed	106.3	268
9/7/2024	3:30:00	7.1	1.013	4,063	59.5	Open	Closed	106.3	268
9/7/2024	3:45:00	7.3	0.971	4,063	30.5	Open	Closed	106.3	267
9/7/2024	4:00:00	7	0.533	4,063	13.8	Open	Closed	106.3	267
9/7/2024	4:15:00	7.1	0.272	4,063	2.3	Closed	Open	106.3	267

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	4:30:00	7.2	0.261	4,063	1.5	Closed	Open	106.3	268
9/7/2024	4:45:00	7.3	0.265	4,063	1.2	Closed	Open	106.3	268
9/7/2024	5:00:00	7.1	0.261	4,063	0.8	Closed	Open	106.3	268
9/7/2024	5:15:00	6.7	0.261	4,063	0.6	Closed	Open	106.3	268
9/7/2024	5:30:00	6.7	0.261	4,063	0.7	Closed	Open	106.3	274
9/7/2024	5:45:00	6.9	0.261	4,063	1.3	Closed	Open	106.3	273
9/7/2024	6:00:00	7	0.261	4,063	2.3	Closed	Open	106.3	273
9/7/2024	6:15:00	7.1	0.265	4,063	3.9	Closed	Open	106.3	277
9/7/2024	6:30:00	7.3	0.730	4,063	303.6	Open	Closed	106.3	277
9/7/2024	6:45:00	7.2	1.429	4,063	414.4	Open	Closed	106.3	274
9/7/2024	7:00:00	7	1.421	4,063	286.8	Open	Closed	106.3	277

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	7:15:00	7.1	1.210	4,063	190.8	Open	Closed	106.3	270
9/7/2024	7:30:00	7.1	0.000	4,063	414.3	Open	Closed	106.3	272
9/7/2024	7:45:00	7.1	0.000	4,063	219.3	Open	Closed	106.3	276
9/7/2024	8:00:00	7.1	0.000	4,067	265.9	Open	Closed	106.3	277
9/7/2024	8:15:00	7.1	0.828	4,072	90.7	Open	Closed	106.3	271
9/7/2024	8:30:00	7.2	0.748	4,077	131.3	Open	Closed	106.3	273
9/7/2024	8:45:00	7	0.809	4,081	182.5	Open	Closed	106.3	275
9/7/2024	9:00:00	7.2	0.801	4,086	180.1	Open	Closed	106.3	275
9/7/2024	9:15:00	7	0.816	4,091	154.6	Open	Closed	106.3	275
9/7/2024	9:30:00	7	0.726	4,096	120.7	Open	Closed	106.3	273
9/7/2024	9:45:00	7.2	0.790	4,100	145.6	Open	Closed	106.3	272

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	10:00:00	7	0.696	4,105	117.4	Open	Closed	106.3	272
9/7/2024	10:15:00	7.1	0.000	4,107	140.6	Open	Closed	106.3	272
9/7/2024	10:30:00	7.2	0.760	4,107	121.2	Open	Closed	106.3	272
9/7/2024	10:45:00	6.9	0.741	4,107	102.8	Open	Closed	106.3	272
9/7/2024	11:00:00	7.2	0.741	4,107	102.3	Open	Closed	106.3	272
9/7/2024	11:15:00	7.1	0.775	4,107	90.6	Open	Closed	106.3	274
9/7/2024	11:30:00	7.1	0.748	4,107	88.8	Open	Closed	106.3	274
9/7/2024	11:45:00	7.2	0.741	4,107	111.2	Open	Closed	106.3	274
9/7/2024	12:00:00	7.2	0.344	4,107	11.3	Open	Closed	106.3	274
9/7/2024	12:15:00	7	0.321	4,107	4.8	Open	Closed	106.3	273
9/7/2024	12:30:00	6.9	0.321	4,107	1.4	Closed	Open	106.3	273

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	12:45:00	7	0.318	4,107	0.7	Closed	Open	106.3	273
9/7/2024	13:00:00	7.1	0.302	4,107	0.2	Closed	Open	106.3	273
9/7/2024	13:15:00	7.1	0.318	4,107	0.1	Closed	Open	106.3	273
9/7/2024	13:30:00	7.2	0.314	4,107	0	Closed	Open	106.3	272
9/7/2024	13:45:00	7.2	0.302	4,107	0	Closed	Open	106.3	272
9/7/2024	14:00:00	7.2	0.299	4,107	0	Closed	Open	106.3	272
9/7/2024	14:15:00	7.2	0.310	4,107	1	Closed	Open	106.3	273
9/7/2024	14:30:00	7.2	0.310	4,107	3.3	Closed	Open	106.3	273
9/7/2024	14:45:00	6.9	0.673	4,107	111.7	Open	Closed	106.3	272
9/7/2024	15:00:00	7	0.393	4,107	224.6	Open	Closed	106.3	272
9/7/2024	15:15:00	7.1	0.382	4,107	409.5	Open	Closed	106.3	272

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	15:30:00	7.6	0.374	4,107	12	Open	Closed	20.9	272
9/7/2024	15:45:00	6.8	0.404	4,107	412.7	Open	Closed	20.1	268
9/7/2024	16:00:00	7	0.654	4,107	412.6	Open	Closed	20.2	268
9/7/2024	16:15:00	7.2	0.643	4,107	332.4	Open	Closed	20.4	270
9/7/2024	16:30:00	7.1	0.847	4,107	412.5	Open	Closed	20.4	272
9/7/2024	16:45:00	7.1	0.525	4,107	274	Open	Closed	20.4	272
9/7/2024	17:00:00	7.2	0.522	4,107	185.4	Open	Closed	20.4	274
9/7/2024	17:15:00	7.2	0.507	4,107	162.2	Open	Closed	20.5	274
9/7/2024	17:30:00	6.9	0.522	4,107	130.9	Open	Closed	20.5	273
9/7/2024	17:45:00	7	0.518	4,107	127.4	Open	Closed	20.5	272
9/7/2024	18:00:00	7.2	0.522	4,107	126.4	Open	Closed	20.5	273

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	18:15:00	7.2	0.333	4,109	133.2	Open	Closed	20.5	273
9/7/2024	18:30:00	7.3	0.000	4,113	129.1	Open	Closed	20.4	273
9/7/2024	18:45:00	6.8	0.302	4,117	142.8	Open	Closed	20.4	273
9/7/2024	19:00:00	6.8	0.450	4,122	207.4	Open	Closed	20.4	274
9/7/2024	19:15:00	7	0.480	4,126	237.4	Open	Closed	20.4	276
9/7/2024	19:30:00	7.1	0.344	4,130	127.7	Open	Closed	20.3	276
9/7/2024	19:45:00	7.2	0.352	4,134	106.6	Open	Closed	20.3	278
9/7/2024	20:00:00	7.3	0.355	4,138	116.5	Open	Closed	20.3	278
9/7/2024	20:15:00	6.9	0.680	4,142	413.4	Open	Closed	19.9	279
9/7/2024	20:30:00	7.2	0.915	4,146	331.5	Open	Closed	19.6	279
9/7/2024	20:45:00	7.2	0.907	4,150	293.3	Open	Closed	19.5	279

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	21:00:00	7.4	1.058	4,152	254.4	Open	Closed	19.3	279
9/7/2024	21:15:00	7	0.000	4,152	123.3	Open	Closed	19.2	279
9/7/2024	21:30:00	7.5	2.090	4,152	169.8	Open	Closed	19.9	274
9/7/2024	21:45:00	7.5	0.654	4,152	52.5	Open	Closed	19	272
9/7/2024	22:00:00	7.4	0.333	4,152	52.5	Open	Closed	18.9	271
9/7/2024	22:15:00	7.4	0.348	4,152	2.7	Open	Closed	18.8	269
9/7/2024	22:30:00	7.4	0.340	4,152	1.2	Open	Closed	18.8	271
9/7/2024	22:45:00	7.4	0.295	4,152	1.2	Closed	Open	18.8	271
9/7/2024	23:00:00	7.4	0.291	4,152	0.7	Closed	Open	18.9	271
9/7/2024	23:15:00	7.4	0.291	4,152	1.3	Closed	Open	18.8	270
9/7/2024	23:30:00	7.5	0.291	4,157	0.5	Closed	Open	18.8	271

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/7/2024	23:45:00	7.5	0.291	4,162	0.3	Closed	Open	18.8	271
9/8/2024	0:00:00	7.5	0.287	4,167	0.3	Closed	Open	18.8	269
9/8/2024	0:15:00	7.5	0.287	4,171	0.5	Closed	Open	18.7	269
9/8/2024	0:30:00	7.5	0.284	4,176	0.9	Closed	Open	18.7	269
9/8/2024	0:45:00	7.5	0.287	4,181	1.4	Closed	Open	18.6	269
9/8/2024	1:00:00	7.5	0.284	4,186	1.6	Closed	Open	18.6	269
9/8/2024	1:15:00	7.5	0.284	4,190	2.4	Closed	Open	18.5	269
9/8/2024	1:30:00	7.8	0.922	4,195	414.1	Open	Closed	18.5	269
9/8/2024	1:45:00	7.9	0.000	4,200	414	Open	Closed	18.3	267
9/8/2024	2:00:00	8	1.017	4,205	414	Open	Closed	18.3	271
9/8/2024	2:15:00	7.1	1.024	4,209	414	Open	Closed	18.3	271

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	2:30:00	7.1	1.021	4,214	414	Open	Closed	18.3	270
9/8/2024	2:45:00	7.1	1.021	4,219	346.5	Open	Closed	18.4	271
9/8/2024	3:00:00	7.5	1.021	4,221	205.9	Open	Closed	18.4	271
9/8/2024	3:15:00	7.6	0.888	4,221	102.2	Open	Closed	18.4	271
9/8/2024	3:30:00	7.6	0.892	4,221	44.4	Open	Closed	18.5	264
9/8/2024	3:45:00	7.4	0.302	4,221	1.9	Closed	Open	18.5	262
9/8/2024	4:00:00	7.4	0.306	4,221	0.8	Closed	Open	18.6	262
9/8/2024	4:15:00	7.5	0.310	4,221	0.8	Closed	Open	18.6	264
9/8/2024	4:30:00	7.5	0.310	4,221	0.7	Closed	Open	18.7	265
9/8/2024	4:45:00	7.5	0.310	4,221	0.6	Closed	Open	18.6	267
9/8/2024	5:00:00	7.5	0.310	4,221	0.4	Closed	Open	18.6	267

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	5:15:00	7.5	0.310	4,221	0.3	Closed	Open	18.6	267
9/8/2024	5:30:00	7.5	0.310	4,221	0.4	Closed	Open	18.6	267
9/8/2024	5:45:00	7.5	0.306	4,221	0.2	Closed	Open	18.5	267
9/8/2024	6:00:00	7.5	0.310	4,221	0.2	Closed	Open	18.5	267
9/8/2024	6:15:00	7.4	0.306	4,224	0.1	Closed	Open	18.4	267
9/8/2024	6:30:00	7.1	0.302	4,228	0.3	Closed	Open	18.4	267
9/8/2024	6:45:00	7	0.310	4,232	0.3	Closed	Open	18.4	270
9/8/2024	7:00:00	7.1	0.306	4,236	1.5	Closed	Open	18.3	272
9/8/2024	7:15:00	7.2	0.302	4,240	3.6	Closed	Open	18.3	272
9/8/2024	7:30:00	7.3	0.620	4,244	88.3	Open	Closed	18.3	270
9/8/2024	7:45:00	7.1	0.631	4,249	71.4	Open	Closed	18.1	269

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	8:00:00	7.3	0.612	4,254	85.7	Open	Closed	18.1	271
9/8/2024	8:15:00	7.1	0.612	4,256	116.7	Open	Closed	18.1	270
9/8/2024	8:30:00	7.2	0.605	4,256	132.1	Open	Closed	18.1	269
9/8/2024	8:45:00	7.1	0.616	4,256	118.1	Open	Closed	18.2	265
9/8/2024	9:00:00	7.2	0.605	4,256	110.2	Open	Closed	18.2	266
9/8/2024	9:15:00	7.3	0.457	4,256	70.6	Open	Closed	18.2	266
9/8/2024	9:30:00	7.2	0.284	4,256	38.7	Open	Closed	18.3	269
9/8/2024	9:45:00	7.2	0.382	4,256	0.1	Open	Closed	18.3	271
9/8/2024	10:00:00	7.1	0.000	4,257	104.8	Open	Closed	18.2	271
9/8/2024	10:15:00	7.3	0.609	4,261	111	Open	Closed	18.2	270
9/8/2024	10:30:00	7.2	0.261	4,265	5.6	Open	Closed	18.2	265

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	10:45:00	7	0.257	4,269	1.2	Closed	Open	18.3	269
9/8/2024	11:00:00	7	0.261	4,273	0.2	Closed	Open	18.4	271
9/8/2024	11:15:00	7.1	0.257	4,277	0	Closed	Open	18.5	267
9/8/2024	11:30:00	7.2	0.253	4,279	0	Closed	Open	18.6	264
9/8/2024	11:45:00	7.2	0.249	4,279	0	Closed	Open	18.7	261
9/8/2024	12:00:00	7.3	0.276	4,279	0.3	Closed	Open	18.8	261
9/8/2024	12:15:00	7.1	0.321	4,279	1.2	Closed	Open	18.9	264
9/8/2024	12:30:00	7	0.321	4,279	1.3	Closed	Open	18.9	269
9/8/2024	12:45:00	7.1	0.431	4,279	35.9	Open	Closed	19	269
9/8/2024	13:00:00	7.2	0.249	4,279	5.8	Open	Closed	19	264
9/8/2024	13:15:00	7.3	0.242	4,279	6.3	Open	Closed	19.1	261

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	


Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	13:30:00	-0.4	0.461	4,279	54.7	Open	Closed	19.3	262
9/8/2024	13:45:00	-0.4	0.276	4,279	24.9	Open	Closed	19.3	269
9/8/2024	14:00:00	-0.4	0.208	4,279	93.1	Open	Closed	19.4	268
9/8/2024	14:15:00	8.6	0.408	4,279	31	Open	Closed	19.8	258
9/8/2024	14:30:00	7.2	0.257	4,279	3.4	Closed	Open	19.5	258
9/8/2024	14:45:00	7	0.253	4,279	1.4	Closed	Open	19.5	261
9/8/2024	15:00:00	7	0.253	4,279	1.1	Closed	Open	19.6	265
9/8/2024	15:15:00	7.1	0.253	4,279	0.8	Closed	Open	19.7	264
9/8/2024	15:30:00	7.2	0.253	4,279	3.4	Closed	Open	19.8	261
9/8/2024	15:45:00	7.3	0.253	4,279	2.7	Closed	Open	19.9	259
9/8/2024	16:00:00	7.1	0.321	4,279	22.7	Open	Closed	19.9	262

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	16:15:00	7	0.318	4,279	70.5	Open	Closed	19.9	268
9/8/2024	16:30:00	7.2	0.355	4,279	180.3	Open	Closed	19.9	268
9/8/2024	16:45:00	7.2	0.382	4,279	413	Open	Closed	20.1	265
9/8/2024	17:00:00	7.1	0.816	4,279	413	Open	Closed	20.3	265
9/8/2024	17:15:00	7.3	0.000	4,279	413	Open	Closed	20.7	260
9/8/2024	17:30:00	7.2	0.764	4,279	413	Open	Closed	21	257
9/8/2024	17:45:00	7.1	0.593	4,279	413.1	Open	Closed	21	253
9/8/2024	18:00:00	7.3	0.563	4,279	413.1	Open	Closed	21	253
9/8/2024	18:15:00	7.1	0.567	4,279	413.1	Open	Closed	21	252
9/8/2024	18:30:00	7.3	0.941	4,279	413.2	Open	Closed	20.9	253
9/8/2024	18:45:00	7.3	0.669	4,279	413.2	Open	Closed	20.7	251

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	19:00:00	7	0.495	4,279	413.3	Open	Closed	20.6	250
9/8/2024	19:15:00	7.2	0.473	4,279	413.3	Open	Closed	20.6	246
9/8/2024	19:30:00	7.3	0.473	0	331.1	Open	Closed	20.6	242
9/8/2024	19:45:00	7	0.473	0	238.4	Open	Closed	20.5	241
9/8/2024	20:00:00	7.1	0.469	0	232.7	Open	Closed	20.4	244
9/8/2024	20:15:00	7.6	0.794	0	413.4	Open	Closed	20.1	242
9/8/2024	20:30:00	7.1	0.635	0	176.6	Open	Closed	19.8	242
9/8/2024	20:45:00	7.1	0.627	0	161.5	Open	Closed	19.7	241
9/8/2024	21:00:00	7.4	0.620	0	154.9	Open	Closed	19.5	239
9/8/2024	21:15:00	7.1	0.941	0	117	Open	Closed	19.3	238
9/8/2024	21:30:00	7.1	0.442	0	383.8	Open	Closed	19.1	241


		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Date	Time	Discharge pH	Flow Rate (m3/m)	Flow Total (m3)	Discharge NTU	Recirc Valve Status	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/8/2024	21:45:00	7.1	0.960	0	134.2	Open	Closed	18.8	241
9/8/2024	22:00:00	7.1	0.964	0	195.5	Open	Closed	18.5	242
9/8/2024	22:15:00	7.2	0.616	0	239.4	Open	Closed	18.4	242
9/8/2024	22:30:00	7.1	0.964	0	222.1	Open	Closed	18.3	243
9/8/2024	22:45:00	7.2	1.281	0	413.9	Open	Closed	18.7	242
9/8/2024	23:00:00	7.3	1.591	0	306.9	Open	Closed	17.9	246
9/8/2024	23:15:00	7.1	0.000	0	143.7	Open	Closed	17.8	247
9/8/2024	23:30:00	7.2	0.537	0	22.2	Open	Closed	18.1	249
9/8/2024	23:45:00	7.1	0.329	0	9.9	Open	Closed	18	249



Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

 FRONTIER-KEMPER MICHELS ® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: SD Approved by: BC2 Date: September 16 th	

Appendix B: Photos

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Photo 1: No visible sheen observed in the WTP tank, September 4th

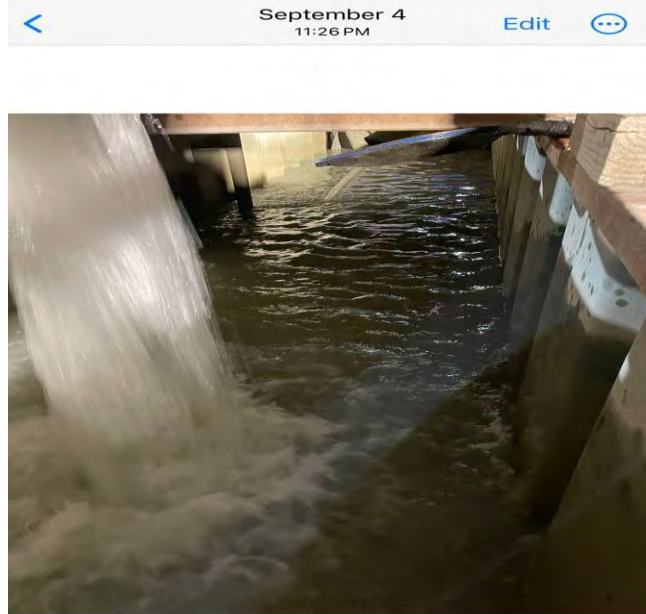
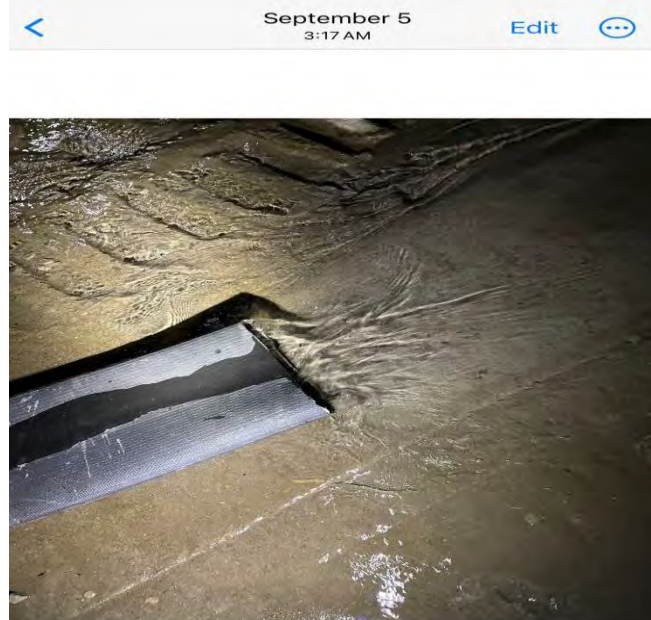


Photo 2: No visible sheen observed in the WTP water, September 5th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Photo 3: No visible sheen observed in the WTP water, September 6th

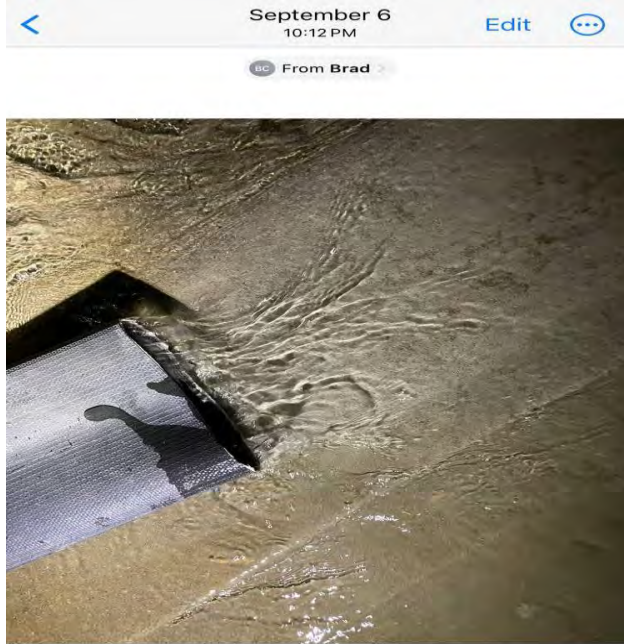
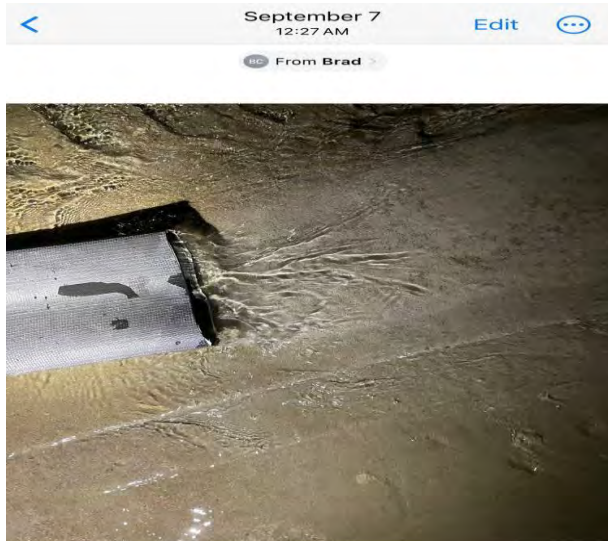


Photo 4: No visible sheen observed in the WTP water, September 7th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 2nd to September 8th	Prepared by: Approved by: Date:	SD BC2 September 16th

Photo 5: No visible sheen observed in the WTP tank, September 9th





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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix C	C-3

Woodfibre Site Sample Lab Documentation



CERTIFICATE OF ANALYSIS

Work Order : **VA24C2986**
Client : **Triton Environmental Consultants Ltd.**
Contact :
Address :

Telephone :
Project : 11964
PO : 11964 - TASK 20 - Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 10
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 04-Sep-2024 17:40
Date Analysis Commenced : 05-Sep-2024
Issue Date : 13-Sep-2024 11:00

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
<div style="background-color: #cccccc; width: 100%; height: 100%;"></div>		Inorganics, Edmonton, Alberta
		Metals, Burnaby, British Columbia
		Inorganics, Waterloo, Ontario
		Metals, Waterloo, Ontario
		Inorganics, Calgary, Alberta
		Organics, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Administration, Burnaby, British Columbia
	Inorganics, Burnaby, British Columbia	
	Metals, Burnaby, British Columbia	



General Comments

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

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

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

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

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

<i>Unit</i>	<i>Description</i>
-	no units
°C	degrees celsius
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

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



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG EOP	---	---	---	---
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Field Tests										
Conductivity, field	---	EF001/VA	0.10	µS/cm	148.00	---	---	---	---	
pH, field	---	EF001/VA	0.10	pH units	7.15	---	---	---	---	
Temperature, field	---	EF001/VA	0.10	°C	16.8	---	---	---	---	
Physical Tests										
Hardness (as CaCO3), dissolved	---	EC100/VA	0.60	mg/L	56.9	---	---	---	---	
Hardness (as CaCO3), from total Ca/Mg	---	EC100A/VA	0.60	mg/L	55.5	---	---	---	---	
Solids, total dissolved [TDS]	---	E162/VA	10	mg/L	76	---	---	---	---	
Solids, total suspended [TSS]	---	E160/VA	3.0	mg/L	<3.0	---	---	---	---	
Alkalinity, total (as CaCO3)	---	E290/VA	2.0	mg/L	65.2	---	---	---	---	
Anions and Nutrients										
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	2.62	---	---	---	---	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.298	---	---	---	---	
Nitrate (as N)	14797-55-8	E235.NO3-L/V A	0.0050	mg/L	0.0106	---	---	---	---	
Nitrite (as N)	14797-65-0	E235.NO2-L/V A	0.0010	mg/L	0.0011	---	---	---	---	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.217	---	---	---	---	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0025	---	---	---	---	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	6.01	---	---	---	---	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	---	E358-L/CG	0.50	mg/L	0.60	---	---	---	---	
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/VA	0.0015	mg/L	<0.0015	---	---	---	---	
Sulfide, un-ionized (as H2S), from total	7783-06-4	EC395/VA	0.0015	mg/L	<0.0015	---	---	---	---	
Sulfide, total (as H2S)	7783-06-4	E395/VA	0.0016	mg/L	<0.0016	---	---	---	---	
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0245	---	---	---	---	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00084	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00094	---	---	---	---	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00791	---	---	---	---	
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 ^{DLM}	---	---	---	---	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	20.6	---	---	---	---	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000041	---	---	---	---	
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	0.036	---	---	---	---	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	<0.000050	---	---	---	---	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0090	---	---	---	---	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	0.986	---	---	---	---	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0122	---	---	---	---	
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	---	---	---	---	
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.0223	---	---	---	---	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	0.00051	---	---	---	---	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	---	---	---	---	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	3.66	---	---	---	---	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00698	---	---	---	---	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000085	---	---	---	---	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	5.89	---	---	---	---	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	---	---	---	---	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	5.02	---	---	---	---	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0514	---	---	---	---	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	1.82	---	---	---	---	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	0.000028	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Total Metals										
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	0.00058	---	---	---	---	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	0.00118	---	---	---	---	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.000319	---	---	---	---	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	<0.00050	---	---	---	---	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0040	---	---	---	---	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L	0.0100	---	---	---	---	
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	0.00082	---	---	---	---	
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00097	---	---	---	---	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00785	---	---	---	---	
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	0.022	---	---	---	---	
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000100 ^{DLM}	---	---	---	---	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	21.1	---	---	---	---	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	0.000039	---	---	---	---	
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	<0.00020	---	---	---	---	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	<0.010	---	---	---	---	
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	<0.000050	---	---	---	---	
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	0.0084	---	---	---	---	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	1.02	---	---	---	---	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.0111	---	---	---	---	
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L	<0.0000050	---	---	---	---	
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L	0.0214	---	---	---	---	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Dissolved Metals										
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	---	---	---	---	
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	3.51	---	---	---	---	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00727	---	---	---	---	
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	0.000096	---	---	---	---	
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	5.60	---	---	---	---	
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L	<0.000010	---	---	---	---	
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L	5.01	---	---	---	---	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0474	---	---	---	---	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	1.82	---	---	---	---	
Tellurium, dissolved	13494-80-9	E421/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L	0.000025	---	---	---	---	
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	0.00106	---	---	---	---	
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000430	---	---	---	---	
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	<0.00050	---	---	---	---	
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	0.0035	---	---	---	---	
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	---	---	---	---	
Speciated Metals										
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	---	---	---	---	
Aggregate Organics										
Phenols, total (4AAP)	----	E562/EO	0.0010	mg/L	<0.0010	---	---	---	---	
Volatile Organic Compounds										
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					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Volatile Organic Compounds										
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	---	---	---	---	
Volatile Organic Compounds [Drycleaning]										
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	---	---	---	---	
Volatile Organic Compounds [Fuels]										
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	14.5	---	---	---	---	
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					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
Result						----	----	----	----	
Volatile Organic Compounds [Fuels]										
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	----	----	----	----	
Volatile Organic Compounds [THMs]										
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	----	----	----	----	
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	250	µg/L	<250	----	----	----	----	
EPH (C19-C32)	----	E601A/VA	250	µg/L	<250	----	----	----	----	
VHw (C6-C10)	----	E581.VH+F1/ 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	----	----	----	----	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%	91.3	----	----	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/ VA	1.0	%	106	----	----	----	----	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611C/VA	1.0	%	94.8	----	----	----	----	
Difluorobenzene, 1,4-	540-36-3	E611C/VA	1.0	%	99.3	----	----	----	----	
Polycyclic Aromatic Hydrocarbons										
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+)fluoranthene	n/a	E641A/VA	0.010	µg/L	<0.010	----	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:02	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2986-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Polycyclic Aromatic Hydrocarbons										
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	0.038	---	---	---	---	
Methylnaphthalene, 2-	91-57-6	E641A/VA	0.010	µg/L	0.043	---	---	---	---	
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	---	---	---	---	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/VA	0.1	%	106	---	---	---	---	
Naphthalene-d8	1146-65-2	E641A/VA	0.1	%	99.9	---	---	---	---	
Phenanthrene-d10	1517-22-2	E641A/VA	0.1	%	103	---	---	---	---	
Glycols										
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	---	---	---	---	
Glycols Surrogates										
Propanediol, 1,3-	504-63-2	E680E/VA	1.0	%	100	---	---	---	---	

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

<p>Work Order : VA24C2986</p> <p>Client : Triton Environmental Consultants Ltd.</p> <p>Contact : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : ----</p> <p>Project : 11964</p> <p>PO : 11964 - TASK 20 - Phase 3C-4C</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Water Analysis</p> <p>Quote number : VA23-TRIT100-012_V2</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 15</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : [REDACTED]</p> <p>Date Samples Received : 04-Sep-2024 17:40</p> <p>Issue Date : 13-Sep-2024 11:00</p>
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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.

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
- Matrix Spike outliers occur - please see following pages for full details.
- 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.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Matrix Spike (MS) Recoveries								
Hydrocarbons	Anonymous	Anonymous	VHw (C6-C10)	----	E581.VH+F1	52.0 % ^K	60.0-140%	Recovery less than lower data quality objective

Result Qualifiers

Qualifier	Description
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.



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		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) WLNG EOP	E562	04-Sep-2024	11-Sep-2024	28 days	7 days	✔	11-Sep-2024	28 days	7 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG EOP	E298	04-Sep-2024	10-Sep-2024	28 days	6 days	✔	12-Sep-2024	28 days	8 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG EOP	E235.Br-L	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG EOP	E235.Cl	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG EOP	E235.F	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO3-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✔	05-Sep-2024	3 days	1 days	✔
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO2-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✔	05-Sep-2024	3 days	1 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG EOP	E235.SO4	04-Sep-2024	05-Sep-2024	28 days	1 days	✓	05-Sep-2024	28 days	1 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG EOP	E366	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	10-Sep-2024	28 days	6 days	✓	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)											
Amber glass total (sulfuric acid) WLNG EOP	E372-U	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	12-Sep-2024	28 days	8 days	✓	
Dissolved Metals : Dissolved Mercury in Water by CVAAS											
Glass vial - dissolved (lab preserved) WLNG EOP	E509	04-Sep-2024	12-Sep-2024	28 days	8 days	✓	12-Sep-2024	28 days	8 days	✓	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE - dissolved (lab preserved) WLNG EOP	E421	04-Sep-2024	12-Sep-2024	180 days	8 days	✓	12-Sep-2024	180 days	8 days	✓	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine											
Glass vial - total (lab preserved) WLNG EOP	EF001	04-Sep-2024	----	----	----		09-Sep-2024	----	5 days		
Glycols : Glycols (4 analytes) by GC-FID											
Glass vial WLNG EOP	E680E	04-Sep-2024	05-Sep-2024	7 days	1 days	✓	05-Sep-2024	40 days	0 days	✓	
Hydrocarbons : BC PHCs - EPH by GC-FID											
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E601A	04-Sep-2024	07-Sep-2024	14 days	3 days	✓	09-Sep-2024	40 days	3 days	✓	
Hydrocarbons : VH and F1 by Headspace GC-FID											
Glass vial (sodium bisulfate) WLNG EOP	E581.VH+F1	04-Sep-2024	07-Sep-2024	14 days	3 days	✓	07-Sep-2024	14 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) WLNG EOP	E358-L	04-Sep-2024	06-Sep-2024	28 days	2 days	✓	06-Sep-2024	28 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WLNG EOP	E290	04-Sep-2024	05-Sep-2024	14 days	1 days	✓	07-Sep-2024	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WLNG EOP	E162	04-Sep-2024	----	----	----		11-Sep-2024	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WLNG EOP	E160	04-Sep-2024	----	----	----		10-Sep-2024	7 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E641A	04-Sep-2024	07-Sep-2024	14 days	3 days	✓	08-Sep-2024	40 days	2 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) WLNG EOP	E532	04-Sep-2024	----	----	----		09-Sep-2024	28 days	5 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) WLNG EOP	E508	04-Sep-2024	12-Sep-2024	28 days	8 days	✓	12-Sep-2024	28 days	8 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG EOP	E420	04-Sep-2024	12-Sep-2024	180 days	8 days	✓	12-Sep-2024	180 days	9 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG EOP	E395	04-Sep-2024	----	----	----		05-Sep-2024	7 days	1 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS										
Glass vial (sodium bisulfate) WLNG EOP	E611C	04-Sep-2024	07-Sep-2024	14 days	3 days	✔	07-Sep-2024	14 days	3 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	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Glycols (4 analytes) by GC-FID	E680E	1634323	1	3	33.3	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Phenols (4AAP) in Water by Colorimetry	E562	1644993	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1646759	1	4	25.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637755	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1638805	1	9	11.1	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1638807	1	12	8.3	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
BC PHCs - EPH by GC-FID	E601A	1638046	1	17	5.8	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Glycols (4 analytes) by GC-FID	E680E	1634323	1	3	33.3	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔



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
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
PAHs in Water by Hexane LVI GC-MS	E641A	1638047	1	6	16.6	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1644993	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✓
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1646759	1	4	25.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1637755	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✓
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1638805	1	9	11.1	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1638807	1	12	8.3	5.0	✓
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✓
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1638046	1	17	5.8	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✓
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✓
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1634323	1	3	33.3	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1638047	1	6	16.6	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1644993	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✓
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1646759	1	4	25.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1637755	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✓
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1638805	1	9	11.1	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1638807	1	12	8.3	5.0	✓



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
<i>Analytical Methods</i>							
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Phenols (4AAP) in Water by Colorimetry	E562	1644993	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1646759	1	4	25.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637755	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1638805	1	9	11.1	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1638807	1	12	8.3	5.0	✔



Methodology References and Summaries

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

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



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



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Water	APHA 3500-Cr C (Ion Chromatography)	Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection. Results are based on an un-filtered, field-preserved sample.
Phenols (4AAP) in Water by Colorimetry	E562 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 (K ₃ Fe(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 ALS Environmental - Vancouver	Water	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	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. 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.
BC PHCs - EPH by GC-FID	E601A 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 ALS Environmental - Vancouver	Water	EPA 8260D (mod)	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. Total Xylenes is the sum of m,p-Xylene & o-Xylene. Total BTEX is the sum of Benzene, Toluene, Ethylbenzene, & Total Xylenes. Total BTEX+Styrene is the sum of Total BTEX & Styrene. Total Trihalomethanes [THMs] is the sum of Bromodichloromethane, Bromoform, Chloroform, & Dibromochloromethane.
PAHs in Water by Hexane LVI GC-MS	E641A 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 ALS Environmental - Vancouver	Water	EPA 8015D (mod)	Derivatized glycols are analyzed by GC-FID.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters.
Un-ionized Total Hydrogen Sulfide (calculated)	EC395 ALS Environmental - Vancouver	Water	APHA 4500 -S H	Un-ionized sulfide is calculated using results from total sulfide analysis, pH, temperature, and ionic strength of the sample. Calculation of un-ionized sulfide using total sulfide concentrations may be biased high due to particulate forms of sulfide measured during total sulfide testing.
Total Trivalent Chromium (Cr III) by Calculation	EC535 ALS Environmental - 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 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 C6-C10) minus benzene, toluene, ethylbenzene, xylenes (BTEX) and styrene.
LEPH and HEPH: EPH-PAH	EC600A 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 ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine	EF001 ALS Environmental - Vancouver	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.

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



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 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 a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 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 ALS Environmental - Vancouver	Water	EPA 8015D (mod)	Aqueous sample is derivatized and extracted with organic solvent.

QUALITY CONTROL REPORT

Work Order : **VA24C2986**
Client : Triton Environmental Consultants Ltd.
Contact :
Address :

Telephone :
Project : 11964
PO : 11964 - TASK 20 - Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 23
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 04-Sep-2024 17:40
Date Analysis Commenced : 05-Sep-2024
Issue Date : 13-Sep-2024 11:00

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
		Edmonton Inorganics, Edmonton, Alberta
		Vancouver Metals, Burnaby, British Columbia
		Waterloo Inorganics, Waterloo, Ontario
		Waterloo Metals, Waterloo, Ontario
		Calgary Inorganics, Calgary, Alberta
		Vancouver Organics, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia
		Vancouver Administration, Burnaby, British Columbia
		Vancouver Inorganics, Burnaby, British Columbia
		Vancouver Metals, Burnaby, British Columbia

Page : 2 of 23
Work Order : VA24C2986
Client : Triton Environmental Consultants Ltd.
Project : 11964



General Comments

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

Key :

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

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

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

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

Workorder Comments

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



Laboratory Duplicate (DUP) Report

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

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1634694)											
VA24C2714-003	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	110	110	0.0910%	20%	----
Physical Tests (QC Lot: 1643895)											
FJ2402673-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1643899)											
FJ2402673-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	2080	2080	0.312%	20%	----
Anions and Nutrients (QC Lot: 1634696)											
VA24C2714-001	Anonymous	Fluoride	16984-48-8	E235.F	0.400	mg/L	<0.400	<0.400	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634697)											
VA24C2714-001	Anonymous	Chloride	16887-00-6	E235.Cl	10.0	mg/L	<10.0	<10.0	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634698)											
VA24C2714-001	Anonymous	Bromide	24959-67-9	E235.Br-L	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634700)											
VA24C2714-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634701)											
VA24C2714-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0200	mg/L	<0.0200	<0.0200	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634702)											
VA24C2714-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	6.00	mg/L	2090	2080	0.547%	20%	----
Anions and Nutrients (QC Lot: 1641814)											
VA24C2985-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.098	0.094	0.005	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641815)											
VA24C2985-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0060	0.0069	0.0009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641816)											
VA24C2721-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0366	0.0369	0.0003	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1637370)											
CG2412609-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	10.8	10.5	3.02%	20%	----
Total Sulfides (QC Lot: 1635203)											
TY2409694-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.0046	0.0044	0.0001	Diff <2x LOR	----
Total Metals (QC Lot: 1637755)											
VA24C2710-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0100	mg/L	2.46	2.50	1.41%	20%	----
		Antimony, total	7440-36-0	E420	0.00050	mg/L	<0.00050	<0.00050	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
Total Metals (QC Lot: 1637755) - continued											
VA24C2710-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00346	0.00363	4.71%	20%	----
		Barium, total	7440-39-3	E420	0.0200	mg/L	0.0850	0.0841	0.00089	Diff <2x LOR	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	0.000097	0.000084	0.000013	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	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.000200	mg/L	<0.000200	<0.000200	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.100	mg/L	87.2	83.7	4.17%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000359	0.000363	1.21%	20%	----
		Chromium, total	7440-47-3	E420	0.00200	mg/L	0.00573	0.00582	0.00008	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00168	0.00168	0.0974%	20%	----
		Copper, total	7440-50-8	E420	0.00100	mg/L	0.0118	0.0118	0.319%	20%	----
		Iron, total	7439-89-6	E420	0.030	mg/L	4.11	4.15	0.918%	20%	----
		Lead, total	7439-92-1	E420	0.000500	mg/L	0.00184	0.00189	0.000052	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0035	0.0034	0.00007	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	26.9	26.8	0.413%	20%	----
		Manganese, total	7439-96-5	E420	0.00200	mg/L	0.141	0.142	0.336%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00182	0.00183	0.408%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00460	0.00479	0.00020	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.137	0.162	0.025	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.100	mg/L	2.66	2.63	1.32%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00232	0.00239	2.73%	20%	----
		Selenium, total	7782-49-2	E420	0.00100	mg/L	0.00217	0.00203	0.000142	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	12.8	12.8	0.510%	20%	----
		Sodium, total	7440-23-5	E420	2.00	mg/L	9.27	9.17	0.097	Diff <2x LOR	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.942	0.958	1.61%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	35.0	34.7	0.584%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	0.00020	<0.00020	0.000002	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	0.000027	0.000029	0.000002	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00010	mg/L	0.00061	0.00063	0.00002	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	0.134	0.136	1.12%	20%	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000100	mg/L	0.00637	0.00651	2.21%	20%	----
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00798	0.00806	1.06%	20%	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1637755) - continued											
VA24C2710-001	Anonymous	Zinc, total	7440-66-6	E420	0.0500	mg/L	<0.0500	<0.0500	0	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	0.00040	0.00039	0.000008	Diff <2x LOR	----
Total Metals (QC Lot: 1646759)											
VA24C2831-004	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1637756)											
VA24C2791-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0020	0.0016	0.0004	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00158	0.00157	0.229%	20%	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00119	0.00118	1.10%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0698	0.0704	0.835%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	0.0000054	0.0000004	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	77.1	80.4	4.30%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.020	0.019	0.002	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0013	0.0013	0.00002	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.100	mg/L	14.6	15.3	4.36%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0701	0.0730	4.10%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00155	0.00150	3.77%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.100	mg/L	1.47	1.53	4.05%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00078	0.00082	0.00004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000579	0.000482	18.2%	20%	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.00	3.83	4.50%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	5.24	5.26	0.499%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.344	0.343	0.379%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	20.1	18.9	6.26%	20%	----
		Tellurium, dissolved	13494-80-9	E421	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
Dissolved Metals (QC Lot: 1637756) - continued											
VA24C2791-001	Anonymous	Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.000030	mg/L	<0.000030	<0.000030	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000223	0.000224	0.702%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Zirconium, dissolved	7440-67-7	E421	0.000020	mg/L	<0.000020	<0.000020	<0.000020	0	Diff <2x LOR	----	
Dissolved Metals (QC Lot: 1646605)											
VA24C2819-003	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1640173)											
VA24C2946-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1644993)											
TY2409957-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	0.0017	0.0015	0.0002	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1638807)											
VA24C2977-002	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	----
		Dichloroethylene, 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	----



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
Volatile Organic Compounds (QC Lot: 1638807) - continued											
VA24C2977-002	Anonymous	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	4.00	µg/L	<4.20	<4.00	0.20	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	0.87	0.75	0.12	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611C	0.30	µg/L	0.34	<0.30	0.04	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1638805)											
VA24C2795-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	100	µg/L	12700	12500	1.5%	30%	----
Glycols (QC Lot: 1634323)											
VA24C2955-003	Anonymous	Diethylene glycol	111-46-6	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Ethylene glycol	107-21-1	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Propylene glycol, 1,2-	57-55-6	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Triethylene glycol	112-27-6	E680E	5.0	mg/L	<5.0	<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
Physical Tests (QCLot: 1634694)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1643895)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1643899)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1634696)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1634697)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1634698)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1634700)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1634701)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1634702)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1641814)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1641815)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1641816)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon (QCLot: 1637370)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1635203)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1637755)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1637755) - continued						
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	MBRR
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1646759)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	---
Dissolved Metals (QCLot: 1637756)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	---
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	---
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	---
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	---
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	---
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	---
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	---
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	---
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	---
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	---
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	---
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	---
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	---
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	---
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	---
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	---
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	---
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	---
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	---
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	---
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	---
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	---
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	---
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	---
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	---
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	---
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	---
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	---
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	---
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	---
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	---
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	---
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	---



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1637756) - continued						
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1646605)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1640173)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1644993)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Volatile Organic Compounds (QCLot: 1638807)						
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
Volatile Organic Compounds (QCLot: 1638807) - continued						
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	----
Hydrocarbons (QCLot: 1638046)						
EPH (C10-C19)	----	E601A	250	µg/L	<250	----
EPH (C19-C32)	----	E601A	250	µg/L	<250	----
Hydrocarbons (QCLot: 1638805)						
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1638047)						
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
Polycyclic Aromatic Hydrocarbons (QCLot: 1638047) - continued						
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	----
Glycols (QCLot: 1634323)						
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	----

Qualifiers

Qualifier	Description
MBRR	Initial MB for this submission had positive results for flagged analyte (data not shown). Low level samples were repeated with new QC (2nd MB results shown). High level results (>5x initial MB level) and non-detect results were reported and are defensible



Laboratory Control Sample (LCS) Report

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

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1634694)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	102	85.0	115	----
Physical Tests (QCLot: 1643895)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	90.9	85.0	115	----
Physical Tests (QCLot: 1643899)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	99.1	85.0	115	----
Anions and Nutrients (QCLot: 1634696)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.9	90.0	110	----
Anions and Nutrients (QCLot: 1634697)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1634698)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	107	85.0	115	----
Anions and Nutrients (QCLot: 1634700)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	99.5	90.0	110	----
Anions and Nutrients (QCLot: 1634701)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 1634702)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1641814)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	98.6	75.0	125	----
Anions and Nutrients (QCLot: 1641815)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	95.9	80.0	120	----
Anions and Nutrients (QCLot: 1641816)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	101	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1637370)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	86.0	80.0	120	----
Total Sulfides (QCLot: 1635203)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	104	80.0	120	----
Total Metals (QCLot: 1637755)									



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1637755) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	102	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	106	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	105	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	103	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	103	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	106	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	99.1	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	102	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	102	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	100	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	100	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	104	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	106	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	105	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	101	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	107	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	98.3	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	105	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	100	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	110	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	96.4	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	108	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	102	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	107	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	100	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	101	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	97.5	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	101	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	108	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1637755) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	99.7	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	102	80.0	120	----
Total Metals (QCLot: 1646759)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	98.4	80.0	120	----
Dissolved Metals (QCLot: 1637756)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	97.0	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	103	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	92.9	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	91.5	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	98.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	95.7	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	98.9	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	98.2	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	96.9	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	97.4	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	96.8	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	101	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	97.7	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	100	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	96.4	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	99.2	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	96.9	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	98.0	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.5	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	100	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	94.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	102	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	98.8	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	95.0	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1637756) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	102	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	100.0	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	95.7	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	98.9	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.5	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	98.4	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.7	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	99.5	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	97.2	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	100	80.0	120	----
Speciated Metals (QCLot: 1640173)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	98.8	80.0	120	----
Aggregate Organics (QCLot: 1644993)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	105	85.0	115	----
Volatile Organic Compounds (QCLot: 1638807)									
Benzene	71-43-2	E611C	0.5	µg/L	100 µg/L	94.6	70.0	130	----
Bromodichloromethane	75-27-4	E611C	0.5	µg/L	100 µg/L	95.8	70.0	130	----
Bromoform	75-25-2	E611C	0.5	µg/L	100 µg/L	103	70.0	130	----
Carbon tetrachloride	56-23-5	E611C	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Chlorobenzene	108-90-7	E611C	0.5	µg/L	100 µg/L	98.1	70.0	130	----
Chloroethane	75-00-3	E611C	0.5	µg/L	100 µg/L	112	60.0	140	----
Chloroform	67-66-3	E611C	0.5	µg/L	100 µg/L	97.0	70.0	130	----
Chloromethane	74-87-3	E611C	5	µg/L	100 µg/L	98.2	60.0	140	----
Dibromochloromethane	124-48-1	E611C	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611C	0.5	µg/L	100 µg/L	99.6	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611C	0.5	µg/L	100 µg/L	98.4	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611C	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichloroethane, 1,1-	75-34-3	E611C	0.5	µg/L	100 µg/L	84.4	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611C	0.5	µg/L	100 µg/L	92.2	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611C	0.5	µg/L	100 µg/L	93.5	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611C	0.5	µg/L	100 µg/L	91.4	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611C	0.5	µg/L	100 µg/L	93.2	70.0	130	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1638807) - continued									
Dichloromethane	75-09-2	E611C	1	µg/L	100 µg/L	96.8	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611C	0.5	µg/L	100 µg/L	96.5	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611C	0.5	µg/L	100 µg/L	90.2	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611C	0.5	µg/L	100 µg/L	92.6	70.0	130	----
Ethylbenzene	100-41-4	E611C	0.5	µg/L	100 µg/L	95.9	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	0.5	µg/L	100 µg/L	98.3	70.0	130	----
Styrene	100-42-5	E611C	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.5	µg/L	100 µg/L	101	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.2	µg/L	100 µg/L	93.9	70.0	130	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Toluene	108-88-3	E611C	0.4	µg/L	100 µg/L	93.9	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611C	0.5	µg/L	100 µg/L	98.3	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611C	0.5	µg/L	100 µg/L	94.2	70.0	130	----
Trichloroethylene	79-01-6	E611C	0.5	µg/L	100 µg/L	95.3	70.0	130	----
Trichlorofluoromethane	75-69-4	E611C	0.5	µg/L	100 µg/L	110	60.0	140	----
Vinyl chloride	75-01-4	E611C	0.4	µg/L	100 µg/L	106	60.0	140	----
Xylene, m+p-	179601-23-1	E611C	0.4	µg/L	200 µg/L	100	70.0	130	----
Xylene, o-	95-47-6	E611C	0.3	µg/L	100 µg/L	97.7	70.0	130	----
Hydrocarbons (QCLot: 1638046)									
EPH (C10-C19)	---	E601A	250	µg/L	6490 µg/L	111	70.0	130	----
EPH (C19-C32)	---	E601A	250	µg/L	3360 µg/L	115	70.0	130	----
Hydrocarbons (QCLot: 1638805)									
VHw (C6-C10)	---	E581.VH+F1	100	µg/L	6310 µg/L	83.2	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1638047)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5 µg/L	106	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5 µg/L	114	60.0	130	----
Acridine	260-94-6	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5 µg/L	116	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5 µg/L	111	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5 µg/L	109	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5 µg/L	121	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5 µg/L	109	60.0	130	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1638047) - continued									
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5 µg/L	122	60.0	130	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5 µg/L	108	60.0	130	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5 µg/L	120	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5 µg/L	97.3	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5 µg/L	105	60.0	130	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5 µg/L	102	50.0	130	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5 µg/L	116	60.0	130	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5 µg/L	107	60.0	130	----
Quinoline	91-22-5	E641A	0.05	µg/L	0.5 µg/L	107	60.0	130	----
Glycols (QCLot: 1634323)									
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	101	70.0	130	----
Propylene glycol, 1,2-	57-55-6	E680E	5	mg/L	25 mg/L	99.5	70.0	130	----
Triethylene glycol	112-27-6	E680E	5	mg/L	25 mg/L	98.1	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					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1634696)										
VA24C2714-002	Anonymous	Fluoride	16984-48-8	E235.F	20.3 mg/L	20 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1634697)										
VA24C2714-002	Anonymous	Chloride	16887-00-6	E235.Cl	1990 mg/L	2000 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1634698)										
VA24C2714-002	Anonymous	Bromide	24959-67-9	E235.Br-L	10.1 mg/L	10 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1634700)										
VA24C2714-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	49.8 mg/L	50 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1634701)										
VA24C2714-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	9.71 mg/L	10 mg/L	97.1	75.0	125	----
Anions and Nutrients (QCLot: 1634702)										
VA24C2714-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1970 mg/L	2000 mg/L	98.7	75.0	125	----
Anions and Nutrients (QCLot: 1641814)										
VA24C2985-002	Anonymous	Nitrogen, total	7727-37-9	E366	0.368 mg/L	0.4 mg/L	92.0	70.0	130	----
Anions and Nutrients (QCLot: 1641815)										
VA24C2985-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0496 mg/L	0.05 mg/L	99.2	70.0	130	----
Anions and Nutrients (QCLot: 1641816)										
VA24C2721-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1637370)										
CG2412609-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	ND mg/L	----	ND	70.0	130	----
Total Sulfides (QCLot: 1635203)										
VA24C2792-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.191 mg/L	0.2 mg/L	95.4	75.0	125	----
Total Metals (QCLot: 1637755)										
VA24C2711-001	Anonymous	Aluminum, total	7429-90-5	E420	0.179 mg/L	0.2 mg/L	89.7	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0195 mg/L	0.02 mg/L	97.4	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0185 mg/L	0.02 mg/L	92.5	70.0	130	----
		Barium, total	7440-39-3	E420	0.0183 mg/L	0.02 mg/L	91.6	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0396 mg/L	0.04 mg/L	99.1	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00936 mg/L	0.01 mg/L	93.6	70.0	130	----
		Boron, total	7440-42-8	E420	0.094 mg/L	0.1 mg/L	94.0	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00373 mg/L	0.004 mg/L	93.4	70.0	130	----
		Calcium, total	7440-70-2	E420	3.81 mg/L	4 mg/L	95.3	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00981 mg/L	0.01 mg/L	98.1	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0367 mg/L	0.04 mg/L	91.7	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
Total Metals (QCLot: 1637755) - continued										
VA24C2711-001	Anonymous	Cobalt, total	7440-48-4	E420	0.0183 mg/L	0.02 mg/L	91.3	70.0	130	----
		Copper, total	7440-50-8	E420	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Iron, total	7439-89-6	E420	1.79 mg/L	2 mg/L	89.5	70.0	130	----
		Lead, total	7439-92-1	E420	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0980 mg/L	0.1 mg/L	98.0	70.0	130	----
		Magnesium, total	7439-95-4	E420	0.897 mg/L	1 mg/L	89.7	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0179 mg/L	0.02 mg/L	89.5	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0198 mg/L	0.02 mg/L	98.9	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0365 mg/L	0.04 mg/L	91.2	70.0	130	----
		Phosphorus, total	7723-14-0	E420	8.59 mg/L	10 mg/L	85.9	70.0	130	----
		Potassium, total	7440-09-7	E420	3.71 mg/L	4 mg/L	92.9	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0173 mg/L	0.02 mg/L	86.5	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0362 mg/L	0.04 mg/L	90.6	70.0	130	----
		Silicon, total	7440-21-3	E420	9.29 mg/L	10 mg/L	92.9	70.0	130	----
		Silver, total	7440-22-4	E420	0.00392 mg/L	0.004 mg/L	97.9	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	0.0206 mg/L	0.02 mg/L	103	70.0	130	----
		Sulfur, total	7704-34-9	E420	18.4 mg/L	20 mg/L	92.3	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0398 mg/L	0.04 mg/L	99.6	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00381 mg/L	0.004 mg/L	95.3	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0179 mg/L	0.02 mg/L	89.7	70.0	130	----
		Tin, total	7440-31-5	E420	0.0182 mg/L	0.02 mg/L	90.9	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0357 mg/L	0.04 mg/L	89.2	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0184 mg/L	0.02 mg/L	92.2	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00391 mg/L	0.004 mg/L	97.9	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0928 mg/L	0.1 mg/L	92.8	70.0	130	----
		Zinc, total	7440-66-6	E420	0.362 mg/L	0.4 mg/L	90.5	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0401 mg/L	0.04 mg/L	100	70.0	130	----
Total Metals (QCLot: 1646759)										
VA24C2831-005	Anonymous	Mercury, total	7439-97-6	E508	0.0000956 mg/L	0 mg/L	95.6	70.0	130	----
Dissolved Metals (QCLot: 1637756)										
VA24C2791-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.196 mg/L	0.2 mg/L	98.3	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0378 mg/L	0.04 mg/L	94.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00864 mg/L	0.01 mg/L	86.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.090 mg/L	0.1 mg/L	90.5	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00393 mg/L	0.004 mg/L	98.2	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00964 mg/L	0.01 mg/L	96.4	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0387 mg/L	0.04 mg/L	96.8	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0186 mg/L	0.02 mg/L	92.9	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
Dissolved Metals (QCLot: 1637756) - continued										
VA24C2791-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.0186 mg/L	0.02 mg/L	93.0	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.90 mg/L	2 mg/L	95.1	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0183 mg/L	0.02 mg/L	91.4	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0951 mg/L	0.1 mg/L	95.1	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	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0371 mg/L	0.04 mg/L	92.7	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	10.1 mg/L	10 mg/L	101	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	3.83 mg/L	4 mg/L	95.7	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0194 mg/L	0.02 mg/L	97.3	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0405 mg/L	0.04 mg/L	101	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	8.84 mg/L	10 mg/L	88.4	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00381 mg/L	0.004 mg/L	95.3	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	20.0 mg/L	20 mg/L	100	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0391 mg/L	0.04 mg/L	97.8	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00359 mg/L	0.004 mg/L	89.8	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0188 mg/L	0.02 mg/L	93.9	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0383 mg/L	0.04 mg/L	95.7	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0179 mg/L	0.02 mg/L	89.4	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00361 mg/L	0.004 mg/L	90.2	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0985 mg/L	0.1 mg/L	98.5	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.376 mg/L	0.4 mg/L	94.1	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0412 mg/L	0.04 mg/L	103	70.0	130	----
Dissolved Metals (QCLot: 1646605)										
VA24C2820-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000963 mg/L	0 mg/L	96.3	70.0	130	----
Speciated Metals (QCLot: 1640173)										
VA24C2946-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0385 mg/L	0.04 mg/L	96.3	70.0	130	----
Aggregate Organics (QCLot: 1644993)										
TY2409957-002	Anonymous	Phenols, total (4AAP)	----	E562	0.0217 mg/L	0.02 mg/L	108	75.0	125	----
Volatile Organic Compounds (QCLot: 1638807)										
VA24C2986-001	WLNQ EOP	Benzene	71-43-2	E611C	94.7 µg/L	100 µg/L	94.7	60.0	140	----
		Bromodichloromethane	75-27-4	E611C	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Bromoform	75-25-2	E611C	110 µg/L	100 µg/L	110	60.0	140	----
		Carbon tetrachloride	56-23-5	E611C	96.5 µg/L	100 µg/L	96.5	60.0	140	----
		Chlorobenzene	108-90-7	E611C	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Chloroethane	75-00-3	E611C	104 µg/L	100 µg/L	104	50.0	150	----
		Chloroform	67-66-3	E611C	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Chloromethane	74-87-3	E611C	85.2 µg/L	100 µg/L	85.2	50.0	150	----



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
Volatile Organic Compounds (QCLot: 1638807) - continued										
VA24C2986-001	WLNG EOP	Dibromochloromethane	124-48-1	E611C	103 µg/L	100 µg/L	103	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611C	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611C	97.1 µg/L	100 µg/L	97.1	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611C	96.0 µg/L	100 µg/L	96.0	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611C	89.0 µg/L	100 µg/L	89.0	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611C	92.4 µg/L	100 µg/L	92.4	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611C	93.0 µg/L	100 µg/L	93.0	60.0	140	----
		Dichloromethane	75-09-2	E611C	98.2 µg/L	100 µg/L	98.2	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611C	97.9 µg/L	100 µg/L	97.9	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611C	94.5 µg/L	100 µg/L	94.5	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611C	96.9 µg/L	100 µg/L	96.9	60.0	140	----
		Ethylbenzene	100-41-4	E611C	94.2 µg/L	100 µg/L	94.2	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	98.8 µg/L	100 µg/L	98.8	60.0	140	----
		Styrene	100-42-5	E611C	102 µg/L	100 µg/L	102	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	97.2 µg/L	100 µg/L	97.2	60.0	140	----
		Tetrachloroethylene	127-18-4	E611C	95.4 µg/L	100 µg/L	95.4	60.0	140	----
		Toluene	108-88-3	E611C	93.6 µg/L	100 µg/L	93.6	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	96.6 µg/L	100 µg/L	96.6	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	95.3 µg/L	100 µg/L	95.3	60.0	140	----
		Trichloroethylene	79-01-6	E611C	94.9 µg/L	100 µg/L	94.9	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611C	104 µg/L	100 µg/L	104	50.0	150	----
		Vinyl chloride	75-01-4	E611C	92.9 µg/L	100 µg/L	92.9	50.0	150	----
		Xylene, m+p-	179601-23-1	E611C	196 µg/L	200 µg/L	97.8	60.0	140	----
		Xylene, o-	95-47-6	E611C	95.0 µg/L	100 µg/L	95.0	60.0	140	----
Hydrocarbons (QCLot: 1638805)										
YL2401375-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	3280 µg/L	6310 µg/L	52.0	60.0	140	K

Qualifiers

Qualifier	Description
K	Matrix Spike recovery outside ALS DQO due to sample matrix effects.



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page of

Canada Toll Free: 1 800 668 9878

Report To		Reports / Recipients			Turnaround Time (TAT) Requested													Analysis Request																																																																																																																																																																																																																																																																				
Company: Triton Environmental		Select Report Format: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			<input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum <input type="checkbox"/> Same day [E2] if received by 10am M-S - 200% rush surcharge.													AFFIX ALS BARCODE LABEL HERE (ALS use only)																																																																																																																																																																																																																																																																				
Contact: [Redacted]		Merge QC/QCI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.																																																																																																																																																																																																																																																																																	
Phone: [Redacted]		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			Date and Time Required for all E&P TATs: 10 Sept 2024																																																																																																																																																																																																																																																																																	
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City/Province: [Redacted]		Email 1 or Fax			<table border="1"> <thead> <tr> <th rowspan="2">NUMBER OF CONTAINERS</th> <th colspan="13">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below</th> <th rowspan="2">SAMPLES ON HOLD</th> <th rowspan="2">EXTENDED STORAGE REQUIRED</th> <th rowspan="2">SUSPECTED HAZARD (see notes)</th> </tr> <tr> <th>F</th><th></th><th></th><th></th><th>P</th><th>P</th><th>P</th><th>P</th><th>F/P</th><th></th><th></th><th></th><th></th> </tr> </thead> <tbody> <tr> <td>Total metals + mercury</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Dissolved metals + mercury</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total hexavalent chromium</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total trivalent chromium</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO2, NO3, SO4)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Total sulfide (low) (as H2S), Unionized Sulfide (low)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Nutrients (ammonia, ammonium, total nitrogen, total phosphorus, phenols)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>VOC/VPH</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>EPH, PAH, LEPH/HEPH</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>DOC</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Glycols</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>General parameters (alkalinity)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>													NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below													SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)	F				P	P	P	P	F/P					Total metals + mercury																			Dissolved metals + mercury																			Total hexavalent chromium																			Total trivalent chromium																			TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO2, NO3, SO4)																			Total sulfide (low) (as H2S), Unionized Sulfide (low)																			Nutrients (ammonia, ammonium, total nitrogen, total phosphorus, phenols)																			VOC/VPH																			EPH, PAH, LEPH/HEPH																			DOC																			Glycols																			General parameters (alkalinity)																					
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ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)		Time (hh:mm)		Sample Type																																																																																																																																																																																																																																																																													
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Drinking Water (DW) Samples ¹ (client use)				Notes / Specify Limits for result evaluation by selecting from dr (Excel COC only)																																																																																																																																																																																																																																																																																		
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO				ESDAT EDD to ESdat_CA+tritonenv@ESdatLabSync.net																																																																																																																																																																																																																																																																																		
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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.																																																																																																																																																																																																																																																																																						

Environmental Division
Vancouver
Work Order Reference
VA24C2986



Telephone : + 1 604 263 4168

SAMPLE RECEIPT DETAILS (ALS use only)

ONE ICE ICE PACKS FROZEN COOLING INITIATED

Identified on Sample Receipt Notification: YES NO

Contact: YES N/A Sample Custody Seals Intact: YES N/A

TEMPERATURES °C: [Blank] FINAL COOLER TEMPERATURES °C: 14

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



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix C	C-4

Woodfibre Site WTP Discharge Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-4-Chycoski-26341

Project Component:	Tunnel	Site Name:	WLNG Treatment Discharge
Inspection Date:	09/04/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	
Temperature(c): Low 19 High 30		Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Dry

Observations

Time: 10:02:00 **Flow Volume (visual):** N/A

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	Yes	
DOC	Yes	EPH, PAH, LEPH/HEPH	Yes	
		Trout LC50	Yes	

Logger Maintenance

Logger Maintenance Performed?	No	Photo of COC with Lab Signature?	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

Chain of Custody (COC) / Analytical Request Form document - 20 -

Canada Toll Free: 1 800 668 5878 Page 1 of 2

Report To	Company	Client	Project Information	ALS Account # 7 (Quartz #)	Sample Information
Client: 0048 Environmental	Client Project Name: 03-469-02-WLNG-01-1040(01/24)	Client: 0348-175-0892	ALS Account # 7 (Quartz #): 1423-1767150-612	Sample ID: 143	
Company: 0348-175-0892	Client: 0348-175-0892	Client: 0348-175-0892	Client: 0348-175-0892	Date: 04 Sep 24	
Client: 0348-175-0892	Client: 0348-175-0892	Client: 0348-175-0892	Client: 0348-175-0892	Time: 10:03	

Submitting Water (SW) Samples? (client use)
Initials / Signatures: *John Chycoski*, Date: *4 Sept 24*

LABORATORY COPY YELLOW CLIENT COPY

Photo: 4
Location: WLNG EOP
Description: Lab COC



2024-9-4-Chycoski-26341

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes


Report Reviewer:

Professional(s) of Record:


Name:

Designation:

Designation Number:

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
	Report #	24
	Appendix D	D-1

Appendix D: Woodfibre Site Receiving Environment Documentation

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
	Report #	24
	Appendix D	D-2

Woodfibre Site Receiving Environment Sample Analysis



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix D	D-3

Woodfibre Site Receiving Environment Lab Documentation



CERTIFICATE OF ANALYSIS

Work Order : **VA24C2985**
Client : **Triton Environmental Consultants Ltd.**
Contact :
Address :

Telephone :
Project : 11964
PO : 11964 - TASK 20 - Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 6
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 04-Sep-2024 17:40
Date Analysis Commenced : 05-Sep-2024
Issue Date : 13-Sep-2024 09:17

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
[Redacted]		Inorganics, Calgary, Alberta
		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Administration, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Inorganics, Waterloo, Ontario
		Metals, Waterloo, Ontario
		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

Sub-Matrix: Water					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:40	04-Sep-2024 09:24	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2985-001	VA24C2985-002	-----	-----	-----	
					Result	Result	----	----	----	
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm	43.000	156.00	----	----	----	
pH, field	----	EF001/VA	0.10	pH units	7.42	7.45	----	----	----	
Temperature, field	----	EF001/VA	0.10	°C	16.0	15.9	----	----	----	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	9.63	61.3	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	9.54	56.4	----	----	----	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	30	77	----	----	----	
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	<3.0	<3.0	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	9.9	65.1	----	----	----	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	<0.0050	<0.0050	----	----	----	
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L	0.86	2.46	----	----	----	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.023	0.105	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3-L/V A	0.0050	mg/L	0.0368	0.139	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2-L/V A	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.098	0.219	----	----	----	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0060	0.0090	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	2.94	6.17	----	----	----	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/CG	0.50	mg/L	2.04	1.01	----	----	----	
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/VA	0.0015	mg/L	<0.0015	<0.0015	----	----	----	
Sulfide, un-ionized (as H2S), from total	7783-06-4	EC395/VA	0.0015	mg/L	<0.0015	<0.0015	----	----	----	
Sulfide, total (as H2S)	7783-06-4	E395/VA	0.0016	mg/L	<0.0016	<0.0016	----	----	----	
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0659	0.0424	----	----	----	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	0.00043	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	04-Sep-2024 10:40	04-Sep-2024 09:24	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2985-001	VA24C2985-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00018	0.00031	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00546	0.0156	----	----	----	
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	0.018	----	----	----	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	0.0000065	0.0000127	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	3.20	20.6	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000014	0.000024	----	----	----	
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	0.00065	0.00063	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.083	0.196	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	<0.000050	0.000081	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	0.0030	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	0.377	1.20	----	----	----	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00237	0.0158	----	----	----	
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	0.000520	0.0102	----	----	----	
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	0.359	2.52	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00089	0.00374	----	----	----	
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	5.32	5.88	----	----	----	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	0.000021	----	----	----	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	1.98	4.34	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0162	0.0635	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	0.98	1.96	----	----	----	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
Client sampling date / time					04-Sep-2024 10:40	04-Sep-2024 09:24	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2985-001	VA24C2985-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Tin, total	7440-31-5	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L	0.00077	0.00094	----	----	----	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	<0.00010	0.00037	----	----	----	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.000073	0.000364	----	----	----	
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	0.0040	----	----	----	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L	0.0409	0.0203	----	----	----	
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	<0.00010	0.00038	----	----	----	
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00014	0.00023	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00494	0.0147	----	----	----	
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	0.017	----	----	----	
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000050	0.0000110	----	----	----	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	3.24	22.5	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	<0.000010	0.000020	----	----	----	
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	0.00059	0.00044	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.047	0.018	----	----	----	
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	0.0026	----	----	----	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.373	1.24	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00141	0.00992	----	----	----	
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	0.000533	0.00907	----	----	----	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
Client sampling date / time					04-Sep-2024 10:40	04-Sep-2024 09:24	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2985-001	VA24C2985-002	-----	-----	-----	
					Result	Result	---	---	---	
Dissolved Metals										
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	<0.050	---	---	---	
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	0.318	1.96	---	---	---	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00086	0.00343	---	---	---	
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	4.70	5.38	---	---	---	
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	1.83	4.20	---	---	---	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0167	0.0646	---	---	---	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	0.59	1.80	---	---	---	
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	0.00030	<0.00030	---	---	---	
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	<0.00010	0.00032	---	---	---	
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000064	0.000319	---	---	---	
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	0.0010	0.0020	---	---	---	
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	<0.00020	---	---	---	
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	Field	---	---	---	
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	---	---	---	
Speciated Metals										
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/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

<p>Work Order : VA24C2985</p> <p>Client : Triton Environmental Consultants Ltd.</p> <p>Contact : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : [REDACTED]</p> <p>Project : 11964</p> <p>PO : 11964 - TASK 20 - Phase 3C-4C</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : Water Analysis</p> <p>Quote number : VA23-TRIT100-012_V2</p> <p>No. of samples received : 2</p> <p>No. of samples analysed : 2</p>	<p>Page : 1 of 14</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : [REDACTED]</p> <p>Date Samples Received : 04-Sep-2024 17:40</p> <p>Issue Date : 13-Sep-2024 09:17</p>
---	---

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

Key

- Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO: Data Quality Objective.
- LOR: Limit of Reporting (detection limit).
- RPD: Relative Percent Difference.

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

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

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

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

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

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

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

Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG DS 1	E298	04-Sep-2024	10-Sep-2024	28 days	6 days	✔	12-Sep-2024	28 days	8 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG US 1	E298	04-Sep-2024	10-Sep-2024	28 days	6 days	✔	12-Sep-2024	28 days	8 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG DS 1	E235.Br-L	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG US 1	E235.Br-L	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG DS 1	E235.Cl	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG US 1	E235.Cl	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG DS 1	E235.F	04-Sep-2024	05-Sep-2024	28 days	1 days	✔	05-Sep-2024	28 days	1 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Fluoride in Water by IC											
HDPE WLNG US 1	E235.F	04-Sep-2024	05-Sep-2024	28 days	1 days	✓	05-Sep-2024	28 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO3-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✓	05-Sep-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO3-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✓	05-Sep-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO2-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✓	05-Sep-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO2-L	04-Sep-2024	05-Sep-2024	3 days	1 days	✓	05-Sep-2024	3 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG DS 1	E235.SO4	04-Sep-2024	05-Sep-2024	28 days	1 days	✓	05-Sep-2024	28 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG US 1	E235.SO4	04-Sep-2024	05-Sep-2024	28 days	1 days	✓	05-Sep-2024	28 days	1 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG DS 1	E366	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	10-Sep-2024	28 days	6 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG US 1	E366	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	10-Sep-2024	28 days	6 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WLNG DS 1	E372-U	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	12-Sep-2024	28 days	8 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WLNG US 1	E372-U	04-Sep-2024	10-Sep-2024	28 days	6 days	✓	12-Sep-2024	28 days	8 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) WLNG DS 1	E509	04-Sep-2024	12-Sep-2024	28 days	8 days	✓	12-Sep-2024	28 days	8 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) WLNG US 1	E509	04-Sep-2024	12-Sep-2024	28 days	8 days	✓	12-Sep-2024	28 days	8 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) WLNG US 1	E421	04-Sep-2024	12-Sep-2024	180 days	8 days	✓	12-Sep-2024	180 days	8 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) WLNG DS 1	E421	04-Sep-2024	12-Sep-2024	180 days	8 days	✓	12-Sep-2024	180 days	9 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial - total (lab preserved) WLNG DS 1	EF001	04-Sep-2024	----	----	----		09-Sep-2024	----	5 days	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial - total (lab preserved) WLNG US 1	EF001	04-Sep-2024	----	----	----		09-Sep-2024	----	5 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) WLNG DS 1	E358-L	04-Sep-2024	06-Sep-2024	28 days	2 days	✓	06-Sep-2024	28 days	2 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) WLNG US 1	E358-L	04-Sep-2024	06-Sep-2024	28 days	2 days	✓	06-Sep-2024	28 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WLNG DS 1	E290	04-Sep-2024	05-Sep-2024	14 days	1 days	✓	07-Sep-2024	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WLNG US 1	E290	04-Sep-2024	05-Sep-2024	14 days	1 days	✓	07-Sep-2024	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WLNG DS 1	E162	04-Sep-2024	----	----	----		11-Sep-2024	7 days	7 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WLNG US 1	E162	04-Sep-2024	----	----	----		11-Sep-2024	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WLNG DS 1	E160	04-Sep-2024	----	----	----		10-Sep-2024	7 days	7 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WLNG US 1	E160	04-Sep-2024	----	----	----		10-Sep-2024	7 days	7 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) WLNG DS 1	E532	04-Sep-2024	----	----	----		09-Sep-2024	28 days	5 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) WLNG US 1	E532	04-Sep-2024	----	----	----		09-Sep-2024	28 days	5 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) WLNG DS 1	E508	04-Sep-2024	12-Sep-2024	28 days	8 days	✔	12-Sep-2024	28 days	8 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) WLNG US 1	E508	04-Sep-2024	12-Sep-2024	28 days	8 days	✔	12-Sep-2024	28 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG DS 1	E420	04-Sep-2024	11-Sep-2024	180 days	7 days	✔	11-Sep-2024	180 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG US 1	E420	04-Sep-2024	11-Sep-2024	180 days	7 days	✔	11-Sep-2024	180 days	8 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG DS 1	E395	04-Sep-2024	----	----	----		05-Sep-2024	7 days	1 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG US 1	E395	04-Sep-2024	----	----	----		05-Sep-2024	7 days	1 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	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1647422	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637751	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1647422	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637751	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔



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
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1634694	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
TDS by Gravimetry	E162	1643899	1	18	5.5	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1647422	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637751	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1643895	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1641816	1	15	6.6	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1634698	1	14	7.1	5.0	✔
Chloride in Water by IC	E235.Cl	1634697	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1646605	1	12	8.3	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1637756	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1637370	1	20	5.0	5.0	✔
Fluoride in Water by IC	E235.F	1634696	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1634700	1	17	5.8	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1634701	1	16	6.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1634702	1	16	6.2	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1640173	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1647422	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1637751	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1641814	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1641815	1	12	8.3	5.0	✔



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
<i>Analytical Methods</i>							
Matrix Spikes (MS) - Continued							
Total Sulfide by Colourimetry (Automated Flow)	E395	1635203	1	7	14.2	5.0	✔



Methodology References and Summaries

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

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



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



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

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



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

QUALITY CONTROL REPORT

Work Order : **VA24C2985**
Client : Triton Environmental Consultants Ltd.
Contact :
Address :
Telephone :
Project : 11964
PO : 11964 - TASK 20 - Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 17
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :
Telephone :
Date Samples Received : 04-Sep-2024 17:40
Date Analysis Commenced : 05-Sep-2024
Issue Date : 13-Sep-2024 09:17

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
		Calgary Inorganics, Calgary, Alberta Vancouver Metals, Burnaby, British Columbia Vancouver Metals, Burnaby, British Columbia Vancouver Inorganics, Burnaby, British Columbia Vancouver Metals, Burnaby, British Columbia Vancouver Administration, Burnaby, British Columbia Vancouver Inorganics, Burnaby, British Columbia Vancouver Metals, Burnaby, British Columbia Vancouver Inorganics, Burnaby, British Columbia Waterloo Inorganics, Waterloo, Ontario Waterloo Metals, Waterloo, Ontario Vancouver Metals, Burnaby, British Columbia

Page : 2 of 17
Work Order : VA24C2985
Client : Triton Environmental Consultants Ltd.
Project : 11964



General Comments

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

Key :

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

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

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

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

Workorder Comments

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



Laboratory Duplicate (DUP) Report

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

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1634694)											
VA24C2714-003	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	110	110	0.0910%	20%	----
Physical Tests (QC Lot: 1643895)											
FJ2402673-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1643899)											
FJ2402673-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	2080	2080	0.312%	20%	----
Anions and Nutrients (QC Lot: 1634696)											
VA24C2714-001	Anonymous	Fluoride	16984-48-8	E235.F	0.400	mg/L	<0.400	<0.400	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634697)											
VA24C2714-001	Anonymous	Chloride	16887-00-6	E235.Cl	10.0	mg/L	<10.0	<10.0	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634698)											
VA24C2714-001	Anonymous	Bromide	24959-67-9	E235.Br-L	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634700)											
VA24C2714-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634701)											
VA24C2714-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0200	mg/L	<0.0200	<0.0200	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1634702)											
VA24C2714-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	6.00	mg/L	2090	2080	0.547%	20%	----
Anions and Nutrients (QC Lot: 1641814)											
VA24C2985-001	WLNG US 1	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.098	0.094	0.005	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641815)											
VA24C2985-001	WLNG US 1	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0060	0.0069	0.0009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1641816)											
VA24C2721-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0366	0.0369	0.0003	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1637370)											
CG2412609-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	10.8	10.5	3.02%	20%	----
Total Sulfides (QC Lot: 1635203)											
TY2409694-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.0046	0.0044	0.0001	Diff <2x LOR	----
Total Metals (QC Lot: 1637751)											
VA24C2791-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0072	0.0063	0.0010	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00158	0.00156	1.48%	20%	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1637751) - continued											
VA24C2791-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00137	0.00134	1.77%	20%	---
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0692	0.0714	3.00%	20%	---
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	---
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<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	76.0	76.2	0.287%	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	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Cobalt, total	7440-48-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Copper, total	7440-50-8	E420	0.000050	mg/L	0.00130	0.00128	0.00003	Diff <2x LOR	---
		Iron, total	7439-89-6	E420	0.010	mg/L	0.060	0.059	0.001	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	0.0014	0.0013	0.00004	Diff <2x LOR	---
		Magnesium, total	7439-95-4	E420	0.100	mg/L	13.1	12.8	2.08%	20%	---
		Manganese, total	7439-96-5	E420	0.000010	mg/L	0.0736	0.0736	0.0999%	20%	---
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00153	0.00150	1.99%	20%	---
		Nickel, total	7440-02-0	E420	0.000050	mg/L	<0.000050	<0.000050	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	0.100	mg/L	1.60	1.60	0.242%	20%	---
		Rubidium, total	7440-17-7	E420	0.000020	mg/L	0.00074	0.00079	0.00005	Diff <2x LOR	---
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000513	0.000593	14.5%	20%	---
		Silicon, total	7440-21-3	E420	0.10	mg/L	4.29	4.23	1.44%	20%	---
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Sodium, total	7440-23-5	E420	0.050	mg/L	5.13	5.30	3.39%	20%	---
		Strontium, total	7440-24-6	E420	0.000020	mg/L	0.351	0.340	3.27%	20%	---
		Sulfur, total	7704-34-9	E420	0.50	mg/L	22.0	21.5	2.11%	20%	---
		Tellurium, total	13494-80-9	E420	0.000020	mg/L	<0.000020	<0.000020	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	0.000244	0.000231	5.55%	20%	---



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1637751) - continued											
VA24C2791-001	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	----
Total Metals (QC Lot: 1647422)											
KS2403612-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1637756)											
VA24C2791-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0020	0.0016	0.0004	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00158	0.00157	0.229%	20%	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00119	0.00118	1.10%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0698	0.0704	0.835%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	0.0000054	0.0000004	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	77.1	80.4	4.30%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.020	0.019	0.002	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0013	0.0013	0.00002	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.100	mg/L	14.6	15.3	4.36%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0701	0.0730	4.10%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00155	0.00150	3.77%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.100	mg/L	1.47	1.53	4.05%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00078	0.00082	0.00004	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000579	0.000482	18.2%	20%	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.00	3.83	4.50%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	5.24	5.26	0.499%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.344	0.343	0.379%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	20.1	18.9	6.26%	20%	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1637756) - continued											
VA24C2791-001	Anonymous	Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	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	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000223	0.000224	0.702%	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	<0.0010	<0.0010	0	Diff <2x LOR	----
Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----		
Dissolved Metals (QC Lot: 1646605)											
VA24C2819-003	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1640173)											
VA24C2946-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----



Method Blank (MB) Report

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

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1634694)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1643895)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1643899)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1634696)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1634697)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1634698)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1634700)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1634701)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1634702)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1641814)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1641815)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1641816)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon (QCLot: 1637370)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1635203)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1637751)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1637751) - continued						
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1647422)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1637756)						
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**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Dissolved Metals (QCLot: 1637756) - continued						
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1646605)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1640173)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----



Laboratory Control Sample (LCS) Report

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

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1634694)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	102	85.0	115	----
Physical Tests (QCLot: 1643895)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	90.9	85.0	115	----
Physical Tests (QCLot: 1643899)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	99.1	85.0	115	----
Anions and Nutrients (QCLot: 1634696)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.9	90.0	110	----
Anions and Nutrients (QCLot: 1634697)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1634698)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	107	85.0	115	----
Anions and Nutrients (QCLot: 1634700)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	99.5	90.0	110	----
Anions and Nutrients (QCLot: 1634701)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 1634702)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1641814)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	98.6	75.0	125	----
Anions and Nutrients (QCLot: 1641815)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	95.9	80.0	120	----
Anions and Nutrients (QCLot: 1641816)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	101	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1637370)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	86.0	80.0	120	----
Total Sulfides (QCLot: 1635203)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	104	80.0	120	----
Total Metals (QCLot: 1637751)									



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1637751) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	106	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	105	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	111	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	98.4	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	103	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	95.3	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	105	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	97.6	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	106	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	105	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	105	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	103	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	100	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	101	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	103	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	105	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	103	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	105	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	113	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	114	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	107	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	106	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	108	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	93.1	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	109	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	99.9	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	96.6	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	100	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	104	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	102	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	99.0	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	99.2	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	102	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1637751) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	105	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	103	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	106	80.0	120	----
Total Metals (QCLot: 1647422)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	93.6	80.0	120	----
Dissolved Metals (QCLot: 1637756)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	97.0	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	103	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	104	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	92.9	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	101	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	91.5	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	98.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	95.7	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	98.9	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	98.2	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	96.9	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	97.4	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	96.8	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	101	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	97.7	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	100	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	96.4	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	99.2	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	96.9	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	98.0	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.5	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	100	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	94.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	102	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	98.8	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	95.0	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1637756) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	102	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	100.0	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	95.7	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	98.9	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.5	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	98.4	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.7	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	99.5	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	97.2	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	100	80.0	120	----
Speciated Metals (QCLot: 1640173)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	98.8	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					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1634696)										
VA24C2714-002	Anonymous	Fluoride	16984-48-8	E235.F	20.3 mg/L	20 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1634697)										
VA24C2714-002	Anonymous	Chloride	16887-00-6	E235.Cl	1990 mg/L	2000 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1634698)										
VA24C2714-002	Anonymous	Bromide	24959-67-9	E235.Br-L	10.1 mg/L	10 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1634700)										
VA24C2714-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	49.8 mg/L	50 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1634701)										
VA24C2714-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	9.71 mg/L	10 mg/L	97.1	75.0	125	----
Anions and Nutrients (QCLot: 1634702)										
VA24C2714-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1970 mg/L	2000 mg/L	98.7	75.0	125	----
Anions and Nutrients (QCLot: 1641814)										
VA24C2985-002	W LNG DS 1	Nitrogen, total	7727-37-9	E366	0.368 mg/L	0.4 mg/L	92.0	70.0	130	----
Anions and Nutrients (QCLot: 1641815)										
VA24C2985-002	W LNG DS 1	Phosphorus, total	7723-14-0	E372-U	0.0496 mg/L	0.05 mg/L	99.2	70.0	130	----
Anions and Nutrients (QCLot: 1641816)										
VA24C2721-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1637370)										
CG2412609-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	ND mg/L	----	ND	70.0	130	----
Total Sulfides (QCLot: 1635203)										
VA24C2792-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.191 mg/L	0.2 mg/L	95.4	75.0	125	----
Total Metals (QCLot: 1637751)										
VA24C2791-002	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	----	ND	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0192 mg/L	0.02 mg/L	95.8	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0212 mg/L	0.02 mg/L	106	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0380 mg/L	0.04 mg/L	95.1	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00923 mg/L	0.01 mg/L	92.3	70.0	130	----
		Boron, total	7440-42-8	E420	0.097 mg/L	0.1 mg/L	96.7	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00393 mg/L	0.004 mg/L	98.2	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00989 mg/L	0.01 mg/L	98.9	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0394 mg/L	0.04 mg/L	98.4	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
Total Metals (QCLot: 1637751) - continued										
VA24C2791-002	Anonymous	Cobalt, total	7440-48-4	E420	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Copper, total	7440-50-8	E420	0.0187 mg/L	0.02 mg/L	93.5	70.0	130	----
		Iron, total	7439-89-6	E420	1.77 mg/L	2 mg/L	88.4	70.0	130	----
		Lead, total	7439-92-1	E420	0.0182 mg/L	0.02 mg/L	90.8	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0931 mg/L	0.1 mg/L	93.1	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	0.0196 mg/L	0.02 mg/L	97.9	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0378 mg/L	0.04 mg/L	94.4	70.0	130	----
		Phosphorus, total	7723-14-0	E420	10.4 mg/L	10 mg/L	104	70.0	130	----
		Potassium, total	7440-09-7	E420	4.02 mg/L	4 mg/L	100	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0405 mg/L	0.04 mg/L	101	70.0	130	----
		Silicon, total	7440-21-3	E420	9.09 mg/L	10 mg/L	90.9	70.0	130	----
		Silver, total	7440-22-4	E420	0.00381 mg/L	0.004 mg/L	95.2	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	19.0 mg/L	20 mg/L	94.8	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0390 mg/L	0.04 mg/L	97.4	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00370 mg/L	0.004 mg/L	92.5	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0162 mg/L	0.02 mg/L	80.8	70.0	130	----
		Tin, total	7440-31-5	E420	0.0193 mg/L	0.02 mg/L	96.5	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0390 mg/L	0.04 mg/L	97.6	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0184 mg/L	0.02 mg/L	92.0	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00375 mg/L	0.004 mg/L	93.8	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0986 mg/L	0.1 mg/L	98.6	70.0	130	----
		Zinc, total	7440-66-6	E420	0.392 mg/L	0.4 mg/L	97.9	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0397 mg/L	0.04 mg/L	99.2	70.0	130	----
Total Metals (QCLot: 1647422)										
KS2403629-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000918 mg/L	0 mg/L	91.8	70.0	130	----
Dissolved Metals (QCLot: 1637756)										
VA24C2791-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.196 mg/L	0.2 mg/L	98.3	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0378 mg/L	0.04 mg/L	94.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00864 mg/L	0.01 mg/L	86.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.090 mg/L	0.1 mg/L	90.5	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00393 mg/L	0.004 mg/L	98.2	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00964 mg/L	0.01 mg/L	96.4	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0387 mg/L	0.04 mg/L	96.8	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0186 mg/L	0.02 mg/L	92.9	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
Dissolved Metals (QCLot: 1637756) - continued										
VA24C2791-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.0186 mg/L	0.02 mg/L	93.0	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.90 mg/L	2 mg/L	95.1	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0183 mg/L	0.02 mg/L	91.4	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0951 mg/L	0.1 mg/L	95.1	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	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0371 mg/L	0.04 mg/L	92.7	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	10.1 mg/L	10 mg/L	101	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	3.83 mg/L	4 mg/L	95.7	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0194 mg/L	0.02 mg/L	97.3	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0405 mg/L	0.04 mg/L	101	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	8.84 mg/L	10 mg/L	88.4	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00381 mg/L	0.004 mg/L	95.3	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	20.0 mg/L	20 mg/L	100	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0391 mg/L	0.04 mg/L	97.8	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00359 mg/L	0.004 mg/L	89.8	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0188 mg/L	0.02 mg/L	93.9	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0383 mg/L	0.04 mg/L	95.7	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0179 mg/L	0.02 mg/L	89.4	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00361 mg/L	0.004 mg/L	90.2	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0985 mg/L	0.1 mg/L	98.5	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.376 mg/L	0.4 mg/L	94.1	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0412 mg/L	0.04 mg/L	103	70.0	130	----
Dissolved Metals (QCLot: 1646605)										
VA24C2820-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000963 mg/L	0 mg/L	96.3	70.0	130	----
Speciated Metals (QCLot: 1640173)										
VA24C2946-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0385 mg/L	0.04 mg/L	96.3	70.0	130	----

Report To Contact and company name below will appear on the final report		Report Format / Distribution			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)																
Company: Triton Environmental		Select Report Format: <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply																
Contact:		Quality Control (QC) Report with Report <input type="checkbox"/> YES <input type="checkbox"/> NO			PRIORITY (Business Days)		EMERGENCY		1 Business day [E1 - 100%]												
Phone:		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			4 day [P4-20%] <input type="checkbox"/>				Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)] <input type="checkbox"/>												
Street:		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			3 day [P3-25%] <input type="checkbox"/>				2 day [P2-50%] <input type="checkbox"/>												
City/Province:		Email 1 or F:			Date and Time Required for all E&P TATs: 12 Sept 2024																
Postal Code:		Email 2			or tests that can not be performed according to the service level selected, you will be contacted.																
Invoice To		Email 3			Analysis Request																
Same as Report To <input type="checkbox"/> YES <input type="checkbox"/> NO		Select Invoice			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																
Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO		Email 1 or F:																			
Company:		Email 2																			
Contact:																					
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 20 - Phase 3C-4C				Requisitioner:																	
LSD:				Location:																	
ALS Lab Work Order # (lab use only): C2985				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)	Total sulfide (low) (as H2S), Unionized Sulfide (low)	Anions scan (Br, Cl, F, NO2, NO3, SO4)	General parameters (alkalinity)	DOC	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS	
	WLNG US 1			04 Sep 24	10:40	Water	R	R	R	R	R	R	R	R	R	R	R	N		9	
	pH: 7.42 cond: 43 µS/cm temp: 16.0 °C																				
	WLNG DS 1			04 Sep 24	09:24	Water	R	R	R	R	R	R	R	R	R	R	R	N		9	
	pH: 7.45 cond: 156 µS/cm temp: 15.9 °C																				
	Duplicate					Water	R	R	R	R	R	R	R	R	R	R	R	N		9	
	Field Blank					Water	R	R	R	R	R	R	R	R	R	R	R	N		9	
	Trip Blank					Water	R	R	R	R	R	R	R	R	R	R	R	N		9	
				Environmental Division Vancouver Work Order Reference VA24C2985  Telephone: +1 804 253 4186																	
Drinking Water (DW) Samples¹ (client use)				Special Instructions / Specify																	
Are samples taken from a Regulated DW System?				Triton project # 11964																	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																					
Are samples for human consumption/ use?																					
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																					
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)						FINAL SHIPMENT RECEPTION (lab use only)											
Relk				4 Sept 24		17:32		Received by:		Date:		Received by: RJ		Date: Sep-4		Time: 17:40					



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

Reporting Week	Sept. 2 nd to Sept. 8 th , 2024
Report #	24
Appendix D	D-4

Woodfibre Site Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-4-Chycoski-DA885

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	09/04/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	
Temperature(c): Low 19 High 30		Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Dry

Observations

Time: 09:24:00 **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 DS 1
Description: US view



Photo: 2
Location: EAS DS 1
Description: Across view

Photos



Photo: 3
Location: EAS DS 1
Description: DS view

Chain of Custody (COC) / Analytical Request Form

ALS ENVIRONMENTAL
Canada Toll Free: 1 800 688 8878

Doc Number: 17-

Page: 1 of 1

Affix ALS barcode label here

Client: Tishan Environmental Ltd
Address: 254-350-2518
City/Province: Vancouver/BC
Project: 11864 - Task 20 - Phase 3C-4C

Request To: [] 1. [] 2. [] 3. [] 4. [] 5. [] 6. [] 7. [] 8. [] 9. [] 10. [] 11. [] 12. [] 13. [] 14. [] 15. [] 16. [] 17. [] 18. [] 19. [] 20. [] 21. [] 22. [] 23. [] 24. [] 25. [] 26. [] 27. [] 28. [] 29. [] 30. [] 31. [] 32. [] 33. [] 34. [] 35. [] 36. [] 37. [] 38. [] 39. [] 40. [] 41. [] 42. [] 43. [] 44. [] 45. [] 46. [] 47. [] 48. [] 49. [] 50. [] 51. [] 52. [] 53. [] 54. [] 55. [] 56. [] 57. [] 58. [] 59. [] 60. [] 61. [] 62. [] 63. [] 64. [] 65. [] 66. [] 67. [] 68. [] 69. [] 70. [] 71. [] 72. [] 73. [] 74. [] 75. [] 76. [] 77. [] 78. [] 79. [] 80. [] 81. [] 82. [] 83. [] 84. [] 85. [] 86. [] 87. [] 88. [] 89. [] 90. [] 91. [] 92. [] 93. [] 94. [] 95. [] 96. [] 97. [] 98. [] 99. [] 100. []

ALS Lab Work Order # (Sub Job #): 11864 - Task 20 - Phase 3C-4C

Sample Identification and/or Coordinates: (This description will appear on the report)

ALS Sample # (Sub Job #)	Sample Identification and/or Coordinates	Date (dd/mm/yyyy)	Time (hh:mm)	Sample Type
11864-20-3C-4C-01	43.50m from 16.0°C	04 Sep 24	10:40	Water
11864-20-3C-4C-02	15.6m from 15.9°C	04 Sep 24	09:29	Water

Shipping Release (Client use): []
Metal Spill Response (Sub Job use only): []
Final Spill Response (Sub Job use only): []

Photo: 4
Location: EAS DS 1
Description: Lab COC



2024-9-4-Chycoski-DA885

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-4-Chycoski-4AABD

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge
Inspection Date:	09/04/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669455 -123.25087
Temperature(c): Low 19 High 30		Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Dry

Observations

Time: 10:40:00 **Flow Volume (visual):** moderate

Notes:

Odour Detected?: No **Notes:**

Unusual Colour?: No **Notes:**

Unusual Observations?: No **Notes:**

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

Samples Collected - Parameters

Total Metals + Mercury	Yes	General Parameters (Alkalinity)	Yes	Other Sample:
Dissolved Metals + Mercury	Yes	Total Sulfide, Unionized Sulfide	Yes	
TSS	Yes	Anions	Yes	
TDS	Yes	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



Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

Received	Temperature C	Specific	Salinity	pH	pH	ORP mV	Dissolved	Turbidity	TL
		Conductivity					Oxygen		
		µS/cm	PSU				Concentration mg/L	NTU	Battery V
9/8/2024 23:50	16.5	23.63	0.01	7.11	407.24	8.35	0.57	12.12	
9/8/2024 23:40	16.52	23.74	0.01	7.11	406.85	8.35	0.59	12.12	
9/8/2024 23:30	16.54	23.79	0.01	7.12	406.48	8.34	0.59	12.12	
9/8/2024 23:20	16.56	23.89	0.01	7.11	406.85	8.33	0.56	12.21	
9/8/2024 23:10	16.58	23.65	0.01	7.13	406.02	8.32	0.57	12.21	
9/8/2024 23:00	16.6	23.88	0.01	7.12	405.95	8.35	0.59	12.21	
9/8/2024 22:50	16.62	23.66	0.01	7.11	407.46	8.32	0.57	12.12	
9/8/2024 22:40	16.64	23.83	0.01	7.12	406.64	8.32	0.57	12.21	
9/8/2024 22:30	16.66	23.79	0.01	7.1	407.92	8.32	0.58	12.12	
9/8/2024 22:20	16.68	23.8	0.01	7.11	407.18	8.3	0.58	12.12	
9/8/2024 22:10	16.7	23.63	0.01	7.14	405.93	8.28	0.58	12.12	
9/8/2024 22:00	16.73	23.91	0.01	7.12	407.41	8.3	0.56	12.24	
9/8/2024 21:50	16.75	23.8	0.01	7.12	407.63	8.29	0.58	12.24	
9/8/2024 21:40	16.77	23.92	0.01	7.11	408.02	8.29	0.57	12.24	
9/8/2024 21:30	16.79	23.7	0.01	7.13	407.63	8.29	0.6	12.24	
9/8/2024 21:20	16.81	23.93	0.01	7.11	407.69	8.29	0.59	12.24	
9/8/2024 21:10	16.83	23.76	0.01	7.12	408.29	8.28	0.62	12.24	
9/8/2024 21:00	16.86	23.9	0.01	7.12	408.04	8.27	1.13	12.26	
9/8/2024 20:50	16.88	23.83	0.01	7.12	408.51	8.27	0.58	12.24	
9/8/2024 20:40	16.9	23.88	0.01	7.12	408.15	8.25	0.59	12.26	
9/8/2024 20:30	16.93	23.74	0.01	7.12	408.17	8.22	0.6	12.26	
9/8/2024 20:20	16.95	23.94	0.01	7.11	408.14	8.25	0.6	12.17	
9/8/2024 20:10	16.97	23.75	0.01	7.12	407.67	8.23	0.59	12.26	
9/8/2024 20:00	17	23.88	0.01	7.11	407.59	8.27	0.57	12.14	
9/8/2024 19:50	17.02	23.65	0.01	7.11	407.56	8.24	0.6	12.26	
9/8/2024 19:40	17.04	23.83	0.01	7.12	406.49	8.26	0.6	12.17	
9/8/2024 19:30	17.06	23.62	0.01	7.12	406.74	8.27	0.6	12.17	
9/8/2024 19:20	17.08	23.78	0.01	7.14	405	8.28	0.62	12.17	
9/8/2024 19:10	17.1	23.59	0.01	7.15	404.11	8.27	0.59	12.31	
9/8/2024 19:00	17.13	23.76	0.01	7.13	404.15	8.29	0.59	12.31	
9/8/2024 18:50	17.15	23.6	0.01	7.15	402.72	8.31	0.62	12.29	
9/8/2024 18:40	17.18	23.67	0.01	7.15	402.52	8.3	0.64	12.33	
9/8/2024 18:30	17.2	23.46	0.01	7.17	401.73	8.33	0.61	12.36	
9/8/2024 18:20	17.22	23.55	0.01	7.16	401.2	8.34	0.6	12.48	
9/8/2024 18:10	17.24	23.33	0.01	7.2	399.23	8.37	0.6	12.6	
9/8/2024 18:00	17.25	23.39	0.01	7.17	400.08	8.34	0.6	12.62	
9/8/2024 17:50	17.26	23.33	0.01	7.23	397.11	8.36	0.63	12.6	
9/8/2024 17:40	17.28	23.43	0.01	7.18	399.84	8.37	0.6	12.6	
9/8/2024 17:30	17.3	23.18	0.01	7.22	397.58	8.39	0.6	12.62	
9/8/2024 17:20	17.32	23.36	0.01	7.2	397.89	8.4	0.59	12.65	
9/8/2024 17:10	17.33	23.28	0.01	7.22	396.62	8.4	0.61	12.55	

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/8/2024 17:00	17.34	23.23	0.01	7.2	397.16	8.43	0.61	12.72
9/8/2024 16:50	17.36	23.21	0.01	7.29	392.45	8.43	0.62	12.57
9/8/2024 16:40	17.37	23.26	0.01	7.21	395.62	8.47	0.61	12.79
9/8/2024 16:30	17.39	23.04	0.01	7.24	394.31	8.46	0.62	12.72
9/8/2024 16:20	17.42	23.24	0.01	7.23	394.49	8.48	0.61	12.88
9/8/2024 16:10	17.44	23.14	0.01	7.27	392.61	8.51	0.61	13
9/8/2024 16:00	17.48	23.19	0.01	7.27	392.44	8.52	0.63	12.84
9/8/2024 15:50	17.49	23.04	0.01	7.29	390.87	8.57	0.62	13.05
9/8/2024 15:40	17.5	23.13	0.01	7.27	392.38	8.57	0.61	13.08
9/8/2024 15:30	17.49	22.96	0.01	7.3	390.69	8.59	0.63	13.36
9/8/2024 15:20	17.46	23.06	0.01	7.29	390.77	8.63	0.62	13.22
9/8/2024 15:10	17.42	22.95	0.01	7.35	387.13	8.64	0.61	13.36
9/8/2024 15:00	17.35	23.07	0.01	7.3	389.88	8.66	0.61	13.39
9/8/2024 14:50	17.32	22.66	0.01	7.28	391.34	8.64	0.62	13.41
9/8/2024 14:40	17.31	23.02	0.01	7.3	390.02	8.67	0.58	13.29
9/8/2024 14:30	17.3	22.87	0.01	7.29	391.11	8.67	0.6	13.39
9/8/2024 14:20	17.3	23.07	0.01	7.3	389.72	8.71	0.62	13.36
9/8/2024 14:10	17.27	22.93	0.01	7.31	389.47	8.71	0.6	13.36
9/8/2024 14:00	17.31	23.06	0.01	7.31	389.06	8.73	0.62	13.36
9/8/2024 13:50	17.26	22.89	0.01	7.29	390.33	8.76	0.62	13.36
9/8/2024 13:40	17.28	23.07	0.01	7.31	388.39	8.78	0.61	13.36
9/8/2024 13:30	17.25	22.93	0.01	7.32	387.86	8.77	0.6	13.34
9/8/2024 13:20	17.22	23.08	0.01	7.32	387.73	8.78	0.61	13.27
9/8/2024 13:10	17.16	22.98	0.01	7.31	389.4	8.78	0.6	13.29
9/8/2024 13:00	17.13	23.09	0.01	7.31	388.12	8.81	0.6	13.41
9/8/2024 12:50	17.09	23	0.01	7.31	388.61	8.81	0.6	13.34
9/8/2024 12:40	17.08	23.01	0.01	7.33	387	8.84	0.59	13.44
9/8/2024 12:30	17.06	22.91	0.01	7.31	388.79	8.83	0.59	13.44
9/8/2024 12:20	17.07	23.11	0.01	7.32	386.97	8.83	0.61	13.44
9/8/2024 12:10	17.08	23.07	0.01	7.33	386.28	8.84	0.62	13.44
9/8/2024 12:00	17.07	23.18	0.01	7.32	386.67	8.85	0.59	13.44
9/8/2024 11:50	17.03	23.07	0.01	7.32	386.23	8.86	0.59	13.44
9/8/2024 11:40	17	23.12	0.01	7.32	387.46	8.87	0.62	13.44
9/8/2024 11:30	16.97	23.12	0.01	7.33	387.31	8.87	0.56	13.44
9/8/2024 11:20	16.93	23.18	0.01	7.32	387.52	8.89	0.6	13.44
9/8/2024 11:10	16.87	23.02	0.01	7.34	386.8	8.87	0.6	13.46
9/8/2024 11:00	16.81	23.15	0.01	7.32	388.24	8.88	0.59	13.46
9/8/2024 10:50	16.72	22.96	0.01	7.35	386.7	8.87	0.59	13.46
9/8/2024 10:40	16.64	23.15	0.01	7.31	389.41	8.86	0.57	13.36
9/8/2024 10:30	16.51	22.99	0.01	7.29	390.69	8.86	0.56	13.46
9/8/2024 10:20	16.42	23.21	0.01	7.26	392.4	8.86	0.56	13.48
9/8/2024 10:10	16.33	22.86	0.01	7.27	392.81	8.83	0.56	13.48
9/8/2024 10:00	16.24	23.18	0.01	7.24	394.33	8.79	0.57	13.46
9/8/2024 9:50	16.18	23.26	0.01	7.23	395.18	8.78	0.56	13.46
9/8/2024 9:40	16.15	23.29	0.01	7.21	395.35	8.77	0.54	13.17
9/8/2024 9:30	16.14	23.14	0.01	7.2	397	8.76	0.53	13.27
9/8/2024 9:20	16.12	23.37	0.01	7.2	396.18	8.74	0.53	12.76

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/8/2024 9:10	16.09	23.34	0.01	7.18	397.79	8.72	0.54	12.91
9/8/2024 9:00	16.06	23.47	0.01	7.14	400.21	8.68	0.56	12.57
9/8/2024 8:50	16.03	23.07	0.01	7.15	400.92	8.65	0.53	12.48
9/8/2024 8:40	16.02	23.55	0.01	7.14	401.3	8.61	0.52	12.29
9/8/2024 8:30	16.01	23.49	0.01	7.13	402.58	8.6	0.53	12.14
9/8/2024 8:20	16	23.55	0.01	7.14	402.15	8.56	0.55	12
9/8/2024 8:10	16	23.49	0.01	7.13	403.05	8.52	0.55	12.07
9/8/2024 8:00	16	23.59	0.01	7.12	403.76	8.52	0.54	12
9/8/2024 7:50	16.01	23.49	0.01	7.12	404.23	8.52	0.54	12.07
9/8/2024 7:40	16.02	23.67	0.01	7.12	404.02	8.51	0.54	12.07
9/8/2024 7:30	16.03	23.47	0.01	7.17	401.66	8.51	0.55	12.07
9/8/2024 7:20	16.05	23.68	0.01	7.11	404.69	8.51	0.53	12.07
9/8/2024 7:10	16.05	23.56	0.01	7.1	405.69	8.49	0.55	11.97
9/8/2024 7:00	16.06	23.65	0.01	7.1	405.78	8.48	0.55	11.95
9/8/2024 6:50	16.06	23.61	0.01	7.13	404.37	8.47	0.55	12.05
9/8/2024 6:40	16.07	23.67	0.01	7.1	406.09	8.46	0.55	12.05
9/8/2024 6:30	16.08	23.59	0.01	7.11	405.63	8.46	0.55	11.97
9/8/2024 6:20	16.08	23.62	0.01	7.1	405.66	8.45	0.56	11.95
9/8/2024 6:10	16.09	23.44	0.01	7.1	406.4	8.45	0.56	12.05
9/8/2024 6:00	16.1	23.61	0.01	7.11	406.26	8.46	0.54	12.05
9/8/2024 5:50	16.11	23.42	0.01	7.12	406.23	8.47	0.56	11.97
9/8/2024 5:40	16.12	23.68	0.01	7.1	406.36	8.46	0.55	11.97
9/8/2024 5:30	16.13	23.48	0.01	7.11	406.62	8.46	0.55	12.05
9/8/2024 5:20	16.15	23.68	0.01	7.1	406.62	8.45	0.55	12.07
9/8/2024 5:10	16.16	23.63	0.01	7.08	407.73	8.43	0.53	12.09
9/8/2024 5:00	16.17	23.71	0.01	7.1	406.46	8.43	0.54	12.09
9/8/2024 4:50	16.18	23.66	0.01	7.12	405.98	8.44	0.53	12.09
9/8/2024 4:40	16.19	23.69	0.01	7.1	406.61	8.44	0.53	12.09
9/8/2024 4:30	16.19	23.63	0.01	7.09	407.78	8.44	0.54	12.09
9/8/2024 4:20	16.21	23.66	0.01	7.11	406.44	8.45	0.55	12.09
9/8/2024 4:10	16.21	23.64	0.01	7.11	407.15	8.43	0.58	12
9/8/2024 4:00	16.22	23.73	0.01	7.1	407.32	8.42	0.57	12.12
9/8/2024 3:50	16.23	23.65	0.01	7.15	405.29	8.45	0.55	12.09
9/8/2024 3:40	16.23	23.75	0.01	7.11	406.8	8.42	0.54	12.05
9/8/2024 3:30	16.24	23.56	0.01	7.12	407.06	8.41	0.86	12.02
9/8/2024 3:20	16.25	23.65	0.01	7.1	408.04	8.4	0.54	12.02
9/8/2024 3:10	16.26	23.67	0.01	7.11	408.18	8.41	0.56	12.02
9/8/2024 3:00	16.28	23.75	0.01	7.1	408.11	8.41	0.57	12.12
9/8/2024 2:50	16.29	23.73	0.01	7.11	407.81	8.41	0.54	12.05
9/8/2024 2:40	16.31	23.75	0.01	7.1	408.29	8.41	0.56	12.17
9/8/2024 2:40	16.31	23.75	0.01	7.1	408.29	8.41	0.56	12.17
9/8/2024 2:30	16.33	23.58	0.01	7.19	403.97	8.39	0.56	12.17
9/8/2024 2:20	16.35	23.7	0.01	7.1	408.62	8.39	0.57	12.17
9/8/2024 2:10	16.37	23.73	0.01	7.1	409.38	8.38	0.54	12.14
9/8/2024 2:00	16.4	23.82	0.01	7.09	409.48	8.37	0.56	12.17
9/8/2024 1:50	16.42	23.76	0.01	7.12	408.24	8.39	0.56	12.17
9/8/2024 1:40	16.44	23.81	0.01	7.11	408.92	8.38	0.57	12.17

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/8/2024 1:30	16.45	23.67	0.01	7.09	410.23	8.36	0.57	12.19
9/8/2024 1:20	16.47	23.79	0.01	7.11	409	8.38	0.56	12.19
9/8/2024 1:10	16.49	23.68	0.01	7.12	408.39	8.37	0.56	12.19
9/8/2024 1:00	16.51	23.93	0.01	7.09	410.29	8.36	0.53	12.09
9/8/2024 0:50	16.53	23.86	0.01	7.1	410.42	8.35	0.62	12.17
9/8/2024 0:40	16.55	23.97	0.01	7.1	409.66	8.36	0.56	12.19
9/8/2024 0:30	16.57	23.85	0.01	7.11	409.89	8.35	0.59	12.09
9/8/2024 0:20	16.59	23.95	0.01	7.1	409.46	8.35	0.57	12.09
9/8/2024 0:10	16.62	23.77	0.01	7.11	409.43	8.33	0.58	12.12
9/8/2024 0:00	16.64	23.91	0.01	7.1	409.54	8.31	0.58	12.21
9/7/2024 23:50	16.66	23.93	0.01	7.09	410.33	8.32	0.6	12.21
9/7/2024 23:40	16.68	24.02	0.01	7.1	409.66	8.31	0.58	12.21
9/7/2024 23:30	16.7	23.89	0.01	7.09	410.4	8.31	0.56	12.21
9/7/2024 23:20	16.72	24.05	0.01	7.1	410.02	8.31	0.58	12.12
9/7/2024 23:10	16.74	23.88	0.01	7.09	410.52	8.3	0.57	12.19
9/7/2024 23:00	16.76	23.99	0.01	7.09	410.41	8.29	0.58	12.21
9/7/2024 22:50	16.78	24	0.01	7.11	409.46	8.29	0.59	12.21
9/7/2024 22:40	16.8	24.11	0.01	7.09	410.39	8.28	0.58	12.21
9/7/2024 22:30	16.82	24.01	0.01	7.11	409.63	8.26	0.59	12.24
9/7/2024 22:20	16.84	24.13	0.01	7.1	410.36	8.28	0.58	12.24
9/7/2024 22:10	16.85	24.07	0.01	7.13	408.64	8.28	0.58	12.14
9/7/2024 22:00	16.87	24.2	0.01	7.11	409.53	8.27	0.6	12.21
9/7/2024 21:50	16.89	24.04	0.01	7.09	410.64	8.25	0.59	12.24
9/7/2024 21:40	16.9	24.2	0.01	7.09	410.06	8.24	0.59	12.14
9/7/2024 21:30	16.92	24.03	0.01	7.11	409.17	8.26	0.6	12.14
9/7/2024 21:20	16.94	24.21	0.01	7.1	409.66	8.25	0.6	12.14
9/7/2024 21:10	16.95	23.97	0.01	7.1	409.49	8.24	0.6	12.24
9/7/2024 21:00	16.97	24.13	0.01	7.09	409.73	8.25	0.59	12.26
9/7/2024 20:50	16.99	24.1	0.01	7.09	409.7	8.24	0.59	12.17
9/7/2024 20:40	17.02	24.18	0.01	7.09	409.17	8.24	0.6	12.26
9/7/2024 20:30	17.04	24.1	0.01	7.12	407.64	8.24	0.58	12.24
9/7/2024 20:20	17.06	24.11	0.01	7.08	408.79	8.24	0.59	12.26
9/7/2024 20:10	17.07	23.72	0.01	7.11	407.75	8.24	0.6	12.26
9/7/2024 20:00	17.09	24.12	0.01	7.1	407.46	8.24	0.6	12.26
9/7/2024 19:50	17.1	23.96	0.01	7.15	405.02	8.24	0.58	12.26
9/7/2024 19:40	17.12	23.96	0.01	7.1	407.18	8.23	0.61	12.19
9/7/2024 19:30	17.14	23.78	0.01	7.12	406.49	8.25	0.58	12.19
9/7/2024 19:20	17.15	23.99	0.01	7.11	406.28	8.27	0.62	12.19
9/7/2024 19:10	17.17	23.87	0.01	7.17	402.69	8.27	0.61	12.24
9/7/2024 19:00	17.19	23.91	0.01	7.12	404.83	8.29	0.62	12.33
9/7/2024 18:50	17.2	23.7	0.01	7.13	404.94	8.3	0.62	12.36
9/7/2024 18:40	17.22	23.87	0.01	7.14	404.74	8.33	0.61	12.41
9/7/2024 18:30	17.23	23.55	0.01	7.14	404.69	8.35	0.61	12.45
9/7/2024 18:20	17.25	23.67	0.01	7.15	403.36	8.37	2.1	12.48
9/7/2024 18:10	17.27	23.43	0.01	7.17	402.11	8.38	0.61	12.41
9/7/2024 18:00	17.29	23.5	0.01	7.16	401.79	8.4	0.61	12.43
9/7/2024 17:50	17.3	23.46	0.01	7.18	401.12	8.41	0.62	12.55

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/7/2024 17:40	17.31	23.57	0.01	7.19	399.93	8.4	0.62	12.65
9/7/2024 17:30	17.32	23.39	0.01	7.19	400.27	8.42	0.6	12.67
9/7/2024 17:20	17.35	23.54	0.01	7.21	398.69	8.44	0.62	12.69
9/7/2024 17:10	17.36	23.26	0.01	7.2	398.95	8.46	0.61	12.76
9/7/2024 17:00	17.38	23.52	0.01	7.19	398.39	8.46	0.61	12.81
9/7/2024 16:50	17.4	23.28	0.01	7.18	398.58	8.46	0.61	12.91
9/7/2024 16:40	17.41	23.33	0.01	7.19	397.44	8.49	0.62	12.81
9/7/2024 16:30	17.42	23.26	0.01	7.2	397.62	8.53	0.63	12.91
9/7/2024 16:20	17.43	23.31	0.01	7.22	395.75	8.52	0.61	13.32
9/7/2024 16:10	17.45	23.13	0.01	7.21	396.27	8.53	0.64	13.24
9/7/2024 16:00	17.47	23.14	0.01	7.24	394.56	8.57	0.62	12.98
9/7/2024 15:50	17.46	22.97	0.01	7.28	392.43	8.57	0.64	13.27
9/7/2024 15:40	17.48	23.15	0.01	7.24	393.69	8.58	0.65	13.03
9/7/2024 15:30	17.46	22.8	0.01	7.28	392.17	8.62	0.63	13.17
9/7/2024 15:20	17.44	23.09	0.01	7.27	391.93	8.63	0.61	13.08
9/7/2024 15:10	17.43	22.78	0.01	7.29	390.52	8.65	0.61	13.29
9/7/2024 15:00	17.43	23	0.01	7.29	389.75	8.66	0.6	13.29
9/7/2024 14:50	17.41	22.76	0.01	7.28	390.81	8.67	0.6	13.29
9/7/2024 14:40	17.38	23	0.01	7.29	389.29	8.69	0.61	13.17
9/7/2024 14:30	17.36	22.8	0.01	7.32	387.09	8.69	0.6	13.17
9/7/2024 14:20	17.35	22.97	0.01	7.3	387.5	8.7	0.6	13.24
9/7/2024 14:10	17.33	22.78	0.01	7.28	388.33	8.73	0.63	13.27
9/7/2024 14:00	17.31	23.03	0.01	7.3	386.55	8.73	0.61	13.27
9/7/2024 13:50	17.29	22.85	0.01	7.3	386.05	8.75	0.61	13.24
9/7/2024 13:40	17.26	23.03	0.01	7.3	385.45	8.76	0.61	13.27
9/7/2024 13:30	17.23	22.87	0.01	7.3	385.23	8.78	0.58	13.27
9/7/2024 13:20	17.23	23.03	0.01	7.3	385.17	8.77	0.61	13.27
9/7/2024 13:10	17.23	23.01	0.01	7.29	385.46	8.79	0.61	13.29
9/7/2024 13:00	17.21	22.97	0.01	7.29	385.39	8.8	0.61	13.29
9/7/2024 12:50	17.18	22.9	0.01	7.27	386.28	8.82	0.62	13.22
9/7/2024 12:40	17.17	23.06	0.01	7.29	384.91	8.8	0.6	13.22
9/7/2024 12:30	17.14	22.89	0.01	7.29	385.11	8.84	0.62	13.22
9/7/2024 12:20	17.15	23.05	0.01	7.28	384.56	8.86	0.61	13.27
9/7/2024 12:10	17.13	22.87	0.01	7.3	384.08	8.9	0.6	13.36
9/7/2024 12:00	17.09	23.05	0.01	7.29	384.21	8.88	0.6	13.36
9/7/2024 11:50	17.04	23.02	0.01	7.29	384.44	8.91	0.58	13.24
9/7/2024 11:40	17.02	23.07	0.01	7.29	384.15	8.9	0.6	13.36
9/7/2024 11:30	16.98	22.75	0.01	7.31	383.37	8.9	0.6	13.29
9/7/2024 11:20	16.95	22.96	0.01	7.3	383.8	8.93	0.58	13.39
9/7/2024 11:10	16.87	22.75	0.01	7.29	384.89	8.94	0.58	13.29
9/7/2024 11:00	16.81	22.93	0.01	7.3	384.88	8.95	0.58	13.32
9/7/2024 10:50	16.69	22.77	0.01	7.32	384.36	8.95	0.56	13.34
9/7/2024 10:40	16.55	22.85	0.01	7.29	387.15	8.96	0.56	13.44
9/7/2024 10:30	16.38	22.83	0.01	7.29	388.73	8.97	0.56	13.36
9/7/2024 10:20	16.22	22.86	0.01	7.25	392.32	8.95	0.56	13.46
9/7/2024 10:10	16.07	22.8	0.01	7.26	393.66	8.94	0.55	13.46
9/7/2024 10:00	15.94	22.91	0.01	7.22	396.69	8.9	0.54	13.48

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/7/2024 9:50	15.83	22.88	0.01	7.2	399.41	8.86	0.54	13.48
9/7/2024 9:40	15.78	23.01	0.01	7.2	399.47	8.87	0.53	13.48
9/7/2024 9:30	15.78	22.84	0.01	7.22	399.17	8.86	0.53	13.48
9/7/2024 9:20	15.76	23.05	0.01	7.19	400.9	8.84	0.53	13.17
9/7/2024 9:10	15.72	22.97	0.01	7.2	402.07	8.84	0.52	12.98
9/7/2024 9:00	15.69	23.05	0.01	7.18	403.45	8.83	0.51	12.96
9/7/2024 8:50	15.65	22.94	0.01	7.17	404.43	8.8	0.57	12.74
9/7/2024 8:40	15.63	23.11	0.01	7.15	405.96	8.77	0.52	12.69
9/7/2024 8:30	15.62	22.58	0.01	7.15	406.97	8.76	0.53	12.72
9/7/2024 8:20	15.62	23.14	0.01	7.15	406.47	8.75	0.5	12.62
9/7/2024 8:10	15.61	23.1	0.01	7.15	407.77	8.71	0.53	12.53
9/7/2024 8:00	15.61	23.22	0.01	7.14	408.02	8.71	0.52	12.45
9/7/2024 7:50	15.61	23.17	0.01	7.14	409.09	8.7	0.5	12.24
9/7/2024 7:40	15.61	23.27	0.01	7.12	410.02	8.67	0.51	12.12
9/7/2024 7:30	15.62	22.85	0.01	7.13	410.2	8.64	0.51	12.14
9/7/2024 7:20	15.63	23.28	0.01	7.13	409.89	8.63	0.5	12.02
9/7/2024 7:10	15.65	22.94	0.01	7.14	410.24	8.62	0.51	12.09
9/7/2024 7:00	15.67	23.35	0.01	7.12	411.27	8.61	0.52	12.07
9/7/2024 6:50	15.68	23.01	0.01	7.14	410.51	8.58	0.51	12.07
9/7/2024 6:40	15.7	23.4	0.01	7.11	411.54	8.6	0.53	11.97
9/7/2024 6:30	15.72	23.36	0.01	7.1	412.81	8.58	0.52	11.95
9/7/2024 6:20	15.74	23.37	0.01	7.1	412.12	8.56	0.5	11.95
9/7/2024 6:10	15.76	23.35	0.01	7.17	408.27	8.56	0.51	12.07
9/7/2024 6:00	15.79	23.45	0.01	7.1	411.56	8.55	0.56	12.07
9/7/2024 5:50	15.81	23.01	0.01	7.11	411.39	8.56	0.52	12.07
9/7/2024 5:40	15.83	23.44	0.01	7.1	411.56	8.56	0.53	12.07
9/7/2024 5:30	15.85	23.4	0.01	7.12	411.3	8.56	0.52	12.07
9/7/2024 5:20	15.87	23.47	0.01	7.1	411.4	8.55	0.52	12.07
9/7/2024 5:10	15.89	23.31	0.01	7.1	412.24	8.54	0.54	12.07
9/7/2024 5:00	15.91	23.5	0.01	7.11	411.01	8.53	0.53	12.09
9/7/2024 4:50	15.93	23.32	0.01	7.14	409.36	8.53	0.51	12
9/7/2024 4:40	15.95	23.52	0.01	7.1	411.33	8.53	0.53	12
9/7/2024 4:30	15.97	23.41	0.01	7.12	410.73	8.53	0.55	12.12
9/7/2024 4:20	16	23.52	0.01	7.11	411.13	8.51	0.53	12.12
9/7/2024 4:10	16.02	23.47	0.01	7.09	412.56	8.52	0.53	12.09
9/7/2024 4:00	16.04	23.53	0.01	7.1	411.84	8.5	0.54	12.02
9/7/2024 3:50	16.06	23.33	0.01	7.1	412.29	8.5	0.54	12.02
9/7/2024 3:40	16.08	23.6	0.01	7.09	412.36	8.5	0.54	12.05
9/7/2024 3:30	16.1	23.4	0.01	7.12	411.02	8.49	0.55	12.14
9/7/2024 3:20	16.12	23.61	0.01	7.09	411.93	8.49	0.54	12.14
9/7/2024 3:10	16.15	23.53	0.01	7.09	412.66	8.48	0.55	12.14
9/7/2024 3:00	16.18	23.57	0.01	7.1	411.37	8.5	0.56	12.14
9/7/2024 2:50	16.2	23.32	0.01	7.11	411.08	8.48	0.55	12.14
9/7/2024 2:40	16.22	23.65	0.01	7.09	411.77	8.47	0.54	12.14
9/7/2024 2:30	16.24	23.45	0.01	7.09	412.1	8.47	0.56	12.05
9/7/2024 2:20	16.27	23.64	0.01	7.1	411.69	8.46	0.58	12.05
9/7/2024 2:10	16.29	23.57	0.01	7.09	412.62	8.45	0.56	12.17

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/7/2024 2:00	16.32	23.7	0.01	7.09	411.77	8.44	0.57	12.17
9/7/2024 1:50	16.34	23.49	0.01	7.09	412.45	8.43	0.55	12.17
9/7/2024 1:40	16.37	23.7	0.01	7.09	412.15	8.45	0.56	12.17
9/7/2024 1:30	16.39	23.66	0.01	7.09	412.34	8.41	0.56	12.17
9/7/2024 1:20	16.41	23.69	0.01	7.1	411.51	8.41	0.58	12.19
9/7/2024 1:10	16.44	23.53	0.01	7.08	412.78	8.42	0.57	12.17
9/7/2024 1:00	16.46	23.72	0.01	7.08	412.62	8.41	0.56	12.19
9/7/2024 0:50	16.48	23.69	0.01	7.1	411.73	8.41	0.57	12.19
9/7/2024 0:40	16.51	23.72	0.01	7.09	411.89	8.4	0.58	12.19
9/7/2024 0:30	16.53	23.73	0.01	7.09	412.7	8.39	0.55	12.09
9/7/2024 0:20	16.56	23.8	0.01	7.1	411.78	8.38	0.55	12.19
9/7/2024 0:10	16.59	23.4	0.01	7.11	412.01	8.37	0.58	12.19
9/7/2024 0:00	16.62	23.78	0.01	7.09	412.71	8.37	0.56	12.09
9/6/2024 23:50	16.64	23.73	0.01	7.11	412.13	8.37	0.58	12.12
9/6/2024 23:40	16.67	23.81	0.01	7.09	413.08	8.34	0.58	12.12
9/6/2024 23:30	16.7	23.76	0.01	7.09	413.28	8.34	0.57	12.12
9/6/2024 23:20	16.74	23.89	0.01	7.08	413.55	8.36	0.58	12.19
9/6/2024 23:10	16.77	23.46	0.01	7.08	413.8	8.33	0.56	12.21
9/6/2024 23:00	16.8	23.86	0.01	7.08	413.45	8.32	0.59	12.12
9/6/2024 22:50	16.83	23.65	0.01	7.1	412.19	8.32	0.6	12.12
9/6/2024 22:40	16.86	23.91	0.01	7.07	413.77	8.3	0.59	12.12
9/6/2024 22:30	16.89	23.7	0.01	7.12	411.82	8.31	0.57	12.21
9/6/2024 22:20	16.92	23.89	0.01	7.09	412.93	8.3	0.61	12.24
9/6/2024 22:10	16.95	23.82	0.01	7.09	413.16	8.29	0.58	12.24
9/6/2024 22:00	16.98	23.96	0.01	7.08	413.23	8.28	0.58	12.24
9/6/2024 21:50	17.02	23.82	0.01	7.07	413.89	8.27	0.59	12.24
9/6/2024 21:40	17.05	23.93	0.01	7.08	413.17	8.28	0.59	12.24
9/6/2024 21:30	17.07	23.72	0.01	7.1	412.36	8.26	0.59	12.24
9/6/2024 21:20	17.11	23.97	0.01	7.09	413.11	8.25	0.6	12.24
9/6/2024 21:10	17.13	23.93	0.01	7.11	411.67	8.25	0.6	12.24
9/6/2024 21:00	17.16	24.01	0.01	7.08	412.81	8.23	0.6	12.24
9/6/2024 20:50	17.18	23.97	0.01	7.11	411.85	8.24	0.59	12.24
9/6/2024 20:40	17.21	23.98	0.01	7.08	412.78	8.25	0.63	12.24
9/6/2024 20:30	17.23	23.83	0.01	7.1	411.48	8.22	0.61	12.17
9/6/2024 20:20	17.26	24.04	0.01	7.07	412.26	8.24	0.63	12.17
9/6/2024 20:10	17.28	23.73	0.01	7.11	410.82	8.24	0.6	12.26
9/6/2024 20:00	17.3	23.88	0.01	7.09	411.3	8.25	0.61	12.17
9/6/2024 19:50	17.32	23.91	0.01	7.08	411.9	8.23	0.62	12.26
9/6/2024 19:40	17.35	23.91	0.01	7.09	411	8.25	0.62	12.29
9/6/2024 19:30	17.37	23.72	0.01	7.09	410.86	8.26	0.62	12.29
9/6/2024 19:20	17.39	23.94	0.01	7.1	409.45	8.26	0.63	12.31
9/6/2024 19:10	17.4	23.44	0.01	7.13	408.01	8.28	0.62	12.33
9/6/2024 19:00	17.42	23.9	0.01	7.1	408.91	8.27	0.61	12.31
9/6/2024 18:50	17.44	23.8	0.01	7.1	408.97	8.29	0.62	12.29
9/6/2024 18:40	17.45	23.86	0.01	7.1	408.19	8.29	0.62	12.38
9/6/2024 18:30	17.47	23.64	0.01	7.11	407.94	8.31	0.63	12.43
9/6/2024 18:20	17.48	23.66	0.01	7.11	407.01	8.31	0.62	12.45

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/6/2024 18:10	17.49	23.63	0.01	7.13	405.89	8.32	0.66	12.45
9/6/2024 18:00	17.5	23.64	0.01	7.11	406.78	8.31	0.62	12.53
9/6/2024 18:00	17.5	23.64	0.01	7.11	406.78	8.31	0.62	12.53
9/6/2024 17:50	17.5	23.6	0.01	7.13	405.97	8.35	0.63	12.5
9/6/2024 17:40	17.5	23.58	0.01	7.11	406.19	8.36	0.61	12.43
9/6/2024 17:30	17.51	23.39	0.01	7.15	404.33	8.36	0.64	12.55
9/6/2024 17:20	17.52	23.53	0.01	7.14	404.4	8.38	0.61	12.57
9/6/2024 17:10	17.52	23.31	0.01	7.16	402.69	8.38	0.63	12.45
9/6/2024 17:00	17.53	23.43	0.01	7.15	403.11	8.4	0.62	12.57
9/6/2024 16:50	17.54	23.26	0.01	7.15	402.38	8.42	0.63	12.6
9/6/2024 16:40	17.56	23.45	0.01	7.16	401.56	8.42	0.62	12.62
9/6/2024 16:30	17.58	23.28	0.01	7.17	400.44	8.43	0.68	12.5
9/6/2024 16:20	17.61	23.4	0.01	7.18	399.01	8.46	0.63	12.55
9/6/2024 16:10	17.64	23.32	0.01	7.19	398.53	8.49	0.62	12.69
9/6/2024 16:00	17.68	23.4	0.01	7.2	396.78	8.51	0.63	12.84
9/6/2024 15:50	17.69	23.12	0.01	7.22	396.44	8.53	0.66	13.1
9/6/2024 15:40	17.7	23.25	0.01	7.22	395.44	8.55	0.64	12.84
9/6/2024 15:30	17.68	23.03	0.01	7.23	394.87	8.55	0.65	13.1
9/6/2024 15:20	17.64	23.17	0.01	7.24	393.93	8.56	0.65	12.96
9/6/2024 15:10	17.6	23.04	0.01	7.25	393.11	8.6	0.62	13.24
9/6/2024 15:00	17.58	23.16	0.01	7.25	392.56	8.62	0.63	12.96
9/6/2024 14:50	17.56	22.82	0.01	7.25	391.94	8.65	0.63	13.24
9/6/2024 14:40	17.52	23.13	0.01	7.26	390.38	8.65	0.64	13.24
9/6/2024 14:30	17.5	22.93	0.01	7.26	390.69	8.66	0.64	13.24
9/6/2024 14:20	17.48	23.1	0.01	7.27	389.44	8.71	0.62	13.2
9/6/2024 14:10	17.46	22.92	0.01	7.27	389.1	8.72	0.62	13.22
9/6/2024 14:00	17.42	23.09	0.01	7.27	387.84	8.73	0.61	13.1
9/6/2024 13:50	17.39	22.99	0.01	7.29	386.71	8.73	0.61	13.17
9/6/2024 13:40	17.35	23.12	0.01	7.28	386.83	8.76	0.61	13.22
9/6/2024 13:30	17.31	23.08	0.01	7.27	387.32	8.78	0.6	13.12
9/6/2024 13:20	17.29	23.12	0.01	7.27	387.31	8.8	0.62	13.12
9/6/2024 13:10	17.25	22.82	0.01	7.28	386.89	8.81	0.6	13.15
9/6/2024 13:00	17.2	23.16	0.01	7.27	387.14	8.81	0.6	13.29
9/6/2024 12:50	17.17	23.1	0.01	7.28	386.71	8.83	0.59	13.29
9/6/2024 12:40	17.14	23.16	0.01	7.27	386.73	8.87	0.59	13.2
9/6/2024 12:30	17.13	23.02	0.01	7.31	384.68	8.87	0.59	13.32
9/6/2024 12:20	17.13	23.19	0.01	7.27	386.1	8.87	0.6	13.32
9/6/2024 12:10	17.12	23.05	0.01	7.27	386.36	8.89	0.6	13.34
9/6/2024 12:00	17.08	23.15	0.01	7.28	385.83	8.92	0.61	13.34
9/6/2024 11:50	17.01	22.79	0.01	7.31	384.9	8.94	0.62	13.36
9/6/2024 11:40	16.97	23.1	0.01	7.28	386.39	8.93	0.59	13.36
9/6/2024 11:30	16.93	22.89	0.01	7.27	387.16	8.96	0.59	13.29
9/6/2024 11:20	16.91	22.96	0.01	7.29	386.57	8.96	0.59	13.39
9/6/2024 11:10	16.84	23.03	0.01	7.28	388.56	8.96	0.56	13.29
9/6/2024 11:00	16.77	23.02	0.01	7.28	388.37	8.96	0.57	13.32
9/6/2024 10:50	16.64	22.81	0.01	7.28	390.51	8.96	0.59	13.41
9/6/2024 10:40	16.51	22.9	0.01	7.27	391.84	8.96	0.57	13.44

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/6/2024 10:30	16.34	22.74	0.01	7.3	392.59	8.97	0.55	13.44
9/6/2024 10:20	16.18	22.98	0.01	7.23	397.85	8.96	0.54	13.44
9/6/2024 10:10	16.03	22.59	0.01	7.24	399.03	8.96	0.52	13.46
9/6/2024 10:00	15.91	23.02	0.01	7.2	402.86	8.92	0.51	13.46
9/6/2024 9:50	15.81	22.64	0.01	7.19	404.47	8.91	0.54	13.46
9/6/2024 9:40	15.77	23.06	0.01	7.16	406.6	8.89	0.52	13.44
9/6/2024 9:30	15.76	22.85	0.01	7.18	405.95	8.9	0.52	13.48
9/6/2024 9:20	15.74	23.04	0.01	7.18	406.87	8.9	0.51	13.24
9/6/2024 9:10	15.71	22.64	0.01	7.18	407.72	8.89	0.52	12.96
9/6/2024 9:00	15.68	23.06	0.01	7.17	409.12	8.85	0.5	12.91
9/6/2024 8:50	15.64	22.93	0.01	7.17	409.97	8.83	0.51	12.74
9/6/2024 8:40	15.63	23.04	0.01	7.14	411.34	8.81	0.51	12.65
9/6/2024 8:30	15.61	22.76	0.01	7.14	411.81	8.8	0.51	12.62
9/6/2024 8:20	15.61	23.19	0.01	7.14	411.97	8.77	0.53	12.48
9/6/2024 8:10	15.6	22.98	0.01	7.14	412.78	8.75	0.52	12.48
9/6/2024 8:00	15.6	23.21	0.01	7.12	413.85	8.75	0.51	12.48
9/6/2024 7:50	15.6	23.18	0.01	7.13	413.79	8.73	0.51	12.31
9/6/2024 7:40	15.6	23.19	0.01	7.12	414.6	8.7	0.53	12.19
9/6/2024 7:30	15.61	22.94	0.01	7.12	415.49	8.7	0.5	12.02
9/6/2024 7:20	15.63	23.3	0.01	7.1	416.65	8.69	0.52	12.09
9/6/2024 7:10	15.64	23.26	0.01	7.11	416.49	8.65	0.51	12.02
9/6/2024 7:00	15.65	23.36	0.01	7.11	416.46	8.65	0.51	12.07
9/6/2024 6:50	15.67	22.86	0.01	7.1	417.14	8.64	0.53	11.97
9/6/2024 6:40	15.69	23.41	0.01	7.1	416.42	8.64	0.55	11.95
9/6/2024 6:30	15.71	22.87	0.01	7.11	416.45	8.62	0.52	12.05
9/6/2024 6:20	15.73	23.44	0.01	7.1	416.18	8.62	0.52	11.95
9/6/2024 6:10	15.75	23.37	0.01	7.09	416.48	8.61	0.52	12.07
9/6/2024 6:00	15.77	23.4	0.01	7.11	415.5	8.62	0.51	12.09
9/6/2024 5:50	15.79	23.35	0.01	7.09	416.83	8.6	0.53	12.09
9/6/2024 5:40	15.81	23.46	0.01	7.11	415.43	8.59	0.53	12.09
9/6/2024 5:30	15.83	23.05	0.01	7.1	416.48	8.62	0.55	12.09
9/6/2024 5:20	15.86	23.42	0.01	7.1	416.13	8.58	0.54	12.09
9/6/2024 5:10	15.87	23.02	0.01	7.1	416.31	8.59	0.55	12.09
9/6/2024 5:00	15.89	23.48	0.01	7.1	416.2	8.59	0.54	12.12
9/6/2024 4:50	15.91	23.3	0.01	7.12	415.15	8.59	0.53	12.02
9/6/2024 4:40	15.93	23.49	0.01	7.1	416.14	8.59	0.51	12.02
9/6/2024 4:30	15.95	23.39	0.01	7.09	416.58	8.58	0.52	12.12
9/6/2024 4:20	15.97	23.52	0.01	7.1	415.56	8.56	0.53	12.12
9/6/2024 4:10	15.99	23.35	0.01	7.1	415.79	8.56	0.52	12.12
9/6/2024 4:00	16.01	23.52	0.01	7.08	416.36	8.56	0.54	12.12
9/6/2024 3:50	16.04	23.43	0.01	7.11	415.16	8.54	0.56	12.14
9/6/2024 3:40	16.06	23.57	0.01	7.09	415.48	8.54	0.53	12.02
9/6/2024 3:30	16.08	23.36	0.01	7.09	415.73	8.55	0.55	12.02
9/6/2024 3:20	16.11	23.6	0.01	7.09	414.96	8.53	0.56	12.14
9/6/2024 3:10	16.12	23.52	0.01	7.08	415.8	8.53	0.55	12.14
9/6/2024 3:00	16.15	23.55	0.01	7.09	415.11	8.53	0.54	12.07
9/6/2024 2:50	16.17	23.38	0.01	7.09	415.51	8.52	0.53	12.17

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/6/2024 2:40	16.19	23.56	0.01	7.09	415.29	8.51	0.55	12.17
9/6/2024 2:30	16.21	23.24	0.01	7.07	416.36	8.53	0.55	12.17
9/6/2024 2:20	16.23	23.56	0.01	7.1	414.21	8.51	0.55	12.07
9/6/2024 2:10	16.25	23.59	0.01	7.11	413.8	8.51	0.54	12.17
9/6/2024 2:00	16.27	23.61	0.01	7.1	414.02	8.5	0.56	12.17
9/6/2024 1:50	16.29	23.54	0.01	7.08	415.2	8.5	0.55	12.07
9/6/2024 1:40	16.32	23.69	0.01	7.1	413.71	8.48	0.57	12.07
9/6/2024 1:30	16.34	23.53	0.01	7.08	415.11	8.47	0.55	12.09
9/6/2024 1:20	16.37	23.72	0.01	7.09	414.22	8.46	0.58	12.19
9/6/2024 1:10	16.39	23.31	0.01	7.09	414.26	8.45	0.57	12.19
9/6/2024 1:00	16.42	23.71	0.01	7.09	413.93	8.45	0.56	12.09
9/6/2024 0:50	16.44	23.45	0.01	7.08	414.52	8.44	0.56	12.19
9/6/2024 0:40	16.46	23.75	0.01	7.08	414.17	8.44	0.57	12.14
9/6/2024 0:30	16.49	23.37	0.01	7.08	414.93	8.44	0.59	12.19
9/6/2024 0:20	16.51	23.63	0.01	7.08	415.19	8.43	0.54	12.19
9/6/2024 0:10	16.54	23.51	0.01	7.08	415.95	8.42	0.56	12.19
9/6/2024 0:00	16.57	23.72	0.01	7.08	415.27	8.44	0.55	12.19
9/5/2024 23:50	16.59	23.67	0.01	7.09	415.29	8.41	0.58	12.19
9/5/2024 23:40	16.63	23.7	0.01	7.09	415.13	8.4	0.55	12.09
9/5/2024 23:30	16.66	23.68	0.01	7.1	413.94	8.4	0.57	12.19
9/5/2024 23:20	16.69	23.79	0.01	7.08	414.76	8.4	0.57	12.21
9/5/2024 23:10	16.71	23.65	0.01	7.09	415.1	8.38	0.57	12.21
9/5/2024 23:00	16.74	23.77	0.01	7.09	414.82	8.38	0.57	12.14
9/5/2024 22:50	16.77	23.67	0.01	7.08	415.45	8.37	0.6	12.14
9/5/2024 22:40	16.8	23.8	0.01	7.09	414.52	8.36	0.59	12.21
9/5/2024 22:30	16.82	23.57	0.01	7.08	415.2	8.36	0.57	12.21
9/5/2024 22:20	16.85	23.77	0.01	7.08	415.12	8.35	0.59	12.12
9/5/2024 22:10	16.88	23.69	0.01	7.07	415.13	8.33	0.55	12.21
9/5/2024 22:00	16.91	23.82	0.01	7.09	413.76	8.35	0.61	12.21
9/5/2024 21:50	16.94	23.61	0.01	7.07	414.62	8.34	0.58	12.24
9/5/2024 21:40	16.96	23.73	0.01	7.09	413.58	8.31	0.6	12.24
9/5/2024 21:30	16.99	23.74	0.01	7.08	414.04	8.33	0.59	12.24
9/5/2024 21:20	17.01	23.8	0.01	7.09	413.64	8.33	0.56	12.24
9/5/2024 21:10	17.04	23.63	0.01	7.1	413.05	8.31	0.59	12.24
9/5/2024 21:00	17.06	23.9	0.01	7.08	413.42	8.31	0.6	12.26
9/5/2024 20:50	17.09	23.71	0.01	7.08	413.98	8.32	0.59	12.24
9/5/2024 20:40	17.11	23.89	0.01	7.09	412.92	8.29	0.6	12.26
9/5/2024 20:30	17.13	23.7	0.01	7.1	412.62	8.31	0.57	12.26
9/5/2024 20:20	17.15	23.78	0.01	7.1	411.79	8.3	0.6	12.26
9/5/2024 20:10	17.18	23.7	0.01	7.08	412.66	8.29	0.62	12.24
9/5/2024 20:00	17.2	23.84	0.01	7.1	411.29	8.3	0.61	12.26
9/5/2024 19:50	17.21	23.64	0.01	7.14	408.98	8.31	0.59	12.26
9/5/2024 19:40	17.22	23.82	0.01	7.09	410.87	8.3	0.62	12.19
9/5/2024 19:30	17.24	23.38	0.01	7.11	409.57	8.3	0.61	12.29
9/5/2024 19:20	17.26	23.8	0.01	7.1	409.45	8.31	0.59	12.21
9/5/2024 19:10	17.27	23.62	0.01	7.08	410.72	8.35	0.58	12.21
9/5/2024 19:00	17.29	23.68	0.01	7.08	410.25	8.33	0.61	12.21

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/5/2024 18:50	17.3	23.43	0.01	7.1	409.28	8.33	0.62	12.24
9/5/2024 18:40	17.33	23.74	0.01	7.11	408.42	8.34	0.59	12.24
9/5/2024 18:30	17.35	23.56	0.01	7.1	408.74	8.32	0.62	12.33
9/5/2024 18:20	17.36	23.71	0.01	7.11	407.87	8.36	0.62	12.29
9/5/2024 18:10	17.37	23.31	0.01	7.11	407.23	8.36	0.61	12.48
9/5/2024 18:00	17.37	23.66	0.01	7.1	407.21	8.37	0.63	12.5
9/5/2024 17:50	17.37	23.41	0.01	7.1	407.81	8.35	0.59	12.5
9/5/2024 17:40	17.38	23.54	0.01	7.11	406.61	8.37	0.64	12.53
9/5/2024 17:30	17.39	23.38	0.01	7.12	406.43	8.39	0.6	12.55
9/5/2024 17:20	17.4	23.49	0.01	7.12	405.57	8.39	0.61	12.55
9/5/2024 17:10	17.41	23.32	0.01	7.12	405.55	8.38	0.63	12.55
9/5/2024 17:00	17.42	23.46	0.01	7.13	404.69	8.41	0.61	12.57
9/5/2024 16:50	17.42	23.03	0.01	7.16	402.58	8.4	0.61	12.57
9/5/2024 16:40	17.44	23.33	0.01	7.15	402.18	8.44	0.62	12.57
9/5/2024 16:30	17.46	23.27	0.01	7.16	401.47	8.45	0.62	12.48
9/5/2024 16:20	17.51	23.29	0.01	7.16	400.79	8.47	0.61	12.45
9/5/2024 16:10	17.55	23.21	0.01	7.17	399.99	8.48	0.62	12.6
9/5/2024 16:00	17.59	23.24	0.01	7.18	398.44	8.5	0.62	12.53
9/5/2024 15:50	17.6	23.16	0.01	7.22	395.69	8.54	0.62	12.53
9/5/2024 15:40	17.61	23.16	0.01	7.21	395.63	8.55	0.63	12.62
9/5/2024 15:30	17.58	23.09	0.01	7.2	396.43	8.57	0.64	12.79
9/5/2024 15:20	17.55	23.13	0.01	7.22	394.26	8.58	0.63	12.57
9/5/2024 15:10	17.53	22.95	0.01	7.28	390.44	8.59	0.64	12.6
9/5/2024 15:00	17.54	23.07	0.01	7.23	392.58	8.61	0.61	13.1
9/5/2024 14:50	17.51	22.94	0.01	7.22	393.13	8.62	0.59	13.24
9/5/2024 14:40	17.48	23.03	0.01	7.21	392.43	8.63	0.69	13.17
9/5/2024 14:30	17.45	22.91	0.01	7.26	389.09	8.67	0.6	13.22
9/5/2024 14:20	17.43	23.07	0.01	7.24	389.23	8.67	0.6	13.2
9/5/2024 14:10	17.39	22.92	0.01	7.27	386.42	8.71	0.61	13.17
9/5/2024 14:00	17.35	23.08	0.01	7.24	387.02	8.71	0.6	13.17
9/5/2024 13:50	17.32	22.95	0.01	7.25	385.61	8.72	0.6	13.17
9/5/2024 13:40	17.31	23.07	0.01	7.25	385.44	8.76	0.6	13.17
9/5/2024 13:30	17.26	22.91	0.01	7.27	383.62	8.78	0.62	13.2
9/5/2024 13:20	17.23	23.12	0.01	7.24	384.75	8.78	0.6	13.12
9/5/2024 13:10	17.19	23.01	0.01	7.25	384.4	8.81	0.6	13.12
9/5/2024 13:00	17.16	23.13	0.01	7.24	384.17	8.81	0.6	13.17
9/5/2024 12:50	17.15	23.04	0.01	7.23	384.58	8.8	0.59	13.27
9/5/2024 12:40	17.14	23.11	0.01	7.24	383.08	8.8	0.58	13.29
9/5/2024 12:30	17.11	23	0.01	7.24	382.93	8.86	0.61	13.29
9/5/2024 12:20	17.14	23.16	0.01	7.24	382	8.89	0.58	13.29
9/5/2024 12:10	17.12	22.88	0.01	7.25	382.37	8.89	0.64	13.32
9/5/2024 12:00	17.09	23.14	0.01	7.26	382.09	8.9	0.58	13.34
9/5/2024 11:50	17.04	22.97	0.01	7.25	383.69	8.94	0.58	13.34
9/5/2024 11:40	16.98	23.05	0.01	7.26	383.22	8.93	0.6	13.36
9/5/2024 11:30	16.97	22.83	0.01	7.26	382.8	8.96	0.57	13.36
9/5/2024 11:20	16.94	23.05	0.01	7.26	382.77	8.96	0.56	13.39
9/5/2024 11:10	16.85	22.87	0.01	7.27	382.43	8.97	0.56	13.39

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/5/2024 11:00	16.76	22.87	0.01	7.26	385.72	8.99	0.56	13.39
9/5/2024 10:50	16.62	22.75	0.01	7.27	387.67	8.99	0.57	13.39
9/5/2024 10:40	16.44	22.96	0.01	7.24	391.75	9	0.55	13.41
9/5/2024 10:30	16.29	22.78	0.01	7.24	393.97	9.02	0.54	13.41
9/5/2024 10:20	16.1	22.87	0.01	7.22	397.64	9.02	0.53	13.41
9/5/2024 10:10	15.92	22.85	0.01	7.2	402.05	9	0.53	13.44
9/5/2024 10:00	15.76	22.9	0.01	7.19	405.67	8.92	0.51	13.44
9/5/2024 9:50	15.65	22.9	0.01	7.16	408.54	8.92	0.49	13.44
9/5/2024 9:40	15.6	22.93	0.01	7.16	408.82	8.91	0.5	13.44
9/5/2024 9:30	15.6	22.92	0.01	7.15	409.91	8.91	0.51	13.12
9/5/2024 9:20	15.57	22.95	0.01	7.16	410.4	8.91	0.48	13.15
9/5/2024 9:10	15.53	22.76	0.01	7.17	410.74	8.89	0.5	12.67
9/5/2024 9:00	15.51	22.96	0.01	7.15	413.26	8.87	0.5	12.57
9/5/2024 8:50	15.47	22.8	0.01	7.15	414.44	8.87	0.48	12.45
9/5/2024 8:40	15.44	23.02	0.01	7.13	416	8.84	0.53	12.48
9/5/2024 8:30	15.42	22.95	0.01	7.2	412.52	8.82	0.51	12.43
9/5/2024 8:20	15.42	23.08	0.01	7.14	416.39	8.82	0.53	12.26
9/5/2024 8:10	15.41	23	0.01	7.13	417.36	8.8	0.49	12.19
9/5/2024 8:00	15.4	23.11	0.01	7.11	418.58	8.81	0.49	12.21
9/5/2024 7:50	15.4	22.86	0.01	7.13	418.64	8.78	0.51	12.24
9/5/2024 7:40	15.4	23.1	0.01	7.12	419.32	8.78	0.5	12.12
9/5/2024 7:30	15.4	23.04	0.01	7.12	420.07	8.76	0.46	12.09
9/5/2024 7:20	15.41	23.17	0.01	7.12	420.01	8.78	0.48	12.07
9/5/2024 7:10	15.42	23.09	0.01	7.11	420.98	8.76	0.51	12.07
9/5/2024 7:00	15.43	23.13	0.01	7.12	420.32	8.73	0.49	12.05
9/5/2024 6:50	15.44	22.83	0.01	7.15	418.97	8.74	0.51	11.95
9/5/2024 6:40	15.45	23.24	0.01	7.11	420.62	8.72	0.5	12.05
9/5/2024 6:30	15.46	23.14	0.01	7.11	420.84	8.74	0.51	11.97
9/5/2024 6:20	15.47	23.18	0.01	7.11	420.97	8.7	0.5	12.05
9/5/2024 6:10	15.48	22.97	0.01	7.1	421.44	8.71	0.5	12.05
9/5/2024 6:00	15.49	23.26	0.01	7.1	421.54	8.71	0.51	12.05
9/5/2024 5:50	15.5	23.21	0.01	7.1	421.96	8.7	0.49	11.95
9/5/2024 5:40	15.51	23.25	0.01	7.1	422.12	8.71	0.5	11.97
9/5/2024 5:30	15.52	23.08	0.01	7.1	421.87	8.72	0.5	12.07
9/5/2024 5:20	15.54	23.31	0.01	7.1	421.3	8.7	0.51	11.97
9/5/2024 5:10	15.55	23.23	0.01	7.13	420.2	8.7	0.48	11.97
9/5/2024 5:00	15.56	23.33	0.01	7.09	421.58	8.7	0.51	12.09
9/5/2024 4:50	15.58	22.91	0.01	7.09	422.2	8.69	0.51	12.09
9/5/2024 4:40	15.59	23.35	0.01	7.1	421.39	8.69	0.52	12.09
9/5/2024 4:30	15.6	22.99	0.01	7.09	421.93	8.68	0.53	12.02
9/5/2024 4:20	15.62	23.36	0.01	7.1	421.01	8.68	0.67	12
9/5/2024 4:10	15.63	23.16	0.01	7.1	421.14	8.68	0.52	12
9/5/2024 4:00	15.65	23.37	0.01	7.1	420.44	8.69	0.53	12.02
9/5/2024 3:50	15.66	23.24	0.01	7.11	420.25	8.67	0.48	12.12
9/5/2024 3:40	15.67	23.37	0.01	7.12	419.52	8.69	0.53	12.12
9/5/2024 3:30	15.68	23.17	0.01	7.11	420.38	8.68	0.52	12.05
9/5/2024 3:20	15.69	23.35	0.01	7.1	420.04	8.68	0.51	12.05

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/5/2024 3:10	15.7	23.3	0.01	7.1	420.19	8.68	0.51	12.05
9/5/2024 3:00	15.72	23.35	0.01	7.1	419.59	8.68	0.49	12.05
9/5/2024 2:50	15.73	23.19	0.01	7.14	418.01	8.65	0.52	12.14
9/5/2024 2:40	15.75	23.41	0.01	7.11	419.34	8.67	0.51	12.17
9/5/2024 2:30	15.75	23.31	0.01	7.1	419.92	8.66	0.49	12.17
9/5/2024 2:20	15.77	23.37	0.01	7.1	420.35	8.66	0.52	12.17
9/5/2024 2:10	15.78	23.03	0.01	7.1	420.23	8.65	0.51	12.17
9/5/2024 2:00	15.8	23.45	0.01	7.1	419.74	8.64	0.52	12.17
9/5/2024 1:50	15.82	23.22	0.01	7.14	417.94	8.65	0.53	12.19
9/5/2024 1:40	15.83	23.49	0.01	7.11	419.05	8.65	0.53	12.19
9/5/2024 1:30	15.85	23.44	0.01	7.11	419.28	8.65	0.53	12.17
9/5/2024 1:20	15.86	23.53	0.01	7.09	419.61	8.63	0.53	12.19
9/5/2024 1:10	15.88	23.38	0.01	7.1	419.42	8.63	0.52	12.17
9/5/2024 1:00	15.9	23.53	0.01	7.09	419.25	8.64	0.54	12.09
9/5/2024 0:50	15.91	23.47	0.01	7.1	418.94	8.61	0.52	12.09
9/5/2024 0:40	15.93	23.57	0.01	7.1	418.6	8.62	0.52	12.12
9/5/2024 0:30	15.95	23.16	0.01	7.11	418.33	8.61	0.52	12.19
9/5/2024 0:20	15.96	23.52	0.01	7.09	419.01	8.6	0.5	12.09
9/5/2024 0:10	15.98	23.45	0.01	7.1	418.24	8.59	0.52	12.09
9/5/2024 0:00	16	23.58	0.01	7.09	418.69	8.6	0.54	12.21
9/4/2024 23:50	16.02	23.48	0.01	7.11	418.1	8.59	0.53	12.21
9/4/2024 23:40	16.04	23.59	0.01	7.09	418.48	8.57	0.53	12.21
9/4/2024 23:30	16.06	23.32	0.01	7.11	417.72	8.59	0.56	12.19
9/4/2024 23:20	16.08	23.56	0.01	7.09	418.24	8.57	0.52	12.19
9/4/2024 23:10	16.1	23.27	0.01	7.09	418.52	8.57	0.51	12.12
9/4/2024 23:00	16.12	23.63	0.01	7.1	417.55	8.56	0.55	12.21
9/4/2024 22:50	16.14	23.42	0.01	7.12	416.6	8.57	0.55	12.21
9/4/2024 22:40	16.17	23.59	0.01	7.08	418.19	8.55	0.53	12.24
9/4/2024 22:30	16.19	23.55	0.01	7.09	418.54	8.55	0.53	12.24
9/4/2024 22:20	16.21	23.6	0.01	7.08	418.33	8.54	0.53	12.14
9/4/2024 22:10	16.23	23.56	0.01	7.09	418.23	8.54	0.54	12.14
9/4/2024 22:00	16.26	23.6	0.01	7.09	417.9	8.54	0.57	12.24
9/4/2024 21:50	16.28	23.6	0.01	7.08	418.41	8.52	0.54	12.14
9/4/2024 21:40	16.3	23.58	0.01	7.09	417.52	8.52	0.55	12.24
9/4/2024 21:30	16.32	23.51	0.01	7.1	416.82	8.51	0.53	12.24
9/4/2024 21:20	16.34	23.58	0.01	7.09	417.52	8.51	0.55	12.17
9/4/2024 21:10	16.36	23.61	0.01	7.09	417.43	8.51	0.53	12.24
9/4/2024 21:00	16.39	23.72	0.01	7.08	417.4	8.51	0.55	12.26
9/4/2024 20:50	16.41	23.53	0.01	7.12	415.11	8.5	0.56	12.24
9/4/2024 20:40	16.43	23.73	0.01	7.09	416.09	8.5	0.55	12.17
9/4/2024 20:30	16.45	23.3	0.01	7.13	414.07	8.48	0.54	12.17
9/4/2024 20:20	16.46	23.65	0.01	7.09	415.27	8.5	0.56	12.26
9/4/2024 20:10	16.48	23.56	0.01	7.1	415.01	8.5	0.53	12.26
9/4/2024 20:00	16.49	23.64	0.01	7.09	414.41	8.49	0.56	12.26
9/4/2024 19:50	16.51	23.5	0.01	7.12	412.92	8.48	0.54	12.29
9/4/2024 19:40	16.52	23.58	0.01	7.1	413.58	8.5	0.55	12.19
9/4/2024 19:30	16.53	23.35	0.01	7.1	413.78	8.53	0.56	12.19

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/4/2024 19:20	16.54	23.4	0.01	7.1	412.89	8.52	0.56	12.29
9/4/2024 19:10	16.55	23.39	0.01	7.11	412.27	8.5	0.55	12.19
9/4/2024 19:00	16.57	23.48	0.01	7.1	411.72	8.52	0.56	12.33
9/4/2024 18:50	16.58	23.27	0.01	7.11	411.24	8.53	0.54	12.33
9/4/2024 18:40	16.59	23.38	0.01	7.1	410.74	8.52	0.54	12.36
9/4/2024 18:30	16.61	23.28	0.01	7.11	410.7	8.53	0.55	12.36
9/4/2024 18:20	16.62	23.23	0.01	7.11	410.01	8.52	0.6	12.41
9/4/2024 18:10	16.64	23.16	0.01	7.15	407.57	8.54	0.57	12.41
9/4/2024 18:00	16.65	23.23	0.01	7.11	409.11	8.54	0.58	12.29
9/4/2024 17:50	16.65	23.01	0.01	7.14	407.75	8.55	0.57	12.31
9/4/2024 17:40	16.65	23.11	0.01	7.13	407.42	8.56	0.57	12.41
9/4/2024 17:30	16.65	22.9	0.01	7.15	406.67	8.57	0.56	12.55
9/4/2024 17:20	16.65	22.94	0.01	7.16	404.99	8.59	0.59	12.57
9/4/2024 17:10	16.65	22.91	0.01	7.17	404.4	8.59	0.57	12.53
9/4/2024 17:00	16.66	22.98	0.01	7.16	403.47	8.58	0.58	12.57
9/4/2024 16:50	16.67	22.74	0.01	7.17	402.81	8.61	0.55	12.45
9/4/2024 16:40	16.68	22.9	0.01	7.18	401.09	8.62	0.59	12.6
9/4/2024 16:30	16.71	22.71	0.01	7.2	399.35	8.62	0.56	12.69
9/4/2024 16:20	16.74	22.87	0.01	7.19	399.51	8.66	0.57	12.62
9/4/2024 16:10	16.78	22.79	0.01	7.24	398.26	8.67	0.58	12.88
9/4/2024 16:00	16.8	22.71	0.01	7.21	397.36	8.68	0.56	12.93
9/4/2024 15:50	16.81	22.55	0.01	7.23	396.16	8.71	0.57	12.84
9/4/2024 15:40	16.81	22.78	0.01	7.23	395.25	8.73	0.56	12.6
9/4/2024 15:30	16.79	22.64	0.01	7.23	395.51	8.75	0.56	12.57
9/4/2024 15:20	16.76	22.64	0.01	7.23	394.2	8.75	0.58	12.62
9/4/2024 15:10	16.74	22.47	0.01	7.22	394.45	8.78	0.56	12.81
9/4/2024 15:00	16.71	22.74	0.01	7.23	392.99	8.78	0.56	13.22
9/4/2024 14:50	16.69	22.34	0.01	7.23	392.8	8.8	0.57	13.36
9/4/2024 14:40	16.65	22.68	0.01	7.24	390.87	8.82	0.56	13.34
9/4/2024 14:30	16.66	22.61	0.01	7.24	390.02	8.83	0.58	13.29
9/4/2024 14:20	16.64	22.7	0.01	7.25	388.5	8.86	0.56	13.32
9/4/2024 14:10	16.58	22.29	0.01	7.26	386.99	8.84	0.57	13.2
9/4/2024 14:00	16.58	22.67	0.01	7.26	386.34	8.89	0.55	13.32
9/4/2024 13:50	16.53	22.58	0.01	7.25	386.27	8.89	0.57	13.32
9/4/2024 13:40	16.45	22.7	0.01	7.25	385.08	8.93	0.56	13.24
9/4/2024 13:30	16.41	22.6	0.01	7.28	382.96	8.93	0.53	13.34
9/4/2024 13:20	16.35	22.71	0.01	7.26	383.73	8.95	0.53	13.36
9/4/2024 13:10	16.33	22.32	0.01	7.25	384.34	8.95	0.54	13.39
9/4/2024 13:00	16.3	22.72	0.01	7.26	382.93	8.97	0.55	13.44
9/4/2024 12:50	16.28	22.65	0.01	7.25	382.24	8.97	0.54	13.27
9/4/2024 12:40	16.29	22.7	0.01	7.26	381.35	8.99	0.67	13.34
9/4/2024 12:30	16.29	22.7	0.01	7.27	380.82	9	0.57	13.44
9/4/2024 12:20	16.35	22.75	0.01	7.27	379.37	9.04	0.56	13.46
9/4/2024 12:10	16.33	22.61	0.01	7.27	380.12	9.05	0.55	13.46
9/4/2024 12:00	16.33	22.76	0.01	7.27	379.48	9.05	0.68	13.46
9/4/2024 11:50	16.27	22.59	0.01	7.29	379.61	9.05	0.54	13.44
9/4/2024 11:40	16.26	22.82	0.01	7.27	379.58	9.07	0.54	13.32

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/4/2024 11:30	16.25	22.51	0.01	7.28	380.21	9.07	0.52	13.34
9/4/2024 11:20	16.23	22.74	0.01	7.27	379.49	9.07	0.54	13.44
9/4/2024 11:10	16.23	22.52	0.01	7.27	381.77	9.09	0.53	13.44
9/4/2024 11:00	16.11	22.69	0.01	7.27	383.02	9.09	0.53	13.34
9/4/2024 10:50	15.95	22.6	0.01	7.26	385.96	9.12	0.51	13.44
9/4/2024 10:40	15.79	22.6	0.01	7.25	388.52	9.13	0.49	13.39
9/4/2024 10:30	15.62	22.58	0.01	7.24	392.36	9.13	0.49	13.36
9/4/2024 10:20	15.44	22.6	0.01	7.23	396.32	9.14	0.49	13.48
9/4/2024 10:10	15.26	22.1	0.01	7.21	400.62	9.13	0.48	13.48
9/4/2024 10:00	15.1	22.72	0.01	7.19	404.66	9.05	0.49	13.51
9/4/2024 9:50	15	22.63	0.01	7.18	408.16	9.05	0.46	13.51
9/4/2024 9:40	14.95	22.76	0.01	7.18	407.16	9.05	0.45	13.51
9/4/2024 9:30	14.93	22.64	0.01	7.21	406.69	9.04	0.45	13.29
9/4/2024 9:20	14.91	22.72	0.01	7.18	409.98	9.05	0.46	12.93
9/4/2024 9:10	14.88	22.65	0.01	7.17	411.53	9.05	0.45	12.74
9/4/2024 9:00	14.86	22.66	0.01	7.16	412.98	9.04	0.46	12.5
9/4/2024 8:50	14.82	22.67	0.01	7.16	414.61	9.02	0.45	12.33
9/4/2024 8:40	14.8	22.76	0.01	7.14	415.56	9	0.47	12.5
9/4/2024 8:30	14.78	22.49	0.01	7.18	414.22	8.98	0.44	12.48
9/4/2024 8:20	14.76	22.72	0.01	7.15	416.17	8.98	0.47	12.38
9/4/2024 8:10	14.75	22.3	0.01	7.13	417.55	8.95	0.46	12.26
9/4/2024 8:00	14.74	22.8	0.01	7.15	416.82	8.96	0.44	12.19
9/4/2024 7:50	14.73	22.74	0.01	7.16	416.85	8.94	0.44	12.05
9/4/2024 7:40	14.73	22.77	0.01	7.13	419.03	8.94	0.47	12.07
9/4/2024 7:30	14.73	22.78	0.01	7.14	419.33	8.94	0.45	12.05
9/4/2024 7:20	14.74	22.86	0.01	7.13	419.63	8.93	0.46	12.02
9/4/2024 7:10	14.75	22.68	0.01	7.16	418.26	8.91	0.72	12.02
9/4/2024 7:00	14.77	22.82	0.01	7.13	420.29	8.91	0.48	12.02
9/4/2024 6:50	14.78	22.73	0.01	7.12	420.88	8.89	0.45	12.02
9/4/2024 6:40	14.8	22.93	0.01	7.11	420.87	8.88	0.46	12.02
9/4/2024 6:30	14.81	22.71	0.01	7.13	420.46	8.89	0.47	12.02
9/4/2024 6:20	14.83	22.87	0.01	7.12	420.87	8.88	0.48	12.02
9/4/2024 6:10	14.84	22.67	0.01	7.15	419.49	8.86	0.47	12.05
9/4/2024 6:00	14.85	22.94	0.01	7.13	420.47	8.89	0.46	12.05
9/4/2024 5:50	14.86	22.87	0.01	7.14	419.67	8.87	0.46	12.05
9/4/2024 5:40	14.88	22.92	0.01	7.13	420.14	8.87	0.44	12.05
9/4/2024 5:30	14.89	22.67	0.01	7.12	420.36	8.88	0.46	12.02
9/4/2024 5:20	14.9	22.99	0.01	7.11	420.67	8.88	0.47	11.95
9/4/2024 5:10	14.91	22.9	0.01	7.15	418.66	8.87	0.46	11.95
9/4/2024 5:00	14.92	23.04	0.01	7.11	420.46	8.86	0.46	12.05
9/4/2024 4:50	14.93	22.95	0.01	7.12	420.21	8.85	0.46	11.95
9/4/2024 4:40	14.94	23.06	0.01	7.11	420.44	8.84	0.45	11.95
9/4/2024 4:30	14.95	22.81	0.01	7.11	420.83	8.86	0.48	12.05
9/4/2024 4:20	14.96	22.99	0.01	7.13	418.6	8.85	0.47	12.05
9/4/2024 4:10	14.98	22.61	0.01	7.14	418.34	8.86	0.47	11.97
9/4/2024 4:00	14.99	22.99	0.01	7.14	418.21	8.84	0.47	11.95
9/4/2024 3:50	15.01	22.99	0.01	7.12	419.41	8.84	0.45	11.95

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/4/2024 3:40	15.02	23.09	0.01	7.14	417.99	8.83	0.49	11.95
9/4/2024 3:30	15.04	23	0.01	7.11	419.57	8.83	0.46	12.09
9/4/2024 3:20	15.06	23.08	0.01	7.12	418.43	8.83	0.48	12.09
9/4/2024 3:10	15.07	23.01	0.01	7.11	419.77	8.81	0.47	12.09
9/4/2024 3:00	15.09	23.1	0.01	7.13	417.99	8.81	0.48	12.09
9/4/2024 2:50	15.11	22.99	0.01	7.15	417.18	8.83	0.49	12.02
9/4/2024 2:40	15.13	23.1	0.01	7.12	418.28	8.83	0.5	12.09
9/4/2024 2:30	15.14	22.73	0.01	7.12	418.47	8.8	0.49	12.12
9/4/2024 2:20	15.16	23.09	0.01	7.12	418.01	8.8	0.49	12.02
9/4/2024 2:10	15.18	22.94	0.01	7.12	418.11	8.8	0.5	12.12
9/4/2024 2:00	15.2	23.15	0.01	7.12	417.92	8.8	0.48	12.05
9/4/2024 1:50	15.22	22.59	0.01	7.11	418.47	8.78	0.49	12.14
9/4/2024 1:40	15.25	23.21	0.01	7.12	417.43	8.81	0.49	12.07
9/4/2024 1:30	15.27	23	0.01	7.12	417.87	8.78	0.48	12.14
9/4/2024 1:20	15.29	23.16	0.01	7.12	417.3	8.77	0.5	12.14
9/4/2024 1:10	15.31	22.98	0.01	7.11	417.51	8.78	0.47	12.17
9/4/2024 1:00	15.33	23.19	0.01	7.12	416.16	8.78	0.48	12.17
9/4/2024 0:50	15.35	23.12	0.01	7.16	414.14	8.76	0.47	12.17
9/4/2024 0:40	15.37	23.13	0.01	7.13	415.15	8.76	0.49	12.17
9/4/2024 0:30	15.38	22.65	0.01	7.15	414.35	8.75	0.5	12.19
9/4/2024 0:20	15.4	23.22	0.01	7.13	416.32	8.76	0.77	12.09
9/4/2024 0:10	15.42	23.13	0.01	7.12	417.32	8.75	0.51	12.09
9/4/2024 0:00	15.44	23.25	0.01	7.12	415.94	8.74	0.5	12.09
9/3/2024 23:50	15.46	23.03	0.01	7.17	413.44	8.75	0.5	12.09
9/3/2024 23:40	15.48	23.23	0.01	7.13	414.94	8.76	0.52	12.19
9/3/2024 23:30	15.49	23.06	0.01	7.17	413.27	8.72	0.51	12.19
9/3/2024 23:20	15.51	23.29	0.01	7.13	414.98	8.72	0.5	12.12
9/3/2024 23:10	15.53	23.22	0.01	7.13	414.98	8.71	0.53	12.21
9/3/2024 23:00	15.56	23.31	0.01	7.11	415.43	8.72	0.51	12.12
9/3/2024 22:50	15.58	23.22	0.01	7.12	414.65	8.71	0.52	12.12
9/3/2024 22:40	15.6	23.33	0.01	7.12	414.61	8.72	0.52	12.12
9/3/2024 22:30	15.62	22.92	0.01	7.12	414.39	8.7	0.5	12.21
9/3/2024 22:20	15.64	23.33	0.01	7.11	414.32	8.71	0.53	12.21
9/3/2024 22:10	15.66	23.11	0.01	7.12	414.76	8.7	0.52	12.21
9/3/2024 22:00	15.68	23.32	0.01	7.11	414.27	8.69	0.5	12.24
9/3/2024 21:50	15.71	23.21	0.01	7.12	413.64	8.67	0.5	12.24
9/3/2024 21:40	15.73	23.34	0.01	7.12	412.73	8.68	0.51	12.24
9/3/2024 21:30	15.75	22.75	0.01	7.15	411.18	8.67	0.5	12.24
9/3/2024 21:20	15.77	23.3	0.01	7.12	412.58	8.66	0.55	12.24
9/3/2024 21:10	15.79	23.19	0.01	7.15	410.82	8.66	0.5	12.24
9/3/2024 21:00	15.82	23.22	0.01	7.13	411.2	8.64	0.51	12.24
9/3/2024 20:50	15.84	23.16	0.01	7.13	410.85	8.65	0.53	12.24
9/3/2024 20:40	15.86	23.27	0.01	7.12	410.64	8.64	0.54	12.17
9/3/2024 20:30	15.88	23.16	0.01	7.13	410.31	8.66	0.55	12.26
9/3/2024 20:20	15.9	23.16	0.01	7.12	410.47	8.64	0.51	12.24
9/3/2024 20:10	15.92	22.95	0.01	7.15	409.01	8.63	0.52	12.17
9/3/2024 20:00	15.94	23.2	0.01	7.14	409.5	8.63	0.54	12.17

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/3/2024 19:50	15.96	23.11	0.01	7.16	408.21	8.64	0.52	12.24
9/3/2024 19:40	15.98	23.13	0.01	7.14	408.18	8.64	0.54	12.29
9/3/2024 19:30	16	23.06	0.01	7.15	407.4	8.66	0.53	12.31
9/3/2024 19:20	16.02	23.12	0.01	7.14	408.14	8.65	0.53	12.29
9/3/2024 19:10	16.04	22.94	0.01	7.16	407.1	8.65	0.54	12.29
9/3/2024 19:00	16.06	23.12	0.01	7.16	407.13	8.64	0.52	12.31
9/3/2024 18:50	16.08	23.04	0.01	7.16	407.12	8.65	0.53	12.36
9/3/2024 18:40	16.1	23.09	0.01	7.16	406.25	8.65	0.54	12.38
9/3/2024 18:30	16.12	22.99	0.01	7.17	405.61	8.67	0.55	12.43
9/3/2024 18:20	16.13	22.98	0.01	7.17	405.27	8.67	0.55	12.45
9/3/2024 18:10	16.15	22.81	0.01	7.18	405.12	8.68	0.53	12.45
9/3/2024 18:00	16.16	23.04	0.01	7.19	404.07	8.69	0.51	12.5
9/3/2024 17:50	16.17	22.87	0.01	7.19	404.53	8.69	0.53	12.5
9/3/2024 17:40	16.18	22.99	0.01	7.21	402.96	8.7	0.62	12.48
9/3/2024 17:30	16.18	22.76	0.01	7.2	403.96	8.7	0.51	12.6
9/3/2024 17:20	16.18	22.94	0.01	7.22	402.09	8.72	0.55	12.6
9/3/2024 17:10	16.19	22.57	0.01	7.22	402.2	8.76	0.52	12.65
9/3/2024 17:00	16.19	22.97	0.01	7.23	401.15	8.77	0.75	12.62
9/3/2024 16:50	16.2	22.65	0.01	7.23	401.34	8.77	0.53	12.67
9/3/2024 16:40	16.21	22.93	0.01	7.24	400.08	8.79	0.53	12.74
9/3/2024 16:30	16.22	22.74	0.01	7.24	399.92	8.8	0.54	12.98
9/3/2024 16:20	16.23	22.89	0.01	7.24	399.72	8.81	0.55	12.69
9/3/2024 16:10	16.22	22.26	0.01	7.24	399.62	8.82	0.55	13.2
9/3/2024 16:00	16.21	22.8	0.01	7.26	398.31	8.83	0.54	13.51
9/3/2024 15:50	16.18	22.7	0.01	7.25	399.6	8.88	0.55	13.48
9/3/2024 15:40	16.16	22.76	0.01	7.27	398.1	8.88	0.55	13.51
9/3/2024 15:30	16.13	22.33	0.01	7.27	398.6	8.9	0.53	13.29
9/3/2024 15:20	16.12	22.76	0.01	7.27	397.54	8.89	0.52	13.53
9/3/2024 15:10	16.1	22.62	0.01	7.28	397.79	8.9	0.54	13.39
9/3/2024 15:00	16.09	22.75	0.01	7.25	398.83	8.89	0.52	13.53
9/3/2024 14:50	16.08	22.71	0.01	7.25	399.43	8.9	0.53	13.27
9/3/2024 14:40	16.07	22.78	0.01	7.25	398.27	8.89	0.55	13.46
9/3/2024 14:30	16.08	22.72	0.01	7.25	398.62	8.89	0.54	13.53
9/3/2024 14:20	16.08	22.73	0.01	7.26	397.87	8.93	0.53	13.53
9/3/2024 14:10	16.07	22.54	0.01	7.28	397.02	8.94	0.53	13.53
9/3/2024 14:00	16.06	22.71	0.01	7.28	396.73	8.95	0.54	13.53
9/3/2024 13:50	16.02	22.56	0.01	7.27	398.1	8.95	0.51	13.46
9/3/2024 13:40	16.01	22.73	0.01	7.27	397.71	8.93	0.52	13.39
9/3/2024 13:30	16	22.74	0.01	7.26	398.5	8.95	0.5	13.39
9/3/2024 13:20	15.96	22.71	0.01	7.25	399.36	8.92	0.5	13.46
9/3/2024 13:10	15.93	22.54	0.01	7.25	400.38	8.92	0.51	13.41
9/3/2024 13:00	15.92	22.74	0.01	7.24	400.39	8.89	0.54	13.56
9/3/2024 12:50	15.92	22.67	0.01	7.24	400.36	8.9	0.59	13.15
9/3/2024 12:40	15.93	22.79	0.01	7.24	399.26	8.89	0.78	13.05
9/3/2024 12:30	15.93	22.55	0.01	7.25	398.7	8.92	2.11	12.88
9/3/2024 12:20	15.94	22.73	0.01	7.26	397.43	8.95	0.61	13
9/3/2024 12:10	15.94	22.66	0.01	7.29	396.63	8.98	0.51	13.53

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/3/2024 12:00	15.92	22.73	0.01	7.27	396.7	8.95	0.52	13.51
9/3/2024 11:50	15.9	22.56	0.01	7.26	398.23	8.98	0.52	13.44
9/3/2024 11:40	15.86	22.78	0.01	7.24	399.87	8.98	0.53	13.34
9/3/2024 11:30	15.85	22.78	0.01	7.27	398.58	8.97	0.53	13.17
9/3/2024 11:20	15.82	22.83	0.01	7.24	399.87	8.94	0.52	13.22
9/3/2024 11:10	15.8	22.47	0.01	7.26	399.49	8.93	1.23	12.74
9/3/2024 11:00	15.8	22.84	0.01	7.23	400.53	8.95	2.2	12.81
9/3/2024 10:50	15.8	22.81	0.01	7.28	398.88	8.96	0.5	12.98
9/3/2024 10:40	15.77	22.83	0.01	7.25	400.53	8.97	0.51	12.98
9/3/2024 10:30	15.73	22.72	0.01	7.23	402.45	8.95	0.51	12.88
9/3/2024 10:20	15.7	22.97	0.01	7.22	403.84	8.94	0.51	12.81
9/3/2024 10:10	15.68	23.03	0.01	7.23	404.42	8.92	0.51	12.79
9/3/2024 10:00	15.66	23.05	0.01	7.19	407.1	8.89	0.52	12.65
9/3/2024 9:50	15.65	23.07	0.01	7.2	407.17	8.84	0.55	12.41
9/3/2024 9:40	15.65	23.13	0.01	7.2	407.67	8.86	0.52	12.38
9/3/2024 9:30	15.64	23.25	0.01	7.18	408.69	8.85	0.5	12.24
9/3/2024 9:20	15.65	23.19	0.01	7.19	408.37	8.83	0.53	12.33
9/3/2024 9:10	15.65	22.98	0.01	7.19	408.6	8.84	0.49	12.5
9/3/2024 9:00	15.65	23.34	0.01	7.18	409.09	8.83	0.52	12.45
9/3/2024 8:50	15.65	23.16	0.01	7.19	408.83	8.86	0.53	12.5
9/3/2024 8:40	15.64	23.33	0.01	7.19	409.64	8.84	0.51	12.45
9/3/2024 8:30	15.62	23.26	0.01	7.17	411.29	8.8	0.52	12.36
9/3/2024 8:20	15.61	23.51	0.01	7.17	411.56	8.8	0.51	12.26
9/3/2024 8:10	15.61	23.29	0.01	7.14	413.37	8.76	0.49	12.17
9/3/2024 8:00	15.61	23.6	0.01	7.14	413.38	8.74	0.52	12.12
9/3/2024 7:50	15.61	23.59	0.01	7.13	414.74	8.75	0.51	12.12
9/3/2024 7:40	15.61	23.71	0.01	7.14	414.08	8.73	0.5	12.09
9/3/2024 7:30	15.61	23.53	0.01	7.12	415.7	8.72	0.5	12.07
9/3/2024 7:20	15.62	23.78	0.01	7.12	415.45	8.7	0.54	12.07
9/3/2024 7:10	15.62	23.48	0.01	7.11	416.25	8.7	0.5	12.07
9/3/2024 7:00	15.62	23.79	0.01	7.1	416.37	8.69	0.51	12.07
9/3/2024 6:50	15.63	23.53	0.01	7.12	415.61	8.7	0.5	12.05
9/3/2024 6:40	15.63	23.73	0.01	7.11	416.45	8.68	0.51	11.97
9/3/2024 6:30	15.64	23.75	0.01	7.12	416.35	8.7	0.49	12.07
9/3/2024 6:20	15.65	23.81	0.01	7.11	416.85	8.68	0.51	11.97
9/3/2024 6:10	15.65	23.5	0.01	7.14	415.41	8.69	0.5	11.97
9/3/2024 6:00	15.66	23.69	0.01	7.1	417.8	8.68	0.5	12.07
9/3/2024 5:50	15.67	23.39	0.01	7.11	417.85	8.68	0.53	12.07
9/3/2024 5:40	15.67	23.65	0.01	7.11	417.8	8.67	6.69	12.07
9/3/2024 5:30	15.68	23.55	0.01	7.09	419.14	8.7	0.51	12.09
9/3/2024 5:20	15.69	23.75	0.01	7.1	418.35	8.66	0.52	12.09
9/3/2024 5:10	15.69	23.57	0.01	7.1	418.88	8.67	1.71	12.09
9/3/2024 5:00	15.7	23.57	0.01	7.11	417.68	8.68	0.51	12.09
9/3/2024 4:50	15.7	23.29	0.01	7.11	418.31	8.67	0.49	12.09
9/3/2024 4:40	15.71	23.63	0.01	7.11	418	8.66	4.33	12
9/3/2024 4:30	15.71	23.55	0.01	7.09	419.1	8.63	0.5	12.02
9/3/2024 4:20	15.72	23.65	0.01	7.09	418.69	8.66	2.26	12.12

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/3/2024 4:10	15.73	23.24	0.01	7.09	419.16	8.67	1.27	12.05
9/3/2024 4:00	15.73	23.72	0.01	7.11	419.83	8.67	1.9	12.02
9/3/2024 3:50	15.74	23.53	0.01	7.09	420.04	8.66	0.65	12.12
9/3/2024 3:50	15.74	23.53	0.01	7.09	420.04	8.66	0.65	12.12
9/3/2024 3:40	15.75	23.77	0.01	7.1	419.29	8.64	0.55	12.02
9/3/2024 3:30	15.75	23.46	0.01	7.1	420.08	8.66	0.51	12.05
9/3/2024 3:20	15.76	23.69	0.01	7.11	418.89	8.64	0.58	12.05
9/3/2024 3:10	15.77	23.25	0.01	7.14	417.88	8.63	0.51	12.17
9/3/2024 3:00	15.78	23.62	0.01	7.11	418.52	8.64	3.48	12.17
9/3/2024 2:50	15.78	22.98	0.01	7.11	419.39	8.64	0.51	12.17
9/3/2024 2:40	15.79	23.6	0.01	7.12	419.02	8.65	3.35	12.17
9/3/2024 2:30	15.8	23.49	0.01	7.1	419.96	8.64	1.97	12.09
9/3/2024 2:20	15.81	23.64	0.01	7.09	420.46	8.64	0.51	12.17
9/3/2024 2:10	15.81	23.5	0.01	7.11	419.9	8.62	4.37	12.17
9/3/2024 2:00	15.82	23.58	0.01	7.1	420.22	8.61	0.58	12.19
9/3/2024 1:50	15.83	23.39	0.01	7.09	420.39	8.63	0.94	12.19
9/3/2024 1:40	15.84	23.67	0.01	7.1	420.01	8.6	0.51	12.19
9/3/2024 1:30	15.85	23.39	0.01	7.08	421.02	8.62	1.19	12.19
9/3/2024 1:20	15.86	23.57	0.01	7.1	420.26	8.64	0.52	12.09
9/3/2024 1:10	15.87	23.52	0.01	7.11	419.96	8.62	6.48	12.19
9/3/2024 1:00	15.88	23.61	0.01	7.1	420.82	8.61	0.53	12.09
9/3/2024 0:50	15.89	23.54	0.01	7.12	419.63	8.59	0.56	12.09
9/3/2024 0:40	15.9	23.64	0.01	7.1	420.46	8.62	0.54	12.09
9/3/2024 0:30	15.91	23.41	0.01	7.15	418.2	8.6	0.55	12.21
9/3/2024 0:20	15.92	23.66	0.01	7.11	419.85	8.6	0.52	12.21
9/3/2024 0:10	15.93	23.47	0.01	7.1	420.33	8.6	0.57	12.21
9/3/2024 0:00	15.94	23.63	0.01	7.09	420.3	8.58	0.54	12.21
9/2/2024 23:50	15.95	23.56	0.01	7.1	420.29	8.6	0.69	12.12
9/2/2024 23:40	15.96	23.62	0.01	7.1	419.45	8.6	0.54	12.12
9/2/2024 23:30	15.97	23.41	0.01	7.1	419.52	8.59	0.75	12.14
9/2/2024 23:20	15.98	23.64	0.01	7.1	419.28	8.57	0.54	12.14
9/2/2024 23:10	15.99	23.42	0.01	7.09	420.08	8.57	0.62	12.24
9/2/2024 23:00	16.01	23.6	0.01	7.08	419.27	8.56	0.53	12.21
9/2/2024 22:50	16.02	23.38	0.01	7.08	419.66	8.58	239.61	12.26
9/2/2024 22:40	16.03	23.5	0.01	7.11	417.42	8.58	0.56	12.24
9/2/2024 22:30	16.05	23.44	0.01	7.09	418.42	8.56	28.84	12.24
9/2/2024 22:20	16.06	23.49	0.01	7.11	416.64	8.56	0.63	12.24
9/2/2024 22:10	16.08	23.04	0.01	7.09	417.73	8.55	1.21	12.14
9/2/2024 22:00	16.09	23.48	0.01	7.12	415.27	8.55	0.57	12.14
9/2/2024 21:50	16.11	23.39	0.01	7.12	418.48	8.55	139.04	12.14
9/2/2024 21:40	16.12	23.44	0.01	7.11	418.8	8.54	0.7	12.24
9/2/2024 21:30	16.14	23.28	0.01	7.12	418.15	8.53	26.56	12.17
9/2/2024 21:20	16.15	23.52	0.01	7.1	418.79	8.54	0.63	12.17
9/2/2024 21:10	16.17	23.26	0.01	7.13	416.93	8.54	0.85	12.24
9/2/2024 21:00	16.19	23.36	0.01	7.11	417.78	8.53	0.56	12.24
9/2/2024 20:50	16.2	23.37	0.01	7.11	418.09	8.52	0.53	12.26
9/2/2024 20:40	16.22	23.39	0.01	7.12	416.75	8.51	0.55	12.29

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/2/2024 20:30	16.24	23.31	0.01	7.11	417.15	8.49	0.55	12.26
9/2/2024 20:20	16.27	23.4	0.01	7.12	416.08	8.49	0.56	12.19
9/2/2024 20:10	16.29	23.18	0.01	7.11	416.04	8.5	0.54	12.26
9/2/2024 20:00	16.32	23.4	0.01	7.13	414.68	8.5	0.55	12.19
9/2/2024 19:50	16.34	23.17	0.01	7.15	412.9	8.51	2.33	12.17
9/2/2024 19:40	16.36	23.32	0.01	7.13	413.12	8.51	0.59	12.29
9/2/2024 19:30	16.39	23.23	0.01	7.12	413.99	8.52	4.17	12.31
9/2/2024 19:20	16.41	23.26	0.01	7.14	412.12	8.52	0.57	12.24
9/2/2024 19:10	16.43	23.16	0.01	7.14	412.18	8.52	2.79	12.36
9/2/2024 19:00	16.46	23.25	0.01	7.14	412.08	8.53	0.75	12.33
9/2/2024 18:50	16.48	22.96	0.01	7.14	411.54	8.52	7.8	12.43
9/2/2024 18:40	16.52	23.2	0.01	7.16	410.25	8.53	0.58	12.41
9/2/2024 18:30	16.54	23.01	0.01	7.16	410.36	8.54	0.58	12.43
9/2/2024 18:20	16.57	23.1	0.01	7.18	408.54	8.55	0.58	12.57
9/2/2024 18:10	16.6	22.96	0.01	7.17	408.83	8.57	66.99	12.65
9/2/2024 18:00	16.62	23.03	0.01	7.18	408.11	8.59	0.69	12.74
9/2/2024 17:50	16.63	22.79	0.01	7.15	409.34	8.58	0.56	12.84
9/2/2024 17:40	16.65	22.89	0.01	7.19	406.45	8.56	0.57	12.76
9/2/2024 17:30	16.66	22.88	0.01	7.18	406.61	8.57	0.56	12.67
9/2/2024 17:20	16.68	22.92	0.01	7.18	406.45	8.55	0.62	12.72
9/2/2024 17:10	16.7	22.85	0.01	7.18	406.24	8.58	0.65	12.72
9/2/2024 17:00	16.7	22.98	0.01	7.18	405.26	8.57	0.63	12.62
9/2/2024 16:50	16.72	22.78	0.01	7.21	403.24	8.56	0.78	12.62
9/2/2024 16:40	16.75	22.95	0.01	7.18	403.34	8.55	0.57	12.6
9/2/2024 16:30	16.8	22.87	0.01	7.19	402.62	8.57	0.61	12.57
9/2/2024 16:20	16.83	22.92	0.01	7.21	400.87	8.6	0.63	12.55
9/2/2024 16:10	16.88	22.49	0.01	7.22	399.19	8.6	1.03	13.27
9/2/2024 16:00	16.92	22.86	0.01	7.22	398.8	8.61	0.63	13.32
9/2/2024 15:50	16.93	22.57	0.01	7.21	398.48	8.64	9.1	13.03
9/2/2024 15:40	16.94	22.81	0.01	7.23	396.59	8.65	0.64	13.34
9/2/2024 15:30	16.94	22.65	0.01	7.22	396.95	8.67	14.28	13.34
9/2/2024 15:20	16.91	22.81	0.01	7.24	395.11	8.66	0.6	13.39
9/2/2024 15:10	16.91	22.74	0.01	7.23	394.96	8.68	0.59	13.15
9/2/2024 15:00	16.89	22.83	0.01	7.24	394.11	8.72	0.56	13.12
9/2/2024 14:50	16.91	22.62	0.01	7.24	394.15	8.71	0.58	13.39
9/2/2024 14:40	16.87	22.76	0.01	7.25	392.43	8.72	0.58	13.39
9/2/2024 14:30	16.87	22.72	0.01	7.25	392.17	8.72	0.61	13.36
9/2/2024 14:20	16.85	22.82	0.01	7.26	390.31	8.75	0.59	13.22
9/2/2024 14:10	16.85	22.33	0.01	7.28	388.3	8.77	0.57	13.32
9/2/2024 14:00	16.8	22.78	0.01	7.26	388.55	8.8	0.59	13.32
9/2/2024 13:50	16.78	22.66	0.01	7.29	386.02	8.8	0.56	13.32
9/2/2024 13:40	16.74	22.68	0.01	7.28	385.67	8.82	0.55	13.32
9/2/2024 13:30	16.69	22.55	0.01	7.28	384.38	8.83	0.58	13.34
9/2/2024 13:20	16.67	22.82	0.01	7.28	385.16	8.82	0.58	13.27
9/2/2024 13:10	16.62	22.65	0.01	7.27	384.61	8.84	0.6	13.36
9/2/2024 13:00	16.59	22.81	0.01	7.26	385.11	8.88	0.54	13.29
9/2/2024 12:50	16.6	22.66	0.01	7.31	382.53	8.87	0.56	13.41

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/2/2024 12:40	16.6	22.84	0.01	7.27	384.97	8.87	0.6	13.41
9/2/2024 12:30	16.58	22.67	0.01	7.27	384.67	8.88	0.57	13.44
9/2/2024 12:20	16.58	22.85	0.01	7.29	383.82	8.89	0.56	13.44
9/2/2024 12:10	16.55	22.81	0.01	7.26	386.08	8.9	0.59	13.32
9/2/2024 12:00	16.52	22.9	0.01	7.28	386.63	8.95	0.53	13.44
9/2/2024 11:50	16.49	22.51	0.01	7.27	387.98	8.94	8.4	13.44
9/2/2024 11:40	16.47	22.85	0.01	7.28	388.43	8.95	0.56	13.41
9/2/2024 11:30	16.42	22.72	0.01	7.28	388.66	8.94	0.55	13.34
9/2/2024 11:20	16.42	22.88	0.01	7.29	389.2	8.97	0.55	13.34
9/2/2024 11:10	16.36	22.74	0.01	7.27	390.96	8.95	0.54	13.44
9/2/2024 11:00	16.24	22.87	0.01	7.28	391.65	8.95	0.54	13.34
9/2/2024 10:50	16.13	22.88	0.01	7.26	394.34	8.96	0.53	13.34
9/2/2024 10:40	15.99	22.88	0.01	7.26	395.93	8.98	0.48	13.46
9/2/2024 10:30	15.86	22.81	0.01	7.23	399.84	8.97	0.5	13.46
9/2/2024 10:20	15.73	22.94	0.01	7.23	402.09	8.97	0.51	13.46
9/2/2024 10:10	15.6	22.77	0.01	7.22	405.24	8.93	0.51	13.46
9/2/2024 10:00	15.47	23.01	0.01	7.2	407.74	8.92	0.54	13.48
9/2/2024 9:50	15.4	22.82	0.01	7.17	409.2	8.9	0.55	13.48
9/2/2024 9:40	15.37	23.02	0.01	7.18	408.97	8.9	0.5	13.46
9/2/2024 9:30	15.35	22.95	0.01	7.19	408.83	8.91	0.54	13.12
9/2/2024 9:20	15.32	23.02	0.01	7.16	411.02	8.89	0.49	13.05
9/2/2024 9:10	15.29	22.95	0.01	7.15	411.63	8.89	0.53	12.86
9/2/2024 9:00	15.28	22.96	0.01	7.15	411.84	8.86	0.53	12.72
9/2/2024 8:50	15.25	22.99	0.01	7.13	413.85	8.83	0.49	12.62
9/2/2024 8:40	15.24	23.12	0.01	7.13	414.23	8.81	0.53	12.55
9/2/2024 8:30	15.23	22.57	0.01	7.13	415.25	8.82	0.47	12.48
9/2/2024 8:20	15.22	23.15	0.01	7.12	415.53	8.81	0.49	12.33
9/2/2024 8:10	15.22	22.96	0.01	7.11	416.84	8.8	0.47	12.33
9/2/2024 8:00	15.21	23.15	0.01	7.13	416.34	8.78	0.49	12.29
9/2/2024 7:50	15.21	23.08	0.01	7.11	417.94	8.76	0.5	12.21
9/2/2024 7:40	15.22	23.18	0.01	7.12	416.9	8.77	0.7	12.17
9/2/2024 7:30	15.23	22.86	0.01	7.1	418.37	8.77	0.47	12.14
9/2/2024 7:20	15.24	23.22	0.01	7.12	416.89	8.75	0.5	12.12
9/2/2024 7:10	15.25	22.95	0.01	7.12	417.94	8.72	0.5	12.09
9/2/2024 7:00	15.26	23.25	0.01	7.11	418.64	8.73	0.49	11.97
9/2/2024 6:50	15.27	23.19	0.01	7.1	420.1	8.72	0.47	12.05
9/2/2024 6:40	15.29	23.28	0.01	7.1	419.12	8.7	0.5	12.07
9/2/2024 6:30	15.3	22.86	0.01	7.13	417.76	8.71	0.46	12.07
9/2/2024 6:20	15.33	23.3	0.01	7.1	419.26	8.71	0.47	12.07
9/2/2024 6:10	15.34	23.1	0.01	7.12	418.37	8.7	0.48	12.07
9/2/2024 6:00	15.37	23.32	0.01	7.09	419.19	8.68	0.48	12.07
9/2/2024 5:50	15.38	23.14	0.01	7.1	418.82	8.69	0.48	11.97
9/2/2024 5:40	15.41	23.34	0.01	7.1	418.5	8.68	0.5	12.07
9/2/2024 5:30	15.43	23.26	0.01	7.1	418.69	8.68	0.5	12.07
9/2/2024 5:20	15.45	23.39	0.01	7.1	418.52	8.67	0.5	11.97
9/2/2024 5:10	15.47	23.21	0.01	7.12	417.4	8.67	0.49	12.05
9/2/2024 5:00	15.49	23.4	0.01	7.09	418.65	8.66	0.52	12.09

WLNG Upstream Raw Sonde Data 2024-09-02 to 2024-09-08

9/2/2024 4:50	15.5	23.31	0.01	7.12	417.44	8.66	0.49	12.09
9/2/2024 4:40	15.52	23.46	0.01	7.1	417.88	8.65	0.48	12
9/2/2024 4:30	15.53	23.34	0.01	7.13	415.99	8.66	0.5	12
9/2/2024 4:20	15.55	23.44	0.01	7.11	417.27	8.65	0.52	12
9/2/2024 4:10	15.57	22.82	0.01	7.12	416.23	8.65	0.53	12.02
9/2/2024 4:00	15.59	23.49	0.01	7.09	417.48	8.63	0.51	12.12
9/2/2024 3:50	15.61	23.4	0.01	7.1	417.05	8.62	0.5	12.12
9/2/2024 3:40	15.63	23.46	0.01	7.1	416.49	8.63	0.5	12.12
9/2/2024 3:30	15.64	23.46	0.01	7.1	416.73	8.62	0.48	12.12
9/2/2024 3:20	15.66	23.52	0.01	7.1	416.32	8.61	0.5	12.14
9/2/2024 3:10	15.68	23.37	0.01	7.11	415.86	8.6	0.51	12.07
9/2/2024 3:00	15.7	23.57	0.01	7.09	416.51	8.62	0.53	12.05
9/2/2024 2:50	15.71	23.54	0.01	7.1	416.35	8.61	0.53	12.05
9/2/2024 2:40	15.73	23.55	0.01	7.1	416.04	8.6	0.52	12.17
9/2/2024 2:30	15.74	23.36	0.01	7.11	415.8	8.59	0.52	12.17
9/2/2024 2:20	15.76	23.6	0.01	7.1	416.27	8.59	0.51	12.17
9/2/2024 2:10	15.78	23.36	0.01	7.1	416.53	8.6	0.51	12.17
9/2/2024 2:00	15.79	23.63	0.01	7.09	416.32	8.59	0.55	12.17
9/2/2024 1:50	15.81	23.18	0.01	7.09	416.28	8.59	0.51	12.17
9/2/2024 1:40	15.82	23.62	0.01	7.08	416.54	8.59	0.5	12.17
9/2/2024 1:30	15.83	23.4	0.01	7.08	416.63	8.58	0.51	12.09
9/2/2024 1:20	15.85	23.62	0.01	7.09	416.19	8.58	0.53	12.17
9/2/2024 1:10	15.86	23.57	0.01	7.09	416.48	8.57	0.54	12.19
9/2/2024 1:00	15.88	23.6	0.01	7.08	416.94	8.57	0.52	12.09
9/2/2024 0:50	15.9	23.55	0.01	7.09	416.73	8.58	0.54	12.19
9/2/2024 0:40	15.91	23.68	0.01	7.09	416.68	8.56	0.53	12.19
9/2/2024 0:30	15.93	23.27	0.01	7.09	416.97	8.56	0.51	12.17
9/2/2024 0:20	15.95	23.56	0.01	7.08	417.39	8.55	0.5	12.09
9/2/2024 0:10	15.96	23.39	0.01	7.11	415.95	8.54	0.55	12.09
9/2/2024 0:00	15.98	23.64	0.01	7.08	416.95	8.53	0.59	12.12

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

EGP-STU-004 (WLNG DS):

Received	Temperature C	Specific Conductivity $\mu\text{S}/\text{cm}$	Salinity PSU	pH	ORP mV	Dissolved Oxygen Concentration mg/L	Turbidity NTU
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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLNG Downstream Sonde 2024-09-02 to 2024-09-08

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WLING Downstream Sonde 2024-09-02 to 2024-09-08

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9/6/2024 7:40	15.28	0.07	0	8.02	400.2	9.17	2.61
9/6/2024 7:30	15.22	217.02	0.1	7.79	417.91	8.09	10.57
9/6/2024 7:20	15.22	216.67	0.1	7.79	418.12	8.08	9.1
9/6/2024 7:10	15.22	216.32	0.1	7.79	418.56	8.09	8.76
9/6/2024 7:00	15.23	215.72	0.1	7.79	419.17	8.09	8.32
9/6/2024 6:50	15.23	214.88	0.1	7.79	419.82	8.07	8.05
9/6/2024 6:40	15.23	214.18	0.1	7.79	420.61	8.06	10.47
9/6/2024 6:30	15.23	213.26	0.1	7.79	422.1	8.04	8.37
9/6/2024 6:20	15.24	212.11	0.1	7.79	423.2	8.03	9.58
9/6/2024 6:10	15.26	211.23	0.1	7.79	424.16	8.03	7.97
9/6/2024 6:00	15.27	212.58	0.1	7.79	424.96	8.03	7.97
9/6/2024 5:50	15.28	215.38	0.1	7.8	425.72	8.06	10.56
9/6/2024 5:40	15.3	218.14	0.1	7.8	425.74	8.07	9.56
9/6/2024 5:30	15.35	217.14	0.1	7.83	423.08	8.05	9.56
9/6/2024 5:20	15.56	205.53	0.1	7.84	423.38	8.09	9.41
9/6/2024 5:10	15.73	199.51	0.09	7.87	422.39	8.33	8.58
9/6/2024 5:00	16.03	175.03	0.08	7.9	421.04	8.49	7
9/6/2024 4:50	16.07	166.73	0.08	7.9	420.67	8.51	7.7
9/6/2024 4:40	16.05	170.07	0.08	7.9	421.07	8.49	7.1
9/6/2024 4:30	16.07	170.97	0.08	7.9	420.53	8.48	6.99
9/6/2024 4:20	16.08	173.26	0.08	7.89	420.72	8.47	7.01
9/6/2024 4:10	16.09	173.65	0.08	7.89	420.74	8.47	9.81
9/6/2024 4:00	16.09	170.29	0.08	7.89	420.63	8.46	6.96
9/6/2024 3:50	16.08	171.54	0.08	7.89	420.74	8.46	6.92
9/6/2024 3:40	16.09	171.52	0.08	7.88	420.59	8.47	6.9
9/6/2024 3:30	16.07	171.86	0.08	7.88	420.65	8.48	7.56
9/6/2024 3:20	16.07	168.71	0.08	7.87	420.54	8.48	7.81
9/6/2024 3:10	16.06	171.83	0.08	7.87	420.16	8.47	7.17
9/6/2024 3:10	16.06	171.83	0.08	7.87	420.16	8.47	7.17
9/6/2024 3:00	16.02	173.08	0.08	7.86	420.03	8.48	8.55
9/6/2024 2:50	15.97	172.31	0.08	7.86	419.54	8.51	8.44

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

9/6/2024 2:40	15.84	176.02	0.08	7.84	419.61	8.51	10.38
9/6/2024 2:30	15.67	186.87	0.09	7.84	420.8	8.46	7.78
9/6/2024 2:20	15.41	218.16	0.1	7.76	424.77	8.08	7.89
9/6/2024 2:10	15.39	220.31	0.1	7.76	424.89	8.05	7.81
9/6/2024 2:00	15.4	219.76	0.1	7.76	424.76	8.05	8.25
9/6/2024 1:50	15.4	219.55	0.1	7.76	424.77	8.06	9.7
9/6/2024 1:40	15.4	219.2	0.1	7.76	424.76	8.05	7.68
9/6/2024 1:30	15.41	218.69	0.1	7.76	424.71	8.06	8.35
9/6/2024 1:20	15.41	218.5	0.1	7.76	424.74	8.04	7.79
9/6/2024 1:10	15.42	218.2	0.1	7.76	424.79	8.07	8.63
9/6/2024 1:00	15.43	217.6	0.1	7.76	424.64	8.05	8.56
9/6/2024 0:50	15.43	217.22	0.1	7.76	424.68	8.07	8.67
9/6/2024 0:40	15.44	216.88	0.1	7.76	424.71	8.05	7.94
9/6/2024 0:30	15.45	216.59	0.1	7.75	424.74	8.04	8.7
9/6/2024 0:20	15.46	216.15	0.1	7.75	424.67	8.05	7.92
9/6/2024 0:10	15.46	215.8	0.1	7.75	424.5	8.05	8.78
9/6/2024 0:00	15.47	215.28	0.1	7.75	424.49	8.06	8.08
9/5/2024 23:50	15.48	214.66	0.1	7.75	424.45	8.07	8.49
9/5/2024 23:40	15.49	214.54	0.1	7.75	424.33	8.07	8.31
9/5/2024 23:30	15.5	214.45	0.1	7.75	424.3	8.07	9.51
9/5/2024 23:20	15.51	213.68	0.1	7.75	424.44	8.07	9.2
9/5/2024 23:10	15.52	213.92	0.1	7.75	424.3	8.09	10.04
9/5/2024 23:00	15.53	213.99	0.1	7.75	423.98	8.08	8.02
9/5/2024 22:50	15.53	213.82	0.1	7.75	423.7	8.08	7.69
9/5/2024 22:40	15.55	213.53	0.1	7.75	423.32	8.07	7.86
9/5/2024 22:30	15.56	213.21	0.1	7.75	422.94	8.08	8.34
9/5/2024 22:20	15.57	212.39	0.1	7.75	422.46	8.09	7.68
9/5/2024 22:10	15.59	211.12	0.1	7.75	421.91	8.08	8.1
9/5/2024 22:00	15.6	209.39	0.1	7.75	421.26	8.08	7.44
9/5/2024 21:50	15.61	209.73	0.1	7.75	421.08	8.07	7.99
9/5/2024 21:40	15.62	211.91	0.1	7.75	420.93	8.04	8.42
9/5/2024 21:30	15.63	213.81	0.1	7.76	420.51	8.02	9.47
9/5/2024 21:20	15.68	214.13	0.1	7.77	419.92	7.96	8.43
9/5/2024 21:10	15.83	211.07	0.1	7.78	418.75	7.94	9.31
9/5/2024 21:00	16.07	201.94	0.1	7.79	417.88	8.04	8.08
9/5/2024 20:50	16.22	199.41	0.09	7.81	416.35	8.19	7.72
9/5/2024 20:40	16.35	188.45	0.09	7.8	416.17	8.29	7.54
9/5/2024 20:30	16	201.46	0.1	7.78	417.27	8.26	7.55
9/5/2024 20:20	15.99	201.44	0.1	7.78	417.38	8.26	7.21
9/5/2024 20:10	15.97	199.99	0.1	7.77	418	8.28	7.52
9/5/2024 20:00	15.99	199.74	0.1	7.78	418.36	8.26	7.67
9/5/2024 19:50	16.09	195.82	0.09	7.79	418.55	8.33	7.04
9/5/2024 19:40	16.21	197.67	0.09	7.82	417.47	8.41	6.87
9/5/2024 19:30	16.14	184.71	0.09	7.83	416.45	8.35	6.83
9/5/2024 19:20	15.72	211.75	0.1	7.75	420.19	8.13	6.7
9/5/2024 19:10	15.72	211.95	0.1	7.75	419.82	8.11	7.06
9/5/2024 19:00	15.73	211.88	0.1	7.75	419.27	8.11	7.14

W LNG Downstream Sonde 2024-09-02 to 2024-09-08

9/5/2024 18:50	15.75	210.86	0.1	7.76	418.67	8.13	6.97
9/5/2024 18:40	15.76	210.47	0.1	7.76	417.83	8.12	7.16
9/5/2024 18:30	15.78	209.87	0.1	7.77	417.16	8.13	7.04
9/5/2024 18:20	15.8	208.66	0.1	7.78	416.34	8.15	5.85
9/5/2024 18:10	15.84	207.23	0.1	7.78	415.62	8.14	5.94
9/5/2024 18:00	15.88	205.32	0.1	7.79	414.91	8.13	6.53
9/5/2024 17:50	15.92	206.44	0.1	7.79	414.56	8.11	6.6
9/5/2024 17:40	15.96	207.77	0.1	7.8	414.13	8.12	8.8
9/5/2024 17:30	16.03	206.62	0.1	7.81	413.63	8.12	7.24
9/5/2024 17:20	16.1	206.58	0.1	7.82	413.23	8.1	8.26
9/5/2024 17:10	16.2	206.88	0.1	7.84	412.39	8.09	6.94
9/5/2024 17:00	16.4	200	0.1	7.87	410.68	8.15	7.24
9/5/2024 16:50	16.64	189.13	0.09	7.9	408.71	8.14	7.66
9/5/2024 16:40	16.83	187.73	0.09	7.93	406.46	8.31	6.34
9/5/2024 16:30	17.1	168.91	0.08	7.97	403.7	8.54	5.52
9/5/2024 16:20	17.13	165.31	0.08	7.97	401.86	8.56	5.4
9/5/2024 16:10	17.12	163.57	0.08	7.97	399.73	8.57	5.63
9/5/2024 16:00	17.14	163.94	0.08	7.97	396.83	8.57	5.23
9/5/2024 15:50	17.12	165.9	0.08	7.96	392.96	8.57	5.7
9/5/2024 15:40	17.12	166.44	0.08	7.96	386.88	8.56	5.18
9/5/2024 15:30	17.11	166.17	0.08	7.95	380.07	8.58	5.52
9/5/2024 15:20	17.09	166.54	0.08	7.96	375.48	8.61	5.36
9/5/2024 15:10	17.09	166.73	0.08	7.96	375.74	8.64	5.12
9/5/2024 15:00	17	170.57	0.08	7.94	376.49	8.61	5.88
9/5/2024 14:50	16.85	170.31	0.08	7.92	377.3	8.6	5.89
9/5/2024 14:40	16.68	194.97	0.09	7.87	381.5	8.31	5.82
9/5/2024 14:30	16.52	213.19	0.1	7.81	388	8.16	6.76
9/5/2024 14:20	16.53	213.2	0.1	7.81	393.62	8.15	6.89
9/5/2024 14:10	16.53	212.89	0.1	7.81	399.68	8.18	7.18
9/5/2024 14:00	16.54	213.02	0.1	7.81	404.89	8.18	6.11
9/5/2024 13:50	16.54	213.06	0.1	7.81	406.04	8.2	6.27
9/5/2024 13:40	16.53	213.24	0.1	7.81	406.14	8.19	8.11
9/5/2024 13:30	16.53	213.17	0.1	7.81	406.1	8.18	6.61
9/5/2024 13:20	16.51	212.55	0.1	7.81	405.82	8.21	6.05
9/5/2024 13:10	16.5	211.25	0.1	7.8	405.5	8.19	6.3
9/5/2024 13:00	16.49	209.62	0.1	7.8	405.28	8.19	6.16
9/5/2024 12:50	16.45	207.83	0.1	7.8	405.13	8.18	6.09
9/5/2024 12:40	16.4	207.14	0.1	7.8	404.96	8.19	9.55
9/5/2024 12:30	16.36	207.13	0.1	7.81	404.79	8.23	6.08
9/5/2024 12:20	16.32	204.75	0.1	7.82	404.85	8.28	7.28
9/5/2024 12:10	16.29	203.64	0.1	7.83	404.95	8.33	7.02
9/5/2024 12:00	16.26	197.14	0.09	7.86	404.83	8.47	5.91
9/5/2024 11:50	16.25	178.74	0.08	7.9	403.7	8.66	6.22
9/5/2024 11:40	16.2	177.75	0.08	7.9	403.29	8.7	4.92
9/5/2024 11:30	16.14	177.12	0.08	7.9	403.1	8.69	4.88
9/5/2024 11:20	16.09	180.27	0.09	7.89	403.35	8.66	5.36
9/5/2024 11:10	16.02	180.56	0.09	7.89	402.59	8.71	6.3

W LNG Downstream Sonde 2024-09-02 to 2024-09-08

9/5/2024 11:00	15.94	177.02	0.08	7.89	401.41	8.75	6.11
9/5/2024 10:50	15.85	172.59	0.08	7.89	401.54	8.74	5.55
9/5/2024 10:40	15.77	187.67	0.09	7.86	403.23	8.52	5.53
9/5/2024 10:30	15.72	220.16	0.1	7.8	405.82	8.32	7.38
9/5/2024 10:20	15.66	220.12	0.1	7.8	405.76	8.32	6.24
9/5/2024 10:10	15.61	219.61	0.1	7.8	405.8	8.35	7.07
9/5/2024 10:00	15.56	219.89	0.1	7.79	405.7	8.33	6.31
9/5/2024 9:50	15.51	219.8	0.1	7.79	405.55	8.34	7.79
9/5/2024 9:40	15.45	219.98	0.1	7.79	405.65	8.33	6.31
9/5/2024 9:30	15.39	219.81	0.1	7.79	405.71	8.34	6.02
9/5/2024 9:20	15.33	219.81	0.1	7.78	406.17	8.34	6.9
9/5/2024 9:10	15.27	219.95	0.1	7.77	406.53	8.34	5.6
9/5/2024 9:00	15.24	220.64	0.11	7.78	406.35	8.34	6.99
9/5/2024 8:50	15.22	220.52	0.11	7.77	406.21	8.35	5.78
9/5/2024 8:40	15.21	220.2	0.1	7.78	405.94	8.35	8.49
9/5/2024 8:30	15.2	219.02	0.1	7.78	405.81	8.35	4.99
9/5/2024 8:20	15.19	217.68	0.1	7.78	405.54	8.35	6.31
9/5/2024 8:10	15.19	217.28	0.1	7.79	405.15	8.36	6.03
9/5/2024 8:00	15.19	216.26	0.1	7.79	404.69	8.35	7.04
9/5/2024 7:50	15.19	215.44	0.1	7.8	404.25	8.35	6.04
9/5/2024 7:40	15.18	214.82	0.1	7.8	403.86	8.35	5.92
9/5/2024 7:30	15.18	214.04	0.1	7.8	403.55	8.36	12.62
9/5/2024 7:20	15.19	212.48	0.1	7.79	403.1	8.35	11.73
9/5/2024 7:10	15.19	212.47	0.1	7.8	402.45	8.34	10.32
9/5/2024 7:00	15.2	211.35	0.1	7.8	402.16	8.34	9.34
9/5/2024 6:50	15.21	208.74	0.1	7.8	402.07	8.35	9.16
9/5/2024 6:40	15.25	208.05	0.1	7.81	402.18	8.37	13.57
9/5/2024 6:30	15.28	206.11	0.1	7.82	402.26	8.4	11.19
9/5/2024 6:20	15.33	200.72	0.1	7.83	402.15	8.41	7.31
9/5/2024 6:10	15.38	198.75	0.09	7.83	402.28	8.43	7.25
9/5/2024 6:00	15.51	188.16	0.09	7.86	401.39	8.53	6.54
9/5/2024 5:50	15.52	187	0.09	7.85	402.01	8.47	6.16
9/5/2024 5:40	15.62	184.25	0.09	7.87	401.39	8.57	6.65
9/5/2024 5:30	15.78	166.07	0.08	7.9	399.9	8.7	5.15
9/5/2024 5:20	15.81	166.09	0.08	7.91	399.66	8.7	7.07
9/5/2024 5:10	15.83	166.84	0.08	7.91	399.37	8.7	4.97
9/5/2024 5:00	15.84	166.41	0.08	7.91	399.42	8.69	4.96
9/5/2024 4:50	15.83	166.34	0.08	7.9	399.47	8.69	4.97
9/5/2024 4:40	15.86	166.04	0.08	7.9	399.3	8.68	5.21
9/5/2024 4:30	15.87	165.23	0.08	7.9	399.17	8.68	5.1
9/5/2024 4:20	15.88	167.2	0.08	7.91	399.06	8.68	5.5
9/5/2024 4:10	15.9	166.18	0.08	7.91	398.91	8.69	5.26
9/5/2024 4:00	15.91	165.12	0.08	7.91	398.68	8.67	4.82
9/5/2024 3:50	15.9	166.66	0.08	7.9	398.59	8.67	6.86
9/5/2024 3:40	15.95	167.18	0.08	7.91	397.95	8.68	5.66
9/5/2024 3:30	15.9	169.1	0.08	7.9	398.41	8.66	5.98
9/5/2024 3:20	15.93	168.49	0.08	7.9	398.23	8.66	6.02

WLNQ Downstream Sonde 2024-09-02 to 2024-09-08

9/5/2024 3:10	15.95	167.75	0.08	7.9	398.05	8.67	5.74
9/5/2024 3:00	15.94	169.82	0.08	7.9	397.81	8.66	5.73
9/5/2024 2:50	15.96	170.06	0.08	7.9	397.81	8.66	5.46
9/5/2024 2:40	15.98	168.82	0.08	7.9	397.36	8.66	5.58
9/5/2024 2:30	15.95	169.3	0.08	7.9	397.53	8.65	5.05
9/5/2024 2:20	15.97	169.1	0.08	7.9	397.15	8.67	5.99
9/5/2024 2:10	15.98	168.66	0.08	7.9	396.92	8.68	5.17
9/5/2024 2:00	15.97	169.38	0.08	7.89	396.92	8.66	4.76
9/5/2024 1:50	16	169.15	0.08	7.89	396.71	8.67	5.26
9/5/2024 1:40	15.99	169.5	0.08	7.89	396.47	8.65	4.68
9/5/2024 1:30	15.97	170.38	0.08	7.89	396.15	8.66	4.34
9/5/2024 1:20	15.98	170.75	0.08	7.89	395.64	8.66	4.49
9/5/2024 1:10	15.95	173.07	0.08	7.88	395.62	8.66	4.47
9/5/2024 1:00	15.94	175.68	0.08	7.88	395.17	8.67	6.23
9/5/2024 0:50	15.88	176.37	0.08	7.87	394.74	8.66	5.28
9/5/2024 0:40	15.76	183.64	0.09	7.86	394.06	8.65	5.11
9/5/2024 0:30	15.57	187.87	0.09	7.84	395.49	8.49	5.04
9/5/2024 0:20	15.31	214.42	0.1	7.78	396.95	8.3	5.38
9/5/2024 0:10	15.32	213.95	0.1	7.77	396.27	8.32	6.59
9/5/2024 0:00	15.34	215.28	0.1	7.78	396.53	8.27	7.6
9/4/2024 23:50	15.36	209.98	0.1	7.78	396.86	8.32	5.17
9/4/2024 23:40	15.39	213.61	0.1	7.78	396.7	8.21	7.28
9/4/2024 23:30	15.46	207.01	0.1	7.8	396.92	8.32	6.19
9/4/2024 23:20	15.6	203.08	0.1	7.81	395.18	8.3	6.33
9/4/2024 23:10	15.7	194.16	0.09	7.83	396	8.39	5.55
9/4/2024 23:00	15.88	187.89	0.09	7.86	394.06	8.49	6.43
9/4/2024 22:50	16.03	173.26	0.08	7.88	392.93	8.62	4.85
9/4/2024 22:40	16.04	174.39	0.08	7.88	392.57	8.62	5.02
9/4/2024 22:30	16.02	174.91	0.08	7.88	392.42	8.62	5.19
9/4/2024 22:20	16.03	174.64	0.08	7.88	392.21	8.58	5.51
9/4/2024 22:10	16.05	173.76	0.08	7.89	391.55	8.65	4.98
9/4/2024 22:00	16.05	172.86	0.08	7.89	391.12	8.6	4.72
9/4/2024 21:50	16.05	172.82	0.08	7.89	390.85	8.64	4.77
9/4/2024 21:40	16.03	174.47	0.08	7.88	390.8	8.62	3.61
9/4/2024 21:30	16	174.58	0.08	7.88	390.29	8.65	4.15
9/4/2024 21:20	15.98	176.14	0.08	7.87	390.17	8.62	5.41
9/4/2024 21:10	15.97	174.45	0.08	7.87	390.39	8.65	4.41
9/4/2024 21:00	15.96	175.97	0.08	7.87	390.11	8.64	4.22
9/4/2024 20:50	15.91	174.65	0.08	7.86	390.22	8.66	4.42
9/4/2024 20:40	15.88	176.08	0.08	7.86	389.8	8.64	5.91
9/4/2024 20:30	15.84	174.5	0.08	7.85	389.6	8.68	8.07
9/4/2024 20:20	15.75	174.73	0.08	7.84	388.93	8.64	6.17
9/4/2024 20:10	15.63	172.31	0.08	7.84	388.23	8.67	5.39
9/4/2024 20:00	15.47	221.34	0.11	7.75	392.18	8.29	9.52
9/4/2024 19:50	15.48	220.85	0.11	7.76	391.92	8.3	13.52
9/4/2024 19:40	15.48	220.9	0.11	7.76	391.72	8.29	10.48
9/4/2024 19:30	15.49	220.66	0.11	7.76	391.55	8.29	6.47

W LNG Downstream Sonde 2024-09-02 to 2024-09-08

9/4/2024 19:20	15.49	220.46	0.11	7.76	390.93	8.28	7.18
9/4/2024 19:10	15.5	220.14	0.1	7.76	390.25	8.29	6.16
9/4/2024 19:00	15.51	220.23	0.1	7.76	389.49	8.29	6.1
9/4/2024 18:50	15.51	219.98	0.1	7.76	388.74	8.3	7.31
9/4/2024 18:40	15.52	220.31	0.1	7.76	387.91	8.29	4.22
9/4/2024 18:30	15.53	219.48	0.1	7.77	387.58	8.29	4.24
9/4/2024 18:20	15.56	219.58	0.1	7.77	386.97	8.28	4.57
9/4/2024 18:10	15.59	218.98	0.1	7.78	386.59	8.29	3.83
9/4/2024 18:00	15.63	219.13	0.1	7.78	386.23	8.3	4.66
9/4/2024 17:50	15.66	218.71	0.1	7.79	386	8.31	3.82
9/4/2024 17:40	15.69	218.83	0.1	7.79	385.68	8.29	4.27
9/4/2024 17:30	15.72	218.28	0.1	7.8	385.41	8.31	3.79
9/4/2024 17:20	15.76	218.36	0.1	7.8	385.15	8.29	4.76
9/4/2024 17:10	15.8	217.45	0.1	7.82	385.01	8.32	4.52
9/4/2024 17:00	15.83	217.9	0.1	7.81	384.93	8.3	5.46
9/4/2024 16:50	15.86	217.19	0.1	7.83	385.01	8.31	3.18
9/4/2024 16:40	15.9	217.62	0.1	7.83	385.36	8.2	6.57
9/4/2024 16:30	15.93	217.29	0.1	7.82	385.31	8.28	3.38
9/4/2024 16:20	15.96	217.22	0.1	7.82	385.01	8.27	4.65
9/4/2024 16:10	16	216.55	0.1	7.83	384.81	8.28	3.7
9/4/2024 16:00	16.02	216.78	0.1	7.83	384.53	8.27	4.29
9/4/2024 15:50	16.06	216.4	0.1	7.83	384.57	8.28	3.98
9/4/2024 15:40	16.09	216.26	0.1	7.84	384.36	8.28	4.96
9/4/2024 15:30	16.11	215.55	0.1	7.83	384.13	8.28	3.24
9/4/2024 15:20	16.13	215.19	0.1	7.84	383.77	8.27	3.61
9/4/2024 15:10	16.14	214.49	0.1	7.84	383.68	8.31	3.13
9/4/2024 15:00	16.17	214.24	0.1	7.84	383.31	8.27	3.33
9/4/2024 14:50	16.19	213.65	0.1	7.84	383.06	8.3	3.47
9/4/2024 14:40	16.21	213.25	0.1	7.84	382.74	8.27	3.8
9/4/2024 14:30	16.23	212.14	0.1	7.84	382.43	8.29	5.05
9/4/2024 14:20	16.24	213.6	0.1	7.84	382.45	8.24	6.12
9/4/2024 14:10	16.25	211.17	0.1	7.84	382.3	8.29	4.09
9/4/2024 14:00	16.24	213.66	0.1	7.84	382.09	8.29	4.83
9/4/2024 13:50	16.22	210.54	0.1	7.84	383	8.31	4.56
9/4/2024 13:40	16.2	213.88	0.1	7.84	383.03	8.23	5.73
9/4/2024 13:30	16.19	208.01	0.1	7.84	382.97	8.34	8.73
9/4/2024 13:20	16.17	212.27	0.1	7.83	383.23	8.32	6.78
9/4/2024 13:10	16.15	207.89	0.1	7.85	382.69	8.4	6.21
9/4/2024 13:00	16.14	203.94	0.1	7.85	383.11	8.46	6.12
9/4/2024 12:50	16.12	197.47	0.09	7.87	382.78	8.52	5.58
9/4/2024 12:40	16.09	192.15	0.09	7.87	381.54	8.6	4.53
9/4/2024 12:30	16.06	187.35	0.09	7.89	380.48	8.66	4.25
9/4/2024 12:20	16.04	175.41	0.08	7.93	378.37	8.74	3.78
9/4/2024 12:10	16	174.88	0.08	7.94	377.93	8.81	3.96
9/4/2024 12:00	15.97	163.62	0.08	7.98	375.31	8.65	2.38
9/4/2024 11:50	15.93	148.64	0.07	8.05	372.98	9.02	1.82
9/4/2024 11:40	15.88	147.92	0.07	8.05	373.44	8.95	1.65

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

9/4/2024 11:30	15.8	150.25	0.07	8.03	373.3	9.03	1.87
9/4/2024 11:20	15.74	153.63	0.07	8.01	373.73	8.93	1.68
9/4/2024 11:10	15.72	176.25	0.08	7.92	376.35	8.81	3.04
9/4/2024 11:00	15.69	181.69	0.09	7.91	376.54	8.74	2.7
9/4/2024 10:50	15.63	184.05	0.09	7.9	376.11	8.77	2.6
9/4/2024 10:40	15.55	174.33	0.08	7.95	373.6	8.86	1.95
9/4/2024 10:30	15.51	212.11	0.1	7.83	377.71	8.39	5.13
9/4/2024 10:20	15.48	208.22	0.1	7.84	377.67	8.38	5.09
9/4/2024 10:10	15.44	204.51	0.1	7.84	377.52	8.44	4.22
9/4/2024 10:00	15.4	202.47	0.1	7.85	377.58	8.4	5.56
9/4/2024 9:50	15.38	193.85	0.09	7.85	377.86	8.64	6.69
9/4/2024 9:40	15.36	193.46	0.09	7.88	377.29	8.64	14.98
9/4/2024 9:30	15.29	204.87	0.1	7.84	385.41	6.54	192.03
9/4/2024 9:20	15.26	203.31	0.1	7.84	386.27	2.86	27.52
9/4/2024 9:10	15.26	196.42	0.09	7.85	386.62	2.88	27.05
9/4/2024 9:00	15.24	195.88	0.09	7.86	386.51	2.9	27.38
9/4/2024 8:50	15.21	199.01	0.09	7.84	386.54	2.92	27.81
9/4/2024 8:40	15.22	197.04	0.09	7.85	386.34	2.98	28.19
9/4/2024 8:30	15.2	198.4	0.09	7.84	386.19	3.01	27.39
9/4/2024 8:20	15.19	197.07	0.09	7.85	385.95	3.09	27.27
9/4/2024 8:10	15.15	199.06	0.09	7.85	385.79	3.19	27.61
9/4/2024 8:00	15.14	197.52	0.09	7.86	385.77	3.31	27.35
9/4/2024 7:50	15.11	196.34	0.09	7.86	386.45	3.47	27.9
9/4/2024 7:40	15.08	193.13	0.09	7.87	386.75	3.63	27.57
9/4/2024 7:30	14.97	198.12	0.09	7.88	387.14	3.81	27.94
9/4/2024 7:20	14.92	225.63	0.11	7.85	387.44	3.98	28.56
9/4/2024 7:10	14.93	225.43	0.11	7.85	387.35	4.02	27.23
9/4/2024 7:00	14.93	225.3	0.11	7.84	387.19	4.05	28.17
9/4/2024 6:50	14.94	224.94	0.11	7.84	387.21	4.07	27.88
9/4/2024 6:40	14.95	225.09	0.11	7.84	387.07	4.09	27.95
9/4/2024 6:30	14.95	224.83	0.11	7.84	387.04	4.11	28.29
9/4/2024 6:20	14.96	224.84	0.11	7.84	386.99	4.14	27.97
9/4/2024 6:10	14.97	224.25	0.11	7.84	386.96	4.16	28.36
9/4/2024 6:00	14.98	224.22	0.11	7.84	386.86	4.17	27.83
9/4/2024 5:50	14.99	223.78	0.11	7.84	386.86	4.17	28.2
9/4/2024 5:40	15	223.38	0.11	7.84	386.76	4.15	27.53
9/4/2024 5:30	15	222.75	0.11	7.84	386.72	4.13	27.92
9/4/2024 5:20	15.02	221.65	0.11	7.84	386.44	4.09	27.22
9/4/2024 5:10	15.04	220.53	0.11	7.84	386.38	4.09	26.87
9/4/2024 5:00	15.06	219.27	0.1	7.84	385.86	4	26.7
9/4/2024 4:50	15.11	215.34	0.1	7.85	385.53	4.05	27.59
9/4/2024 4:40	15.12	214.48	0.1	7.84	385.06	4.03	26.65
9/4/2024 4:30	15.21	207.59	0.1	7.85	385.01	4.13	26.22
9/4/2024 4:20	15.22	205.94	0.1	7.84	385.27	4.17	26.31
9/4/2024 4:10	15.12	215.04	0.1	7.83	385.42	4.22	26.93
9/4/2024 4:00	15.12	215.26	0.1	7.83	385.38	4.32	27.37
9/4/2024 3:50	15.11	215.23	0.1	7.83	385.35	4.46	27.74

W LNG Downstream Sonde 2024-09-02 to 2024-09-08

9/4/2024 3:40	15.12	213.28	0.1	7.84	385.38	4.66	27.3
9/4/2024 3:30	15.13	210.21	0.1	7.84	385.54	4.9	27.64
9/4/2024 3:20	15.15	199.63	0.09	7.86	385.73	5.26	27.16
9/4/2024 3:10	15.07	203.73	0.1	7.87	386.29	5.49	28.61
9/4/2024 3:00	15.01	225.2	0.11	7.85	386.03	5.62	26.63
9/4/2024 2:50	15.01	224.76	0.11	7.85	385.89	5.65	27.57
9/4/2024 2:40	15.02	225.11	0.11	7.85	385.89	5.68	28.64
9/4/2024 2:30	15.02	224.75	0.11	7.85	385.83	5.72	27.04
9/4/2024 2:20	15.03	224.6	0.11	7.85	385.75	5.74	27.24
9/4/2024 2:10	15.04	224.29	0.11	7.85	385.74	5.8	27.44
9/4/2024 2:00	15.06	224.1	0.11	7.85	385.64	5.83	26.85
9/4/2024 1:50	15.07	224.07	0.11	7.85	385.56	5.85	27.49
9/4/2024 1:40	15.08	224.15	0.11	7.85	385.49	5.88	26.94
9/4/2024 1:30	15.08	224.13	0.11	7.84	385.42	5.9	27.5
9/4/2024 1:20	15.09	223.79	0.11	7.84	385.37	5.91	27.53
9/4/2024 1:10	15.11	222.91	0.11	7.84	385.3	5.8	27.71
9/4/2024 1:00	15.13	221.89	0.11	7.84	385.15	5.79	27.41
9/4/2024 0:50	15.15	221.39	0.11	7.83	384.96	5.78	27.37
9/4/2024 0:40	15.17	219.95	0.1	7.84	384.69	5.82	27.05
9/4/2024 0:30	15.2	218.82	0.1	7.84	384.25	5.84	27.4
9/4/2024 0:20	15.23	216.59	0.1	7.84	383.84	5.86	27.2
9/4/2024 0:10	15.25	216.97	0.1	7.84	383.4	5.78	27.04
9/4/2024 0:00	15.37	211.51	0.1	7.84	383.25	5.8	26.86
9/3/2024 23:50	15.44	205.71	0.1	7.84	383.25	5.85	25.93
9/3/2024 23:40	15.43	206.53	0.1	7.84	383.1	5.87	26.18
9/3/2024 23:30	15.42	206.96	0.1	7.84	383.02	5.88	26.02
9/3/2024 23:20	15.43	207.19	0.1	7.84	382.91	5.9	25.96
9/3/2024 23:10	15.45	206.54	0.1	7.84	382.93	5.93	27.63
9/3/2024 23:00	15.46	206.31	0.1	7.84	382.67	5.93	26.48
9/3/2024 22:50	15.48	206.25	0.1	7.84	382.21	5.96	26.28
9/3/2024 22:40	15.49	204.58	0.1	7.84	381.74	6.03	25.38
9/3/2024 22:30	15.48	206.99	0.1	7.84	383.17	6.06	26.55
9/3/2024 22:20	15.49	206.57	0.1	7.84	383.1	6.04	25.52
9/3/2024 22:10	15.49	207.46	0.1	7.83	383.19	6.04	25.22
9/3/2024 22:00	15.5	207.94	0.1	7.83	382.99	6.07	25.43
9/3/2024 21:50	15.5	206.84	0.1	7.84	383.02	6.1	25.41
9/3/2024 21:40	15.52	207.55	0.1	7.84	382.76	6.07	26.25
9/3/2024 21:30	15.54	205.23	0.1	7.84	382.84	6.12	25.26
9/3/2024 21:20	15.54	204.64	0.1	7.84	382.81	6.13	26.13
9/3/2024 21:10	15.53	206.69	0.1	7.84	382.98	6.14	25.61
9/3/2024 21:00	15.53	206.42	0.1	7.84	382.72	6.1	25.79
9/3/2024 20:50	15.55	204.95	0.1	7.84	382.53	6.09	25.18
9/3/2024 20:40	15.56	204.2	0.1	7.84	382.51	6.08	25.84
9/3/2024 20:30	15.58	202.76	0.1	7.85	382.56	6.11	26.23
9/3/2024 20:20	15.56	203.88	0.1	7.84	382.52	6.12	28.54
9/3/2024 20:10	15.59	203.66	0.1	7.84	382.48	6.12	26.44
9/3/2024 20:00	15.6	203.35	0.1	7.84	382.59	6.15	25.15

WLNQ Downstream Sonde 2024-09-02 to 2024-09-08

9/3/2024 19:50	15.62	202.63	0.1	7.84	382.74	6.22	26.85
9/3/2024 19:40	15.6	204.38	0.1	7.84	382.72	6.25	25.31
9/3/2024 19:30	15.58	206.53	0.1	7.83	382.63	6.24	25.32
9/3/2024 19:20	15.62	204.95	0.1	7.84	382.28	6.23	26.78
9/3/2024 19:10	15.63	204.64	0.1	7.85	382.3	6.32	26.48
9/3/2024 19:00	15.63	204.79	0.1	7.85	382.04	6.33	26.16
9/3/2024 18:50	15.65	203.73	0.1	7.86	381.72	6.32	25.9
9/3/2024 18:40	15.65	204.06	0.1	7.86	381.46	6.32	26.82
9/3/2024 18:30	15.69	202.36	0.1	7.86	381.48	6.35	24.16
9/3/2024 18:20	15.69	203.04	0.1	7.86	381.4	6.35	25.27
9/3/2024 18:10	15.7	204.44	0.1	7.87	381.26	6.34	24.87
9/3/2024 18:00	15.73	203.85	0.1	7.87	381.21	6.35	24.64
9/3/2024 17:50	15.73	205.63	0.1	7.87	381.22	6.36	25.29
9/3/2024 17:40	15.77	204.33	0.1	7.87	381.3	6.34	24.34
9/3/2024 17:30	15.77	204.85	0.1	7.87	381.36	6.4	24.42
9/3/2024 17:20	15.8	203.29	0.1	7.88	381.62	6.48	24.01
9/3/2024 17:10	15.78	204.53	0.1	7.88	381.77	6.51	24.61
9/3/2024 17:00	15.75	207.63	0.1	7.87	381.88	6.44	24.22
9/3/2024 16:50	15.73	212.67	0.1	7.86	381.5	6.41	23.89
9/3/2024 16:40	15.83	206.03	0.1	7.87	381.61	6.46	24.26
9/3/2024 16:30	15.86	203.79	0.1	7.88	381.71	6.54	23.71
9/3/2024 16:20	15.88	202.45	0.1	7.88	382.06	6.61	24.01
9/3/2024 16:10	15.82	204.57	0.1	7.88	382.06	6.69	24.47
9/3/2024 16:00	15.79	204.53	0.1	7.88	382.18	6.65	24.33
9/3/2024 15:50	15.75	202.9	0.1	7.88	382.29	6.71	24.59
9/3/2024 15:40	15.75	198.24	0.09	7.89	382.72	6.77	25.3
9/3/2024 15:30	15.67	205.84	0.1	7.88	382.87	6.73	23.68
9/3/2024 15:20	15.62	203.87	0.1	7.88	383.26	6.71	23.18
9/3/2024 15:10	15.61	201.51	0.1	7.88	383.57	6.77	23.91
9/3/2024 15:00	15.56	201.65	0.1	7.88	383.7	6.85	23.03
9/3/2024 14:50	15.51	203.74	0.1	7.88	384.18	6.91	24.36
9/3/2024 14:40	15.45	215.14	0.1	7.86	385.12	7.02	23.57
9/3/2024 14:30	15.44	224.06	0.11	7.86	385.24	7.07	22.22
9/3/2024 14:20	15.46	224.31	0.11	7.85	385.3	7.07	22.22
9/3/2024 14:10	15.47	224.22	0.11	7.85	385.38	7.08	23.22
9/3/2024 14:00	15.46	224.84	0.11	7.85	385.43	7.11	22.96
9/3/2024 13:50	15.43	224.88	0.11	7.85	385.49	7.09	22.41
9/3/2024 13:40	15.44	225.13	0.11	7.85	385.47	7.13	22.76
9/3/2024 13:30	15.43	225.15	0.11	7.85	385.56	7.14	22.76
9/3/2024 13:20	15.41	225.66	0.11	7.85	385.68	7.16	22.66
9/3/2024 13:10	15.38	226.13	0.11	7.84	385.75	7.18	22.88
9/3/2024 13:00	15.36	226.22	0.11	7.84	385.8	7.17	22.23
9/3/2024 12:50	15.36	225.95	0.11	7.84	385.73	7.18	23.05
9/3/2024 12:50	15.36	225.95	0.11	7.84	385.73	7.18	23.05
9/3/2024 12:40	15.36	225.84	0.11	7.85	385.63	7.19	23.59
9/3/2024 12:30	15.38	225.52	0.11	7.85	385.7	7.19	23.31
9/3/2024 12:20	15.41	225.86	0.11	7.85	385.64	7.22	22.96

W LNG Downstream Sonde 2024-09-02 to 2024-09-08

9/3/2024 12:10	15.4	225.69	0.11	7.84	385.7	7.25	22.59
9/3/2024 12:00	15.41	225.79	0.11	7.84	385.68	7.28	23.29
9/3/2024 11:50	15.38	225.76	0.11	7.84	385.78	7.31	22.22
9/3/2024 11:40	15.37	225.84	0.11	7.84	385.78	7.35	21.91
9/3/2024 11:30	15.36	225.92	0.11	7.84	385.86	7.4	21.36
9/3/2024 11:20	15.34	225.8	0.11	7.84	385.89	7.47	21.78
9/3/2024 11:10	15.34	225.5	0.11	7.84	385.88	7.51	21.79
9/3/2024 11:00	15.35	225.45	0.11	7.84	385.89	7.55	21.54
9/3/2024 10:50	15.35	225.34	0.11	7.84	385.88	7.58	21.38
9/3/2024 10:40	15.34	225.65	0.11	7.84	385.91	7.6	21.68
9/3/2024 10:30	15.31	225.64	0.11	7.84	386.08	7.63	21.62
9/3/2024 10:20	15.3	226.21	0.11	7.83	386.22	7.66	21.99
9/3/2024 10:10	15.28	226.47	0.11	7.83	386.33	7.67	21.67
9/3/2024 10:00	15.25	227.02	0.11	7.82	386.35	7.66	21.44
9/3/2024 9:50	15.24	226.55	0.11	7.82	386.57	7.69	21.84
9/3/2024 9:40	15.24	226.94	0.11	7.82	386.76	7.69	22.06
9/3/2024 9:30	15.23	226.92	0.11	7.81	386.76	7.69	21.17
9/3/2024 9:20	15.24	227.01	0.11	7.81	386.79	7.72	21.37
9/3/2024 9:10	15.24	226.75	0.11	7.81	386.81	7.76	22.4
9/3/2024 9:00	15.24	226.74	0.11	7.8	386.89	7.77	22.13
9/3/2024 8:50	15.25	226.69	0.11	7.8	386.78	7.8	21.39
9/3/2024 8:40	15.24	227.54	0.11	7.8	386.94	7.8	21.26
9/3/2024 8:30	15.22	227.39	0.11	7.79	386.94	7.78	21.34
9/3/2024 8:20	15.21	227.34	0.11	7.79	386.86	7.78	21.39
9/3/2024 8:10	15.21	226.86	0.11	7.79	386.79	7.79	21.44
9/3/2024 8:00	15.21	226.94	0.11	7.78	386.62	7.8	21.65
9/3/2024 7:50	15.21	226.41	0.11	7.78	386.66	7.8	21.51
9/3/2024 7:40	15.22	225.94	0.11	7.78	386.59	7.77	22.16
9/3/2024 7:30	15.23	224.28	0.11	7.79	386.7	7.69	21.5
9/3/2024 7:20	15.26	222.03	0.11	7.79	386.53	7.63	21.16
9/3/2024 7:10	15.28	219.59	0.1	7.78	386.3	7.71	22.26
9/3/2024 7:00	15.31	215.91	0.1	7.79	386.04	7.64	21.81
9/3/2024 6:50	15.42	200.44	0.1	7.81	385.85	7.87	21.05
9/3/2024 6:40	15.32	208.79	0.1	7.8	386.81	7.88	22.09
9/3/2024 6:30	15.2	226.05	0.11	7.79	386.96	7.92	21.29
9/3/2024 6:20	15.21	225.98	0.11	7.79	386.81	7.91	20.9
9/3/2024 6:10	15.22	225.23	0.11	7.78	386.76	7.88	21.12
9/3/2024 6:00	15.24	224.52	0.11	7.78	386.56	7.84	20.99
9/3/2024 5:50	15.27	222.83	0.11	7.78	386.24	7.74	20.55
9/3/2024 5:40	15.34	219.41	0.1	7.78	386.09	7.61	21
9/3/2024 5:30	15.34	219	0.1	7.78	385.88	7.7	21.99
9/3/2024 5:20	15.49	207.67	0.1	7.8	385.26	7.92	22.05
9/3/2024 5:10	15.68	192.85	0.09	7.82	384.68	8.05	20.79
9/3/2024 5:00	15.69	192.73	0.09	7.82	385.17	8.09	22.16
9/3/2024 4:50	15.62	196.68	0.09	7.81	385.32	8.09	19.72
9/3/2024 4:40	15.6	197.96	0.09	7.81	385.73	8	20.84
9/3/2024 4:30	15.58	198.69	0.09	7.81	385.74	8.05	20.72

WLNQ Downstream Sonde 2024-09-02 to 2024-09-08

9/3/2024 4:30	15.58	198.69	0.09	7.81	385.74	8.05	20.72
9/3/2024 4:20	15.58	198.6	0.09	7.8	386	8.06	20.56
9/3/2024 4:10	15.58	197.38	0.09	7.8	386.07	8.01	21.63
9/3/2024 4:00	15.54	200.57	0.1	7.79	386.12	8.04	22.12
9/3/2024 3:50	15.5	201.95	0.1	7.79	386.07	8.01	20.77
9/3/2024 3:40	15.51	198.67	0.09	7.8	386.15	7.99	20.33
9/3/2024 3:30	15.45	198.75	0.09	7.8	386.23	8.03	22.1
9/3/2024 3:20	15.39	198.32	0.09	7.8	386.36	8.02	27.05
9/3/2024 3:10	15.23	208.12	0.1	7.8	387.42	7.84	21.56
9/3/2024 3:00	15.17	228.61	0.11	7.78	387.7	7.94	18.96
9/3/2024 2:50	15.17	228.39	0.11	7.78	387.84	7.95	19.72
9/3/2024 2:40	15.17	228.65	0.11	7.78	388.05	7.94	19.05
9/3/2024 2:30	15.17	228.39	0.11	7.78	387.97	7.92	19.2
9/3/2024 2:20	15.17	228.14	0.11	7.78	388.16	7.87	19.34
9/3/2024 2:10	15.18	228.31	0.11	7.78	388.22	8.01	20.05
9/3/2024 2:00	15.18	228.35	0.11	7.78	388.58	7.93	19.61
9/3/2024 1:50	15.18	228.27	0.11	7.78	388.59	7.95	19.72
9/3/2024 1:40	15.18	228.11	0.11	7.78	388.4	7.99	20.11
9/3/2024 1:30	15.18	227.71	0.11	7.78	388.41	8.03	19.95
9/3/2024 1:20	15.19	227.7	0.11	7.78	388.3	7.99	19.08
9/3/2024 1:10	15.19	227.46	0.11	7.78	388.17	8	19.09
9/3/2024 1:00	15.19	227.53	0.11	7.78	388.14	8	18.42
9/3/2024 0:50	15.19	227.26	0.11	7.79	388.25	7.97	19
9/3/2024 0:40	15.19	227.56	0.11	7.78	388.24	7.92	18.7
9/3/2024 0:30	15.2	227.07	0.11	7.78	388.17	8.03	19.28
9/3/2024 0:20	15.2	227.18	0.11	7.79	388.14	8.04	18.79
9/3/2024 0:10	15.2	227.21	0.11	7.78	387.92	8.04	18.6
9/3/2024 0:00	15.2	227.11	0.11	7.78	387.92	8.05	18.76
9/2/2024 23:50	15.2	227.02	0.11	7.78	387.8	8.05	18.3
9/2/2024 23:40	15.21	227.27	0.11	7.78	387.78	8.03	18.92
9/2/2024 23:30	15.21	227.14	0.11	7.78	387.55	8.02	18.87
9/2/2024 23:20	15.21	227.15	0.11	7.78	387.54	8.02	18.46
9/2/2024 23:10	15.21	226.86	0.11	7.78	387.39	8.02	19.01
9/2/2024 23:00	15.22	226.79	0.11	7.78	387.35	8.01	19.55
9/2/2024 22:50	15.22	226.49	0.11	7.79	387.28	8.06	18.64
9/2/2024 22:40	15.22	226.56	0.11	7.79	387.08	8.09	18.82
9/2/2024 22:30	15.23	226.23	0.11	7.79	386.99	8.09	19.07
9/2/2024 22:20	15.23	226.04	0.11	7.79	386.71	8.08	19.23
9/2/2024 22:10	15.23	225.73	0.11	7.8	386.49	8.11	19.16
9/2/2024 22:00	15.24	225.73	0.11	7.8	386.35	8.14	19.26
9/2/2024 21:50	15.24	225.57	0.11	7.8	386.3	8.16	19.02
9/2/2024 21:40	15.24	225.73	0.11	7.8	386.31	8.17	19.74
9/2/2024 21:30	15.24	225.62	0.11	7.8	386.42	8.16	18.86
9/2/2024 21:20	15.24	225.66	0.11	7.8	386.41	8.16	20.03
9/2/2024 21:10	15.25	225.32	0.11	7.8	386.53	8.17	18.79
9/2/2024 21:00	15.25	225.23	0.11	7.8	386.32	8.16	18.79
9/2/2024 20:50	15.26	224.77	0.11	7.8	385.88	8.16	20.11

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

9/2/2024 20:40	15.26	224.77	0.11	7.81	385.96	8.17	18.88
9/2/2024 20:30	15.27	224.87	0.11	7.81	385.94	8.19	19.23
9/2/2024 20:20	15.28	225.27	0.11	7.81	385.63	8.18	19.08
9/2/2024 20:10	15.29	225	0.11	7.81	385.29	8.18	19.82
9/2/2024 20:00	15.3	224.87	0.11	7.81	385.27	8.19	18.84
9/2/2024 19:50	15.31	224.22	0.11	7.81	385.1	8.19	18.73
9/2/2024 19:40	15.32	223.9	0.11	7.82	384.88	8.2	19.43
9/2/2024 19:30	15.33	223.41	0.11	7.82	384.54	8.2	18.86
9/2/2024 19:20	15.34	223.25	0.11	7.83	384.22	8.2	18.54
9/2/2024 19:10	15.35	222.88	0.11	7.84	383.82	8.21	18.23
9/2/2024 19:00	15.36	222.85	0.11	7.83	383.52	8.21	18.5
9/2/2024 18:50	15.38	222.24	0.11	7.84	383.26	8.22	18.84
9/2/2024 18:40	15.4	221.95	0.11	7.85	383	8.22	18.29
9/2/2024 18:30	15.42	221.45	0.11	7.85	382.74	8.22	18.62
9/2/2024 18:20	15.45	221.24	0.11	7.85	382.55	8.22	18.67
9/2/2024 18:10	15.48	221.13	0.11	7.86	382.42	8.2	18.47
9/2/2024 18:00	15.5	221.02	0.11	7.86	382.14	8.2	18.27
9/2/2024 17:50	15.51	220.26	0.1	7.86	381.82	8.21	18.17
9/2/2024 17:40	15.54	219.92	0.1	7.86	381.45	8.21	18.93
9/2/2024 17:30	15.55	219.51	0.1	7.87	381.28	8.22	18.24
9/2/2024 17:20	15.59	219.39	0.1	7.87	381.23	8.22	18.35
9/2/2024 17:10	15.63	218.82	0.1	7.87	380.97	8.21	17.74
9/2/2024 17:00	15.64	218.56	0.1	7.87	380.45	8.21	18.36
9/2/2024 16:50	15.65	218.05	0.1	7.87	379.87	8.2	18.1
9/2/2024 16:40	15.72	217.8	0.1	7.88	379.39	8.2	18.48
9/2/2024 16:30	15.82	217.31	0.1	7.88	378.87	8.21	18.53
9/2/2024 16:20	15.85	216.84	0.1	7.88	378.55	8.22	17.5
9/2/2024 16:10	15.89	215.63	0.1	7.87	378.42	8.2	17.73
9/2/2024 16:00	16.01	214.39	0.1	7.87	378.42	8.13	17.1
9/2/2024 15:50	16.39	200.79	0.1	7.89	377.53	8.12	16.57
9/2/2024 15:40	16.39	199.72	0.1	7.89	377.82	8.1	17.18
9/2/2024 15:30	16.42	195.1	0.09	7.89	377.76	8.21	16.74
9/2/2024 15:20	16.29	198.76	0.09	7.88	378.84	8.17	19.15
9/2/2024 15:10	16.02	216.7	0.1	7.87	379.93	8.18	16.54
9/2/2024 15:00	16.02	219.78	0.1	7.87	379.71	8.2	16.67
9/2/2024 14:50	16.05	219.59	0.1	7.87	379.44	8.19	16.31
9/2/2024 14:40	16.06	219.45	0.1	7.87	378.83	8.17	16.16
9/2/2024 14:30	16.09	218.92	0.1	7.87	378.47	8.17	16.03
9/2/2024 14:20	16.1	218.61	0.1	7.87	378.19	8.16	16
9/2/2024 14:10	16.12	217.28	0.1	7.87	377.81	8.16	16.49
9/2/2024 14:00	16.12	217.29	0.1	7.87	377.6	8.2	15.67
9/2/2024 13:50	16.1	216.52	0.1	7.87	377.09	8.2	16.11
9/2/2024 13:40	16.14	216.07	0.1	7.87	376.77	8.21	15.57
9/2/2024 13:30	16.12	217.15	0.1	7.87	376.73	8.2	16.42
9/2/2024 13:20	16.13	216.61	0.1	7.87	376.73	8.15	15.54
9/2/2024 13:10	16.18	210.93	0.1	7.87	376.84	8.14	16.26
9/2/2024 13:00	16.16	211.17	0.1	7.87	376.77	8.1	15.39

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

9/2/2024 12:50	16.18	208.58	0.1	7.88	376.47	8.06	15.63
9/2/2024 12:40	16.26	202.87	0.1	7.88	376.11	8.11	14.64
9/2/2024 12:30	16.28	200.01	0.1	7.9	375.73	8.19	14.36
9/2/2024 12:20	16.25	198.87	0.09	7.89	375.99	8.23	16.79
9/2/2024 12:10	16.23	198.92	0.09	7.89	375.64	8.32	14.06
9/2/2024 12:00	16.13	202	0.1	7.87	376.94	8.22	13.92
9/2/2024 11:50	16	209.76	0.1	7.85	377.56	8.19	13.41
9/2/2024 11:40	15.95	210.3	0.1	7.85	377.91	8.14	13.25
9/2/2024 11:30	15.88	212.12	0.1	7.85	378.12	8.12	14.44
9/2/2024 11:20	15.82	212.88	0.1	7.85	378.38	8.19	13.74
9/2/2024 11:10	15.75	214.34	0.1	7.85	378.51	8.19	13.27
9/2/2024 11:00	15.73	212.5	0.1	7.85	378.18	8.27	13.1
9/2/2024 10:50	15.73	209.58	0.1	7.88	377.6	8.29	14.04
9/2/2024 10:50	15.73	209.58	0.1	7.88	377.6	8.29	14.04
9/2/2024 10:40	15.66	209.09	0.1	7.86	378.73	8.25	16.84
9/2/2024 10:30	15.54	212.47	0.1	7.85	379.64	8.31	14.32
9/2/2024 10:20	15.43	217.79	0.1	7.84	380.36	8.25	13.01
9/2/2024 10:10	15.53	205.92	0.1	7.86	379.51	8.39	14.15
9/2/2024 10:00	15.41	208.52	0.1	7.84	380.96	8.39	13.02
9/2/2024 9:50	15.36	196.02	0.09	7.85	380.79	8.4	13
9/2/2024 9:40	15.16	203.74	0.1	7.83	382.41	8.37	15.25
9/2/2024 9:30	15.09	226.5	0.11	7.81	384.05	8.35	12.42
9/2/2024 9:20	15.03	226.55	0.11	7.81	384.09	8.36	13.08
9/2/2024 9:10	14.99	226.67	0.11	7.81	384.25	8.36	13.02
9/2/2024 9:00	14.96	227.24	0.11	7.81	384.67	8.36	12.63
9/2/2024 8:50	14.95	227.45	0.11	7.8	384.2	8.36	12.57
9/2/2024 8:40	14.93	226.61	0.11	7.81	383.89	8.35	12.99
9/2/2024 8:30	14.92	226.08	0.11	7.82	383.69	8.37	12.89
9/2/2024 8:20	14.92	225.91	0.11	7.82	383.6	8.36	12.18
9/2/2024 8:10	14.92	226.13	0.11	7.82	383.41	8.36	12.07
9/2/2024 8:00	14.91	226	0.11	7.82	383.16	8.35	11.97
9/2/2024 7:50	14.9	225.82	0.11	7.83	382.97	8.36	12.49
9/2/2024 7:40	14.9	225.84	0.11	7.83	382.89	8.35	13.4
9/2/2024 7:30	14.89	225.84	0.11	7.83	382.88	8.34	12.44
9/2/2024 7:20	14.89	225.73	0.11	7.83	382.88	8.36	13.06
9/2/2024 7:10	14.89	225.82	0.11	7.83	382.74	8.35	13.93
9/2/2024 7:00	14.9	225.94	0.11	7.83	382.74	8.35	12.25
9/2/2024 6:50	14.91	226.05	0.11	7.83	382.59	8.35	12.04
9/2/2024 6:40	14.9	225.75	0.11	7.83	382.57	8.36	13.08
9/2/2024 6:30	14.91	225.89	0.11	7.83	382.46	8.36	12.12
9/2/2024 6:20	14.91	225.8	0.11	7.83	382.32	8.36	12.46
9/2/2024 6:10	14.91	225.78	0.11	7.83	382.31	8.36	12.49
9/2/2024 6:00	14.91	225.84	0.11	7.83	382.17	8.35	12.6
9/2/2024 5:50	14.92	225.95	0.11	7.82	382.1	8.37	12.24
9/2/2024 5:40	14.93	225.92	0.11	7.82	382.1	8.35	12.39
9/2/2024 5:30	14.94	226.14	0.11	7.82	381.98	8.36	12.1
9/2/2024 5:20	14.95	226.22	0.11	7.82	382.13	8.36	13.01

WLNG Downstream Sonde 2024-09-02 to 2024-09-08

9/2/2024 5:10	14.95	226.55	0.11	7.81	382.02	8.36	12.21
9/2/2024 5:00	14.95	226.28	0.11	7.81	381.78	8.37	12.48
9/2/2024 4:50	14.96	225.93	0.11	7.82	381.4	8.37	11.96
9/2/2024 4:40	14.96	225.91	0.11	7.82	381.22	8.36	12.41
9/2/2024 4:30	14.97	225.98	0.11	7.82	381.21	8.36	12.36
9/2/2024 4:20	14.98	226.25	0.11	7.81	381.17	8.37	11.88
9/2/2024 4:10	14.98	226.24	0.11	7.81	381.05	8.36	11.77
9/2/2024 4:00	14.99	226.18	0.11	7.81	380.85	8.36	13.21
9/2/2024 3:50	15	226.12	0.11	7.8	380.87	8.34	12.24
9/2/2024 3:40	15.01	226.01	0.11	7.8	380.74	8.36	12.25
9/2/2024 3:30	15.01	225.91	0.11	7.8	380.7	8.36	11.68
9/2/2024 3:20	15.02	225.69	0.11	7.8	380.5	8.36	13.29
9/2/2024 3:10	15.03	225.43	0.11	7.8	380.37	8.35	11.07
9/2/2024 3:00	15.04	225.41	0.11	7.8	380.3	8.36	12.63
9/2/2024 2:50	15.05	225.17	0.11	7.79	380.09	8.37	11.42
9/2/2024 2:40	15.07	224.49	0.11	7.79	379.57	8.36	11.31
9/2/2024 2:30	15.09	222.7	0.11	7.8	379.13	8.37	11.31
9/2/2024 2:20	15.11	221.13	0.11	7.79	378.85	8.37	10.73
9/2/2024 2:10	15.15	217.97	0.1	7.79	378.94	8.38	11.19
9/2/2024 2:00	15.15	220.48	0.11	7.78	379.39	8.36	10.94
9/2/2024 1:50	15.29	210.94	0.1	7.79	379.08	8.36	10.51
9/2/2024 1:40	15.34	202.04	0.1	7.8	378.75	8.43	10.55
9/2/2024 1:30	15.29	200.13	0.1	7.79	378.92	8.42	10.23
9/2/2024 1:20	15.15	208.34	0.1	7.79	379.95	8.35	10.33
9/2/2024 1:10	15.09	225.5	0.11	7.78	380.8	8.32	10.69
9/2/2024 1:00	15.09	224.96	0.11	7.78	380.47	8.32	10.58
9/2/2024 0:50	15.1	224.4	0.11	7.78	380.3	8.31	10.5
9/2/2024 0:40	15.1	223.4	0.11	7.78	379.76	8.3	10.9
9/2/2024 0:30	15.11	222.23	0.11	7.78	379.55	8.28	10.05
9/2/2024 0:20	15.11	221.11	0.11	7.78	379.46	8.31	10.05
9/2/2024 0:10	15.12	219.32	0.1	7.78	379.55	8.31	10.72
9/2/2024 0:00	15.15	213.69	0.1	7.78	378.95	8.36	9.64