




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

Reporting Week	Sept 16 th to Sept 22 nd , 2024
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BCER Waste Discharge Permit Weekly Report

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

Appendix B: BC Rail Receiving Environment Documentation

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Preamble

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

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

Introduction

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

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

Sampling Methodology

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

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

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


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

Permit Frequency	Parameters	Details
Daily	Visible Sheen	In field inspection
Daily (or per batch)	DO	Monitoring using YSI ProDSS
	ORP	Monitoring using YSI ProDSS
	Salinity	Monitoring using YSI ProDSS
Real Time (or per batch)	pH	Monitoring using GF Dryloc pH Series NPT
	Temperature	Monitoring using LevelPro PT100 Temperature and Signet 2350 Temp sensor
	NTU	Monitoring using Observator NEP9504GPI
	Electrical Conductivity	Monitoring using ProCon C450
Weekly (or per batch) Lab Samples	List prescribed in permit	Lab samples

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

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

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

Summary-BC Rail Site

Site Activities

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

Point of Discharge from Water Treatment System Monitoring

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


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Table 3: Discharge from Water Treatment System Information

Location	Date of Discharge	Date of Lab Sample (for the discharge)	Real Time Monitored	Discharge Rate (batch)	Discharge Volume (batch)	Results
BC Rail- No discharges						

*Max discharge is 515 m3/day

Exceedances

No exceedances this reporting period.

Receiving Environment Monitoring

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

Table 4: Upstream Monitoring Information

Location	Date of Lab Sample	Real Time Monitored	Results
Squamish River Upstream	2024-09-16	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	2023-09-16	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix B.

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

Receiving Environment Monitoring Details

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

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Summary-Woodfibre

Site Activities

- The downstream sonde/data logger was removed July 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 (not the permitted location), and removed on September 6th due to construction unrelated to EGP that was causing turbidity spikes. It was reinstalled September 19th at the same location as August 23rd, but there was observed to be work in proximity to the sonde location, the sonde data was not consistent and have peaks unrelated to discharge.
- 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	2024-09-16	Yes-Appendix C	94 m ³
Woodfibre	2024-09-17	Yes-Appendix C	290 m ³
Woodfibre	2024-09-18	Yes-Appendix C	145 m ³
Woodfibre	2024-09-19	Yes-Appendix C	241 m ³
Woodfibre	2024-09-20	Yes-Appendix C	353 m ³
Woodfibre	2024-09-21	Yes-Appendix C	309 m ³
Woodfibre	2024-09-22	Yes-Appendix C	378 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
----------	--------------------	---------------------	---------

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Woodfibre Upstream	2024-09-17	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix D.
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Table 5: Downstream Monitoring Information

	Date of Lab Sample	Real Time Monitored	Results
Woodfibre Downstream	2024-09-17	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. Reinstalled Sept 19 th , 2024. Contractor used a YSI to do in situ readings during discharges and results are available in the appendix.

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

Receiving Environment Monitoring Details

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

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



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**BCR Site Batch Sample Analysis
No Discharges**



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




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

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Appendix B: BCR Site Receiving Environment Documentation

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BCR Site Receiving Environment Sample Analysis

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BCR Site Receiving Environment Lab Documentation



CERTIFICATE OF ANALYSIS

Work Order : **VA24C4246**
Client : **Triton Environmental Consultants Ltd.**
Contact : [Redacted]
Address : [Redacted]

Telephone : ----
Project : 11964
PO : 11964-Task20-Phase3C-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

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Laboratory : ALS Environmental - Vancouver
Account Manager : [Redacted]
Address : [Redacted]

Telephone : [Redacted]
Date Samples Received : 16-Sep-2024 11:55
Date Analysis Commenced : 17-Sep-2024
Issue Date : 25-Sep-2024 09:09

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
[Redacted]		Metals, Burnaby, British Columbia
[Redacted]		Inorganics, Waterloo, Ontario
[Redacted]		Metals, Waterloo, Ontario
[Redacted]		Inorganics, Burnaby, British Columbia
[Redacted]		Administration, Burnaby, British Columbia
[Redacted]		Metals, Burnaby, British Columbia
[Redacted]		Metals, Burnaby, British Columbia



General Comments

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

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

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

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

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

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

<: less than.

>: greater than.

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

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

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

Qualifiers

<i>Qualifier</i>	<i>Description</i>
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US-1	SQU DS-1	---	---	---
(Matrix: Water)					Client sampling date / time	16-Sep-2024 09:09	16-Sep-2024 09:37	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4246-001	VA24C4246-002	-----	-----	-----	
					Result	Result	---	---	---	
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm	48.000	41.000	---	---	---	
pH, field	----	EF001/VA	0.10	pH units	7.80	7.60	---	---	---	
Temperature, field	----	EF001/VA	0.10	°C	9.90	9.80	---	---	---	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	13.8	12.2	---	---	---	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	19.7	17.8	---	---	---	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	49	44	---	---	---	
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	105	82.1	---	---	---	
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	12.7	10.9	---	---	---	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.114	0.0762	---	---	---	
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	1.85	1.66	---	---	---	
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	0.0208	0.0201	---	---	---	
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	0.150	0.110	---	---	---	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.107	0.0938	---	---	---	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	4.07	3.56	---	---	---	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	0.56	1.09	---	---	---	
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	3.20	2.70	---	---	---	
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	16-Sep-2024 09:09	16-Sep-2024 09:37	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4246-001	VA24C4246-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00033	0.00033	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.0374	0.0344	----	----	----	
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	0.0000140	0.0000127	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	5.87	5.13	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000104	0.000110	----	----	----	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	0.00082	0.00086	----	----	----	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	0.00073	0.00077	----	----	----	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00405	0.00375	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	1.58	1.55	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000386	0.000330	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0020	0.0020	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	1.22	1.21	----	----	----	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0433	0.0456	----	----	----	
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	0.000470	0.000442	----	----	----	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	0.00103	0.00102	----	----	----	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	0.139	0.106	----	----	----	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	1.31	1.28	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00294	0.00292	----	----	----	
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	8.61	7.42	----	----	----	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	3.01	2.53	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0552	0.0479	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	1.11	1.01	----	----	----	
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	0.000011	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	SQU US-1	SQU DS-1	----	----	----
(Matrix: Water)					Client sampling date / time	16-Sep-2024 09:09	16-Sep-2024 09:37	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4246-001	VA24C4246-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	0.00011	<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	0.0943	0.100	----	----	----	
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	0.000067	0.000069	----	----	----	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00473	0.00455	----	----	----	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0054	0.0064	----	----	----	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	0.00047	0.00038	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L	0.0431	0.0527	----	----	----	
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	0.00015	0.00014	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00487	0.00523	----	----	----	
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	4.56	4.04	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	0.000013	0.000011	----	----	----	
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00036	0.00042	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.057	0.056	----	----	----	
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	0.0011	0.0011	----	----	----	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.576	0.514	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00956	0.00912	----	----	----	
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	0.000460	0.000413	----	----	----	
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	16-Sep-2024 09:09	16-Sep-2024 09:37	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4246-001	VA24C4246-002	-----	-----	-----	
					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	0.854	0.749	----	----	----	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00109	0.00103	----	----	----	
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	4.02	3.28	----	----	----	
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	2.06	1.76	----	----	----	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0298	0.0269	----	----	----	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	1.27	0.95	----	----	----	
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	0.00132	0.00190	----	----	----	
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	0.000020	0.000020	----	----	----	
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	0.00126	0.00097	----	----	----	
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	0.0118 ^{DTC}	0.0014	----	----	----	
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	Field	----	----	----	
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	----	----	----	
Speciated Metals										
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/WT	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Chromium, trivalent [Cr III], total	16065-83-1	EC535/WT	0.00050	mg/L	0.00082	0.00086	----	----	----	

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 : VA24C4246</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-Task20-Phase3C-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 : 16-Sep-2024 11:55</p> <p>Issue Date : 25-Sep-2024 09:09</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
- 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) SQU DS-1	E298	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Ammonia by Fluorescence											
Amber glass total (sulfuric acid) SQU US-1	E298	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Bromide in Water by IC (Low Level)											
HDPE SQU DS-1	E235.Br-L	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Bromide in Water by IC (Low Level)											
HDPE SQU US-1	E235.Br-L	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Chloride in Water by IC											
HDPE SQU DS-1	E235.Cl	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Chloride in Water by IC											
HDPE SQU US-1	E235.Cl	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Fluoride in Water by IC											
HDPE SQU DS-1	E235.F	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-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	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE SQU DS-1	E235.NO3-L	16-Sep-2024	17-Sep-2024	3 days	1 days	✔	17-Sep-2024	3 days	1 days	✔	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE SQU US-1	E235.NO3-L	16-Sep-2024	17-Sep-2024	3 days	1 days	✔	17-Sep-2024	3 days	1 days	✔	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE SQU DS-1	E235.NO2-L	16-Sep-2024	17-Sep-2024	3 days	1 days	✔	17-Sep-2024	3 days	1 days	✔	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE SQU US-1	E235.NO2-L	16-Sep-2024	17-Sep-2024	3 days	1 days	✔	17-Sep-2024	3 days	1 days	✔	
Anions and Nutrients : Sulfate in Water by IC											
HDPE SQU DS-1	E235.SO4	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Sulfate in Water by IC											
HDPE SQU US-1	E235.SO4	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	17-Sep-2024	28 days	1 days	✔	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) SQU DS-1	E366	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) SQU US-1	E366	16-Sep-2024	17-Sep-2024	28 days	1 days	✔	18-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	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) SQU DS-1	E372-U	16-Sep-2024	17-Sep-2024	28 days	1 days	✓	17-Sep-2024	28 days	2 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) SQU US-1	E372-U	16-Sep-2024	17-Sep-2024	28 days	1 days	✓	17-Sep-2024	28 days	2 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) SQU DS-1	E509	16-Sep-2024	22-Sep-2024	28 days	6 days	✓	22-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) SQU US-1	E509	16-Sep-2024	22-Sep-2024	28 days	6 days	✓	22-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) SQU DS-1	E421	16-Sep-2024	22-Sep-2024	180 days	6 days	✓	24-Sep-2024	180 days	8 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) SQU US-1	E421	16-Sep-2024	22-Sep-2024	180 days	6 days	✓	24-Sep-2024	180 days	8 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	16-Sep-2024	----	----	----		18-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	16-Sep-2024	----	----	----		18-Sep-2024	----	2 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) SQU DS-1	E358-L	16-Sep-2024	17-Sep-2024	28 days	1 days	✓	17-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	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) SQU US-1	E358-L	16-Sep-2024	17-Sep-2024	28 days	1 days	✓	17-Sep-2024	28 days	1 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE SQU DS-1	E290	16-Sep-2024	17-Sep-2024	14 days	1 days	✓	18-Sep-2024	14 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE SQU US-1	E290	16-Sep-2024	17-Sep-2024	14 days	1 days	✓	18-Sep-2024	14 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE SQU DS-1	E162	16-Sep-2024	----	----	----		21-Sep-2024	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE SQU US-1	E162	16-Sep-2024	----	----	----		21-Sep-2024	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE SQU DS-1	E160	16-Sep-2024	----	----	----		21-Sep-2024	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE SQU US-1	E160	16-Sep-2024	----	----	----		21-Sep-2024	7 days	5 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) SQU DS-1	E532	16-Sep-2024	----	----	----		18-Sep-2024	28 days	2 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) SQU US-1	E532	16-Sep-2024	----	----	----		18-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		
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) SQU DS-1	E508	16-Sep-2024	22-Sep-2024	28 days	6 days	✔	22-Sep-2024	28 days	6 days	✔	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) SQU US-1	E508	16-Sep-2024	22-Sep-2024	28 days	6 days	✔	22-Sep-2024	28 days	6 days	✔	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) SQU DS-1	E420	16-Sep-2024	20-Sep-2024	180 days	5 days	✔	23-Sep-2024	180 days	8 days	✔	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) SQU US-1	E420	16-Sep-2024	20-Sep-2024	180 days	5 days	✔	23-Sep-2024	180 days	8 days	✔	
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)											
HDPE total (zinc acetate+sodium hydroxide) SQU DS-1	E395	16-Sep-2024	----	----	----		17-Sep-2024	7 days	1 days	✔	
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)											
HDPE total (zinc acetate+sodium hydroxide) SQU US-1	E395	16-Sep-2024	----	----	----		17-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 (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1655953	1	13	7.6	5.0	✔
Ammonia by Fluorescence	E298	1655549	1	12	8.3	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1655959	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	1655958	1	17	5.8	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1666339	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1658637	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1655552	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1655956	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1655961	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1655960	1	19	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1655957	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	1664960	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1658556	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1666367	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1658450	2	20	10.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1655551	1	6	16.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1655548	1	10	10.0	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1655230	1	12	8.3	5.0	✔
TSS by Gravimetry	E160	1664950	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1655953	1	13	7.6	5.0	✔
Ammonia by Fluorescence	E298	1655549	1	12	8.3	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1655959	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	1655958	1	17	5.8	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1666339	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1658637	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1655552	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1655956	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1655961	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1655960	1	19	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1655957	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	1664960	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1658556	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1666367	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1658450	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1655551	1	6	16.6	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	1655548	1	10	10.0	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1655230	1	12	8.3	5.0	✔
TSS by Gravimetry	E160	1664950	1	20	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1655953	1	13	7.6	5.0	✔
Ammonia by Fluorescence	E298	1655549	1	12	8.3	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1655959	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	1655958	1	17	5.8	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1666339	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1658637	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1655552	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1655956	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1655961	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1655960	1	19	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1655957	1	17	5.8	5.0	✔
TDS by Gravimetry	E162	1664960	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1658556	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1666367	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1658450	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1655551	1	6	16.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1655548	1	10	10.0	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1655230	1	12	8.3	5.0	✔
TSS by Gravimetry	E160	1664950	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1655549	1	12	8.3	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1655959	1	17	5.8	5.0	✔
Chloride in Water by IC	E235.Cl	1655958	1	17	5.8	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1666339	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1658637	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1655552	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1655956	1	17	5.8	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1655961	1	20	5.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1655960	1	19	5.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1655957	1	17	5.8	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1658556	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1666367	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1658450	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1655551	1	6	16.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1655548	1	10	10.0	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	1655230	1	12	8.3	5.0	✔



Methodology References and Summaries

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

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



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

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Work Order : VA24C4246
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 HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.

QUALITY CONTROL REPORT

Work Order : **VA24C4246**
Client : Triton Environmental Consultants Ltd.
Contact :
Address :

Telephone :
Project : 11964
PO : 11964-Task20-Phase3C-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 : 16-Sep-2024 11:55
Date Analysis Commenced : 17-Sep-2024
Issue Date : 25-Sep-2024 09:09

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

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Work Order : VA24C4246
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: 1665953)											
VA24C4161-003	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	125	126	0.719%	20%	----
Physical Tests (QC Lot: 1664950)											
FJ2402778-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1664960)											
FJ2402778-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	173	166	6	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655548)											
KS2403751-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0056	0.0050	0.0006	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655549)											
KS2403751-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0077	0.0052	0.0025	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655551)											
VA24C4202-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.034	0.033	0.0007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655956)											
KS2403729-001	Anonymous	Fluoride	16984-48-8	E235.F	0.400	mg/L	<0.400	<0.400	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655957)											
KS2403729-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	6.00	mg/L	2610	2590	0.712%	20%	----
Anions and Nutrients (QC Lot: 1655958)											
KS2403729-001	Anonymous	Chloride	16887-00-6	E235.Cl	10.0	mg/L	37.4	36.8	0.68	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1655959)											
KS2403729-001	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: 1655960)											
KS2403729-001	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: 1655961)											
KS2403729-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1655552)											
VA24C4246-001	SQU US-1	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	0.56	0.59	0.04	Diff <2x LOR	----
Total Sulfides (QC Lot: 1655230)											
VA24C3826-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0075	mg/L	0.0385	0.0392	0.0006	Diff <2x LOR	----
Total Metals (QC Lot: 1658450)											
VA24C4068-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00097	0.00093	0.00004	Diff <2x LOR	----
VA24C4068-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0091	0.0094	0.0004	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: 1658450) - continued											
VA24C4068-001	Anonymous	Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00042	0.00041	0.000002	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0166	0.0168	1.43%	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	<0.010	<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	12.3	12.4	0.730%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000018	0.000018	0.0000004	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	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.041	0.040	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	0.0020	0.0020	0.00003	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	3.67	3.71	1.28%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.00719	0.00722	0.409%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000800	0.000790	1.28%	20%	----
		Nickel, total	7440-02-0	E420	0.000050	mg/L	0.00145	0.00137	0.00008	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	3.01	2.97	1.18%	20%	----
		Rubidium, total	7440-17-7	E420	0.000020	mg/L	0.00456	0.00447	1.93%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	0.12	0.11	0.01	Diff <2x LOR	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	2.83	2.68	5.31%	20%	----
		Strontium, total	7440-24-6	E420	0.000020	mg/L	0.0998	0.0950	5.03%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	4.35	4.34	0.02	Diff <2x LOR	----
		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	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.000030	mg/L	0.00035	0.00031	0.00004	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000060	0.000056	0.000003	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: 1658450) - continued											
VA24C4068-001	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: 1666367)											
VA24C4231-003	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000087	0.0000098	0.0000012	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1658637)											
VA24C4184-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00053	0.00056	0.00003	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0703	0.0709	0.902%	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	0.0000794	0.0000827	4.09%	20%	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	112	112	0.0890%	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	0.00076	0.00078	0.00002	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00027	0.00027	0.000001	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.020	0.020	0.0006	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	0.0069	0.0068	0.00006	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	31.5	31.6	0.321%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	1.51	1.53	1.53%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000816	0.000805	1.27%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00259	0.00263	0.00004	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	2.97	3.01	1.20%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00177	0.00161	0.00016	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	5.62	5.62	0.0251%	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	4.97	4.94	0.760%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.363	0.355	2.27%	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: 1658637) - continued											
VA24C4184-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	33.8	32.2	4.80%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	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	0.00197	0.00194	1.71%	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: 1666339)											
VA24C4203-010	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1658556)											
VA24C3960-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	0.00087	0.00091	0.00004	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: 1655953)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1664950)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1664960)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1655548)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1655549)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1655551)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1655956)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1655957)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1655958)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1655959)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1655960)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1655961)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon (QCLot: 1655552)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1655230)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1658450)						
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: 1658450) - 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: 1666367)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1658637)						
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: 1658637) - 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: 1666339)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1658556)						
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: 1655953)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	102	85.0	115	----
Physical Tests (QCLot: 1664950)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	100	85.0	115	----
Physical Tests (QCLot: 1664960)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	111	85.0	115	----
Anions and Nutrients (QCLot: 1655548)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	94.2	80.0	120	----
Anions and Nutrients (QCLot: 1655549)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	99.7	85.0	115	----
Anions and Nutrients (QCLot: 1655551)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	88.5	75.0	125	----
Anions and Nutrients (QCLot: 1655956)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1655957)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1655958)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1655959)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	101	85.0	115	----
Anions and Nutrients (QCLot: 1655960)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1655961)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	100	90.0	110	----
Organic / Inorganic Carbon (QCLot: 1655552)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	96.5	80.0	120	----
Total Sulfides (QCLot: 1655230)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	99.5	80.0	120	----
Total Metals (QCLot: 1658450)									



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: 1658450) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	107	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	101	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	105	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	103	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	104	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	104	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	109	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	110	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	98.6	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	101	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	110	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	105	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	108	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	111	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	106	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	104	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	96.2	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	107	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	105	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	100	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	101	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	103	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	103	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	107	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	105	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: 1658450) - continued									
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	104	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	103	80.0	120	----
Total Metals (QCLot: 1666367)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	94.4	80.0	120	----
Dissolved Metals (QCLot: 1658637)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	101	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	101	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	105	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	98.9	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	100	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	103	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	96.6	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	101	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	99.0	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	99.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	97.9	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	99.8	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	98.3	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	88.2	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	96.9	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	97.8	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	102	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	98.3	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	101	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	98.4	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	101	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	99.8	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	103	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	94.7	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	109	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	91.4	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	101	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	83.0	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1658637) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	97.3	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	97.9	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	95.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	97.9	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	95.7	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	97.4	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	97.3	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	99.9	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	95.9	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	98.4	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	95.0	80.0	120	----
Speciated Metals (QCLot: 1658556)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	99.6	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: 1655548)										
KS2403751-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0482 mg/L	0.05 mg/L	96.4	70.0	130	----
Anions and Nutrients (QCLot: 1655549)										
KS2403751-002	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0994 mg/L	0.1 mg/L	99.4	75.0	125	----
Anions and Nutrients (QCLot: 1655551)										
VA24C4202-002	Anonymous	Nitrogen, total	7727-37-9	E366	0.355 mg/L	0.4 mg/L	88.8	70.0	130	----
Anions and Nutrients (QCLot: 1655956)										
VA24C4161-001	Anonymous	Fluoride	16984-48-8	E235.F	1.02 mg/L	1 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1655957)										
VA24C4161-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1655958)										
VA24C4161-001	Anonymous	Chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1655959)										
VA24C4161-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.500 mg/L	0.5 mg/L	99.9	75.0	125	----
Anions and Nutrients (QCLot: 1655960)										
VA24C4161-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.507 mg/L	0.5 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1655961)										
VA24C4161-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.52 mg/L	2.5 mg/L	101	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1655552)										
VA24C4246-002	SQU DS-1	Carbon, dissolved organic [DOC]	----	E358-L	5.00 mg/L	5 mg/L	100	70.0	130	----
Total Sulfides (QCLot: 1655230)										
VA24C3826-002	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.221 mg/L	0.2 mg/L	110	75.0	125	----
Total Metals (QCLot: 1658450)										
VA24C4068-002	Anonymous	Aluminum, total	7429-90-5	E420	0.185 mg/L	0.2 mg/L	92.5	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0200 mg/L	0.02 mg/L	100	70.0	130	----
		Barium, total	7440-39-3	E420	0.0184 mg/L	0.02 mg/L	92.0	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0386 mg/L	0.04 mg/L	96.6	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00967 mg/L	0.01 mg/L	96.7	70.0	130	----
		Boron, total	7440-42-8	E420	0.104 mg/L	0.1 mg/L	104	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00379 mg/L	0.004 mg/L	94.7	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00947 mg/L	0.01 mg/L	94.7	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0394 mg/L	0.04 mg/L	98.6	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: 1658450) - continued										
VA24C4068-002	Anonymous	Cobalt, total	7440-48-4	E420	0.0200 mg/L	0.02 mg/L	100	70.0	130	----
		Copper, total	7440-50-8	E420	0.0195 mg/L	0.02 mg/L	97.5	70.0	130	----
		Iron, total	7439-89-6	E420	1.90 mg/L	2 mg/L	95.1	70.0	130	----
		Lead, total	7439-92-1	E420	0.0187 mg/L	0.02 mg/L	93.3	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0946 mg/L	0.1 mg/L	94.6	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0184 mg/L	0.02 mg/L	92.2	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0398 mg/L	0.04 mg/L	99.5	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.84 mg/L	10 mg/L	98.4	70.0	130	----
		Potassium, total	7440-09-7	E420	4.07 mg/L	4 mg/L	102	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0367 mg/L	0.04 mg/L	91.8	70.0	130	----
		Silicon, total	7440-21-3	E420	9.32 mg/L	10 mg/L	93.2	70.0	130	----
		Silver, total	7440-22-4	E420	0.00370 mg/L	0.004 mg/L	92.4	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	17.5 mg/L	20 mg/L	87.4	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0376 mg/L	0.04 mg/L	93.9	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00359 mg/L	0.004 mg/L	89.7	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0194 mg/L	0.02 mg/L	97.1	70.0	130	----
		Tin, total	7440-31-5	E420	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0382 mg/L	0.04 mg/L	95.4	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0192 mg/L	0.02 mg/L	95.8	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00383 mg/L	0.004 mg/L	95.8	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0972 mg/L	0.1 mg/L	97.2	70.0	130	----
		Zinc, total	7440-66-6	E420	0.375 mg/L	0.4 mg/L	93.7	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0374 mg/L	0.04 mg/L	93.5	70.0	130	----
Total Metals (QCLot: 1666367)										
VA24C4231-004	Anonymous	Mercury, total	7439-97-6	E508	0.0000923 mg/L	0 mg/L	92.3	70.0	130	----
Dissolved Metals (QCLot: 1658637)										
VA24C4184-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	3.83 mg/L	4 mg/L	95.7	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.384 mg/L	0.4 mg/L	95.9	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.414 mg/L	0.4 mg/L	103	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.386 mg/L	0.4 mg/L	96.6	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.737 mg/L	0.8 mg/L	92.1	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.195 mg/L	0.2 mg/L	97.4	70.0	130	----
		Boron, dissolved	7440-42-8	E421	1.82 mg/L	2 mg/L	91.1	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.0810 mg/L	0.08 mg/L	101	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.206 mg/L	0.2 mg/L	103	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.783 mg/L	0.8 mg/L	97.8	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.396 mg/L	0.4 mg/L	98.9	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: 1658637) - continued										
VA24C4184-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.384 mg/L	0.4 mg/L	96.1	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.369 mg/L	0.4 mg/L	92.3	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	1.77 mg/L	2 mg/L	88.5	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	0.396 mg/L	0.4 mg/L	98.9	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.794 mg/L	0.8 mg/L	99.3	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	195 mg/L	200 mg/L	97.3	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	77.2 mg/L	80 mg/L	96.5	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.394 mg/L	0.4 mg/L	98.5	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.821 mg/L	0.8 mg/L	103	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	189 mg/L	200 mg/L	94.4	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.0777 mg/L	0.08 mg/L	97.2	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	40.0 mg/L	40 mg/L	99.9	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.787 mg/L	0.8 mg/L	98.4	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.0706 mg/L	0.08 mg/L	88.2	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.371 mg/L	0.4 mg/L	92.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.383 mg/L	0.4 mg/L	95.8	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.762 mg/L	0.8 mg/L	95.3	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.370 mg/L	0.4 mg/L	92.6	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.0731 mg/L	0.08 mg/L	91.4	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	1.98 mg/L	2 mg/L	98.9	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	7.72 mg/L	8 mg/L	96.4	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.801 mg/L	0.8 mg/L	100	70.0	130	----
Dissolved Metals (QCLot: 1666339)										
VA24C4203-011	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000953 mg/L	0 mg/L	95.3	70.0	130	----
Speciated Metals (QCLot: 1658556)										
VA24C3960-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0392 mg/L	0.04 mg/L	97.9	70.0	130	----



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 17 -

Page 1 of 1

www.alsglobal.com

Main form containing sections for Report To, Report Format, Select Service Level, Invoice To, Project Information, ALS Lab Work Order, and a large data table for sample analysis with columns for parameters like metals, mercury, and various nutrients.

Environmental Division Vancouver Work Order Reference VA24C4246



Telephone: +1 604 253 4188

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

The metals + mercury bottles did not have preservatives inside. Triton Project # 11964

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen, Ice Packs, Cooling Initiated, SIF Observations, Custody seal intact

INITIAL COOLER TEMPERATURES °C, FINAL COOLER TEMPERATURES °C

PLEASE (client use)

INITIAL SHIPMENT RECEPTION (lab use only)

FINAL SHIPMENT RECEPTION (lab use only)

Date/Time received and received by information for both initial and final shipment reception.

IONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SEP1 2017 FROM



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

Reporting Week	Sept 16 th to Sept 22 nd , 2024
Report #	26
Appendix B	B-4

BCR Site Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-16-Chycoski-D648C

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	09/16/2024	Location:	BC Rail Site
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.725177 -123.164347
Temperature(c):	Low 12 High 21	Permit:	AE 111824
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 09:37:00 **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

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

Chain of Custody (COC) / Analytical Request Form

ALS ENVIRONMETAL Canada Toll Free: 1 800 565 9878

Page 1 of 2

Project Information: 1730-111 West George Street, Vancouver, BC V6Y 2R6

ALS Reference # (See note)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type
DSU DS 1	cond 41.8 µS/cm temp 9.9 °C	06-Sep-24	9:29	Water
DSU DS 1	cond 41.6 µS/cm temp 9.8 °C	11-Sep-24	9:37	Water

Drinking Water (DW) Samples (subject used)

Special Instructions: 1. Specify Criteria to test per request by checking on the program for better understanding. COC used.

Received by: [Signature] Date: 16 Sept 24

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



2024-9-16-Chycoski-D648C

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

2024-9-16-Chycoski-77814

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge
Inspection Date:	09/16/2024	Location:	BC Rail Site
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.726866 -123.163912
Temperature(c):	Low 12 High 21	Permit:	AE 111824
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 09:09:06 **Flow Volume (visual):** moderate

Notes: Logger was beached on boulders in river bed.
Metals and mercury samples didn't have preservatives in the bottles.

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

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

Chain of Custody (COC) / Analytical Request Form		Affix ALS barcode label here		COC Number: 17	
Report To Client: <i>Water Environmental</i> Contact: <i>Pauline Shafiq</i> Phone: <i>604-770-1000</i> Company address (please write below as far as the report) Street: <i>1730-111 West George Street</i> City/Town/Village: <i>Vancouver, BC</i> Postal Code: <i>V6Y 2K6</i> Website: <i>www.waterbc.com</i> Name of Project: <i>Water at Report To</i> Copy of Invoice with Report: <i>11-192-27-40</i>		Project Information Project Name: <i>1000-1001-1002-1003</i> Job #: <i>1189</i> Job Description: <i>1000-1001-1002-1003</i> Job Location: <i>1000-1001-1002-1003</i>		ALS Account # / Queue # ALS Account #: <i>1000-1001-1002-1003</i> Queue #: <i>1189</i> ALS Job #: <i>1000-1001-1002-1003</i> Job #: <i>1000-1001-1002-1003</i> Job Location: <i>1000-1001-1002-1003</i>	
ALS Lab Work Order # (DO NOT WRITE) Sample Identification and/or Coordinates (This description will appear on the report) Sample ID: <i>1000-1001-1002-1003</i> Date: <i>11-Sep-24</i> Time: <i>9:09</i> Sample Type: <i>Water</i> Container: <i>1000-1001-1002-1003</i> Sample ID: <i>1000-1001-1002-1003</i> Date: <i>11-Sep-24</i> Time: <i>9:37</i> Sample Type: <i>Water</i> Container: <i>1000-1001-1002-1003</i>		ALS Contact Name: <i>Pauline Shafiq</i> Phone: <i>604-770-1000</i> Email: <i>Pauline.Shafiq@waterbc.com</i> Job #: <i>1189</i> Job Location: <i>1000-1001-1002-1003</i>		ALS Job Details Job #: <i>1189</i> Job Location: <i>1000-1001-1002-1003</i> Job Description: <i>1000-1001-1002-1003</i> Job Status: <i>1000-1001-1002-1003</i> Job Date: <i>11-Sep-24</i> Job Time: <i>9:09</i> Job Sample Type: <i>Water</i> Job Container: <i>1000-1001-1002-1003</i> Job Sample ID: <i>1000-1001-1002-1003</i> Job Date: <i>11-Sep-24</i> Job Time: <i>9:37</i> Job Sample Type: <i>Water</i> Job Container: <i>1000-1001-1002-1003</i> Job Sample ID: <i>1000-1001-1002-1003</i>	
Drinking Water (DW) Samples (subject used) Are Samples for Drinking Water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are Samples for Industrial/Commercial use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are Samples for Other use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Instructions (Specify criteria to add or report by clicking on the program for better identification. COC used) <input type="checkbox"/> None <input type="checkbox"/> 1000-1001-1002-1003 <input type="checkbox"/> 1000-1001-1002-1003 <input type="checkbox"/> 1000-1001-1002-1003 <input type="checkbox"/> 1000-1001-1002-1003 <input type="checkbox"/> 1000-1001-1002-1003		Sampler's Declaration (See reverse side) I, <i>Pauline Shafiq</i> , declare that I am the person who collected the sample and that the sample is representative of the location and time specified on the report. Signature: <i>Pauline Shafiq</i> Date: <i>11-Sep-24</i> Time: <i>9:09</i>	
Signature Client: <i>Pauline Shafiq</i> Date: <i>11-Sep-24</i> Time: <i>9:09</i>		Signature ALS: <i>Pauline Shafiq</i> Date: <i>11-Sep-24</i> Time: <i>9:09</i>		Signature Receiver: <i>Pauline Shafiq</i> Date: <i>11-Sep-24</i> Time: <i>9:09</i>	

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

Photos



Photo: 5

Location: SQU US 1

Description: Sonde was beached on rock when arriving onsite. Placed sonde back in river when finished cleaning.



2024-9-16-Chycoski-77814

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 16 th to Sept 22 nd , 2024
	Report #	26
	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 16 th to Sept 22 nd , 2024
Report #	26
Appendix C	C-2

Woodfibre Site Sample Analysis



RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 4800 Triton Environmental Consultants Ltd., Vancouver
Client Project Name & Number: 11964-TASK 40-PHASE 3C-4C

Job Number: C473372

Test Result:

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

Sample Name : WLNG EOP

Description: Cloudy white, translucent
Sample Number: CVQ878-01
Sample Collected: Sep 17, 2024 12:28 PM Sampling Method : N/A Site Collection: N/A
Sample Collected By: N/A Volume Received: 4 x 10CB Avg Temp Arrival: 14 °C Storage: 2-6°C
Sample Received: Sep 17, 2024 04:51 PM pH: 7.4 Dissolved Oxygen: 10.0 mg/L
Analysis Start : Sep 19, 2024 11:50 AM Temperature : 14 °C Sample Conductance: 158 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: 21 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 : 30 min. Rate of Aeration : 6.5±1 mL/(min*L)
Test Volume : 15 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 : Aqua Farm

Culture Temperature : 15 ± 2 °C Weight (Mean) +- SD : 0.4 ± 0.1 g Length (Mean) +- SD : 3.70 ± 0.31 cm
Culture Water Renewal : ≥ 1L/min/kg fish Weight (Range) : 0.2 – 0.6 g Length (Range) : 3.20 – 4.20 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: Sep 05, 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.

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

Handwritten signature of Marie-Eve O'Toole

Verified By : Marie-Eve O'Toole, Scientist

Date: Oct 02, 2024 02:16 PM

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 16 th to Sept 22 nd , 2024
	Report #	26
	Appendix C	C-3

Woodfibre Site Sample Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order : **VA24C4468**
Client : **Triton Environmental Consultants Ltd.**
Contact :
Address :

Telephone :
Project :
PO : 11964-Task 30-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 11
Laboratory : ALS Environmental - Vancouver
Account Manager :
Address :

Telephone :
Date Samples Received : 17-Sep-2024 17:30
Date Analysis Commenced : 18-Sep-2024
Issue Date : 27-Sep-2024 06:42

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Organics, Burnaby, British Columbia
		Inorganics, Edmonton, Alberta
		Metals, Burnaby, British Columbia
		Organics, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Inorganics, Waterloo, Ontario
		Metals, Waterloo, Ontario
		Administration, Burnaby, British Columbia
		Metals, 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.



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG EOP	---	---	---	---
(Matrix: Water)					Client sampling date / time	17-Sep-2024 12:28	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Field Tests										
Conductivity, field	---	EF001/VA	0.10	µS/cm	171.00	---	---	---	---	
pH, field	---	EF001/VA	0.10	pH units	7.06	---	---	---	---	
Temperature, field	---	EF001/VA	0.10	°C	16.1	---	---	---	---	
Physical Tests										
Hardness (as CaCO3), dissolved	---	EC100/VA	0.60	mg/L	59.5	---	---	---	---	
Hardness (as CaCO3), from total Ca/Mg	---	EC100A/VA	0.60	mg/L	59.7	---	---	---	---	
Solids, total dissolved [TDS]	---	E162/VA	10	mg/L	92	---	---	---	---	
Solids, total suspended [TSS]	---	E160/VA	3.0	mg/L	5.6	---	---	---	---	
Alkalinity, total (as CaCO3)	---	E290/VA	2.0	mg/L	68.9	---	---	---	---	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0370	---	---	---	---	
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	2.50	---	---	---	---	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.233	---	---	---	---	
Nitrate (as N)	14797-55-8	E235.NO3-L/V A	0.0050	mg/L	0.0342	---	---	---	---	
Nitrite (as N)	14797-65-0	E235.NO2-L/V A	0.0010	mg/L	0.0068	---	---	---	---	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.474	---	---	---	---	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0072	---	---	---	---	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	6.67	---	---	---	---	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	---	E358-L/VA	0.50	mg/L	1.14	---	---	---	---	
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	0.284	---	---	---	---	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00113	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 12:28	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					Result	---	---	---	---	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00153	---	---	---	---	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.0170	---	---	---	---	
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	0.022	---	---	---	---	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	0.0000483	---	---	---	---	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	22.0	---	---	---	---	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000081	---	---	---	---	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	---	---	---	---	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	0.00017	---	---	---	---	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00099	---	---	---	---	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.282	---	---	---	---	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000386	---	---	---	---	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0114	---	---	---	---	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	1.16	---	---	---	---	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0335	---	---	---	---	
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	---	---	---	---	
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.0209	---	---	---	---	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	0.00084	---	---	---	---	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	---	---	---	---	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	4.10	---	---	---	---	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00725	---	---	---	---	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000094	---	---	---	---	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	6.57	---	---	---	---	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	---	---	---	---	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	5.63	---	---	---	---	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0545	---	---	---	---	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	2.17	---	---	---	---	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	0.000031	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 12:28	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					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	0.0106	---	---	---	---	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	0.00056	---	---	---	---	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.00380	---	---	---	---	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	<0.00050	---	---	---	---	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0095	---	---	---	---	
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	0.0356	---	---	---	---	
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	0.00106	---	---	---	---	
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00126	---	---	---	---	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.0120	---	---	---	---	
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	0.023	---	---	---	---	
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	0.0000315	---	---	---	---	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	22.1	---	---	---	---	
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	0.00012	---	---	---	---	
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00034	---	---	---	---	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.012	---	---	---	---	
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	<0.000050	---	---	---	---	
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	0.0114	---	---	---	---	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	1.04	---	---	---	---	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.0267	---	---	---	---	
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L	<0.0000050	---	---	---	---	
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L	0.0208	---	---	---	---	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	0.00069	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 12:28	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					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	3.45	---	---	---	---	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00622	---	---	---	---	
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	0.000081	---	---	---	---	
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	6.21	---	---	---	---	
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L	<0.000010	---	---	---	---	
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L	5.33	---	---	---	---	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0511	---	---	---	---	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	1.83	---	---	---	---	
Tellurium, dissolved	13494-80-9	E421/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L	0.000020	---	---	---	---	
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	0.00044	---	---	---	---	
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	0.00047	---	---	---	---	
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.00370	---	---	---	---	
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	<0.00050	---	---	---	---	
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	0.0053	---	---	---	---	
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	---	---	---	---	
Dissolved mercury filtration location	----	EP509/VA	-	-	Laboratory	---	---	---	---	
Dissolved metals filtration location	----	EP421/VA	-	-	Laboratory	---	---	---	---	
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	17-Sep-2024 12:28	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					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	1.21	---	---	---	---	
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	0.50	---	---	---	---	
Toluene	108-88-3	E611C/VA	0.40	µg/L	<0.40	---	---	---	---	
Xylene, m+p-	179601-23-1	E611C/VA	0.40	µg/L	<0.40	---	---	---	---	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNQ EOP	----	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 12:28	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					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	%	81.9	---	---	---	---	
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/ VA	1.0	%	92.3	---	---	---	---	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611C/VA	1.0	%	98.9	---	---	---	---	
Difluorobenzene, 1,4-	540-36-3	E611C/VA	1.0	%	99.7	---	---	---	---	
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	17-Sep-2024 12:28	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4468-001	-----	-----	-----	-----	
					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	0.083	---	---	---	---	
Methylnaphthalene, 2-	91-57-6	E641A/VA	0.010	µg/L	0.065	---	---	---	---	
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	%	90.9	---	---	---	---	
Naphthalene-d8	1146-65-2	E641A/VA	0.1	%	101	---	---	---	---	
Phenanthrene-d10	1517-22-2	E641A/VA	0.1	%	97.5	---	---	---	---	
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	%	101	---	---	---	---	

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 : VA24C4468</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 30-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 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 : 17-Sep-2024 17:30</p> <p>Issue Date : 27-Sep-2024 06:42</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
- 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

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



Analysis Holding Time Compliance

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

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

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

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

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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) WLNG EOP	E562	17-Sep-2024	21-Sep-2024	28 days	4 days	✔	21-Sep-2024	28 days	4 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG EOP	E298	17-Sep-2024	22-Sep-2024	28 days	5 days	✔	24-Sep-2024	28 days	7 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG EOP	E235.Br-L	17-Sep-2024	19-Sep-2024	28 days	2 days	✔	19-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG EOP	E235.Cl	17-Sep-2024	19-Sep-2024	28 days	2 days	✔	19-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG EOP	E235.F	17-Sep-2024	19-Sep-2024	28 days	2 days	✔	19-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO3-L	17-Sep-2024	19-Sep-2024	3 days	2 days	✔	19-Sep-2024	3 days	2 days	✔
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO2-L	17-Sep-2024	19-Sep-2024	3 days	2 days	✔	19-Sep-2024	3 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	
Anions and Nutrients : Sulfate in Water by IC										
HDPE WLNG EOP	E235.SO4	17-Sep-2024	19-Sep-2024	28 days	2 days	✓	19-Sep-2024	28 days	2 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) WLNG EOP	E366	17-Sep-2024	22-Sep-2024	28 days	5 days	✓	23-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	17-Sep-2024	22-Sep-2024	28 days	5 days	✓	23-Sep-2024	28 days	6 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) WLNG EOP	E509	17-Sep-2024	25-Sep-2024	28 days	8 days	✓	25-Sep-2024	28 days	8 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) WLNG EOP	E421	17-Sep-2024	18-Sep-2024	180 days	1 days	✓	19-Sep-2024	180 days	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) WLNG EOP	EF001	17-Sep-2024	----	----	----		20-Sep-2024	----	3 days	
Glycols : Glycols (4 analytes) by GC-FID										
Glass vial WLNG EOP	E680E	17-Sep-2024	19-Sep-2024	7 days	2 days	✓	20-Sep-2024	40 days	1 days	✓
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E601A	17-Sep-2024	25-Sep-2024	14 days	8 days	✓	25-Sep-2024	40 days	0 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate) WLNG EOP	E581.VH+F1	17-Sep-2024	24-Sep-2024	14 days	7 days	✓	24-Sep-2024	14 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) WLNG EOP	E358-L	17-Sep-2024	22-Sep-2024	28 days	5 days	✓	22-Sep-2024	28 days	5 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE WLNG EOP	E290	17-Sep-2024	19-Sep-2024	14 days	2 days	✓	20-Sep-2024	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE WLNG EOP	E162	17-Sep-2024	----	----	----		23-Sep-2024	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE WLNG EOP	E160	17-Sep-2024	----	----	----		23-Sep-2024	7 days	6 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E641A	17-Sep-2024	25-Sep-2024	14 days	8 days	✓	25-Sep-2024	40 days	0 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
UV-inhibited HDPE - total (sodium hydroxide) WLNG EOP	E532	17-Sep-2024	----	----	----		20-Sep-2024	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) WLNG EOP	E508	17-Sep-2024	25-Sep-2024	28 days	8 days	✓	25-Sep-2024	28 days	8 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG EOP	E420	17-Sep-2024	23-Sep-2024	180 days	6 days	✓	25-Sep-2024	180 days	8 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG EOP	E395	17-Sep-2024	----	----	----		19-Sep-2024	7 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	
Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS										
Glass vial (sodium bisulfate) WLNG EOP	E611C	17-Sep-2024	24-Sep-2024	14 days	7 days	✔	24-Sep-2024	14 days	7 days	✔

Legend & Qualifier Definitions

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



Quality Control Parameter Frequency Compliance

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

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

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1661013	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1666174	1	17	5.8	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1661018	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1661016	1	16	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1671933	1	1	100.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1658588	1	16	6.2	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1666175	1	5	20.0	5.0	✓
Fluoride in Water by IC	E235.F	1661017	1	8	12.5	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1661246	1	2	50.0	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1661019	1	13	7.6	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1661020	1	13	7.6	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1665391	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1661015	1	18	5.5	5.0	✓
TDS by Gravimetry	E162	1668040	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1662683	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1664010	1	18	5.5	5.0	✓
Total Nitrogen by Colourimetry	E366	1666176	1	12	8.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1666177	1	7	14.2	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	1668031	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1668642	1	19	5.2	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1668643	1	7	14.2	5.0	✓
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1661013	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1666174	1	17	5.8	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1671111	1	13	7.6	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1661018	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1661016	1	16	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1671933	1	1	100.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1658588	1	16	6.2	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1666175	1	5	20.0	5.0	✓
Fluoride in Water by IC	E235.F	1661017	1	8	12.5	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1661246	1	2	50.0	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1661019	1	13	7.6	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1661020	1	13	7.6	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	1671112	1	14	7.1	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1665391	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1661015	1	18	5.5	5.0	✓
TDS by Gravimetry	E162	1668040	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1662683	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1664010	1	18	5.5	5.0	✓
Total Nitrogen by Colourimetry	E366	1666176	1	12	8.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1666177	1	7	14.2	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	1668031	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1668642	1	19	5.2	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1668643	1	7	14.2	5.0	✓
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1661013	1	10	10.0	5.0	✓
Ammonia by Fluorescence	E298	1666174	1	17	5.8	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1671111	1	13	7.6	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1661018	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1661016	1	16	6.2	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1671933	1	1	100.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1658588	1	16	6.2	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1666175	1	5	20.0	5.0	✓
Fluoride in Water by IC	E235.F	1661017	1	8	12.5	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1661246	1	2	50.0	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1661019	1	13	7.6	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1661020	1	13	7.6	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1671112	1	14	7.1	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1665391	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1661015	1	18	5.5	5.0	✓
TDS by Gravimetry	E162	1668040	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1662683	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1664010	1	18	5.5	5.0	✓
Total Nitrogen by Colourimetry	E366	1666176	1	12	8.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1666177	1	7	14.2	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	1668031	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1668642	1	19	5.2	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1668643	1	7	14.2	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)							
Ammonia by Fluorescence	E298	1666174	1	17	5.8	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1661018	1	5	20.0	5.0	✔
Chloride in Water by IC	E235.Cl	1661016	1	16	6.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1671933	0	1	0.0	5.0	✘
Dissolved Metals in Water by CRC ICPMS	E421	1658588	1	16	6.2	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1666175	1	5	20.0	5.0	✔
Fluoride in Water by IC	E235.F	1661017	1	8	12.5	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1661019	1	13	7.6	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1661020	1	13	7.6	5.0	✔
Phenols (4AAP) in Water by Colorimetry	E562	1665391	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1661015	1	18	5.5	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1662683	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1664010	1	18	5.5	5.0	✔
Total Nitrogen by Colourimetry	E366	1666176	1	12	8.3	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1666177	1	7	14.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1668642	1	19	5.2	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1668643	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.
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 - 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.



<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.
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 : **VA24C4468**
Client : Triton Environmental Consultants Ltd.
Contact : [Redacted]
Address : [Redacted]
Telephone : [Redacted]
Project : 11964
PO : 11964-Task 30-Phase 3C-4C
C-O-C number : [Redacted]
Sampler : [Redacted]
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 23
Laboratory : [Redacted]
Account Manager : [Redacted]
Address : [Redacted]
 Burnaby, British Columbia Canada V5A 1W9
Telephone : +1 604 253 4188
Date Samples Received : 17-Sep-2024 17:30
Date Analysis Commenced : 18-Sep-2024
Issue Date : 27-Sep-2024 06:42

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Laboratory Department
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Organics, Burnaby, British Columbia
[Redacted]	[Redacted]	Edmonton Inorganics, Edmonton, Alberta
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Organics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Waterloo Inorganics, Waterloo, Ontario
[Redacted]	[Redacted]	Waterloo Metals, Waterloo, Ontario
[Redacted]	[Redacted]	Vancouver Administration, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia



General Comments

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

Key :

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

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

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

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

Workorder Comments

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



Laboratory Duplicate (DUP) Report

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

Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1661013)											
VA24C4552-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	7.8	7.7	0.1	Diff <2x LOR	----
Physical Tests (QC Lot: 1668031)											
FJ2402818-003	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	4.0	5.2	1.2	Diff <2x LOR	----
Physical Tests (QC Lot: 1668040)											
FJ2402818-003	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	1190	1130	5.60%	20%	----
Anions and Nutrients (QC Lot: 1661015)											
VA24C4468-001	WLNG EOP	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	6.67	6.63	0.600%	20%	----
Anions and Nutrients (QC Lot: 1661016)											
VA24C4468-001	WLNG EOP	Chloride	16887-00-6	E235.Cl	0.50	mg/L	2.50	2.50	0.009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1661017)											
VA24C4468-001	WLNG EOP	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.233	0.231	0.536%	20%	----
Anions and Nutrients (QC Lot: 1661018)											
VA24C4468-001	WLNG EOP	Bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1661019)											
VA24C4468-001	WLNG EOP	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0342	0.0327	0.0015	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1661020)											
VA24C4468-001	WLNG EOP	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	0.0068	0.0069	0.00003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1666174)											
VA24C4468-001	WLNG EOP	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0370	0.0372	0.0003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1666176)											
VA24C4470-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.300	mg/L	7.63	7.76	1.62%	20%	----
Anions and Nutrients (QC Lot: 1666177)											
VA24C4468-001	WLNG EOP	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0072	0.0072	0.00009	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1666175)											
VA24C4468-001	WLNG EOP	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	1.14	1.16	0.02	Diff <2x LOR	----
Total Sulfides (QC Lot: 1660216)											
VA24C4468-001	WLNG EOP	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1664010)											
KS2403720-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0100	mg/L	0.0178	0.0156	0.0022	Diff <2x LOR	----
		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: 1664010) - continued											
KS2403720-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00412	0.00407	1.19%	20%	----
		Barium, total	7440-39-3	E420	0.0200	mg/L	0.0339	0.0328	0.00119	Diff <2x LOR	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.100	mg/L	0.126	0.125	0.0004	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	55.2	54.5	1.36%	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	0.00200	mg/L	<0.00200	<0.00200	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00010	0.00011	0.000006	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00100	mg/L	0.00954	0.00915	0.00039	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.030	mg/L	<0.030	<0.030	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000500	mg/L	<0.000500	<0.000500	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0017	0.0017	0.00004	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	45.9	44.6	2.74%	20%	----
		Manganese, total	7439-96-5	E420	0.00200	mg/L	0.00565	0.00545	0.00020	Diff <2x LOR	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00444	0.00438	1.47%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00148	0.00140	0.00007	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.777	0.755	2.92%	20%	----
		Potassium, total	7440-09-7	E420	0.100	mg/L	4.35	4.43	1.93%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00163	0.00150	0.00012	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	14.1	13.7	2.72%	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	2.00	mg/L	108	105	2.42%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	1.65	1.64	0.846%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	12.2	11.8	2.82%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	0.00023	0.00022	0.00001	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00030	mg/L	0.00071	0.00059	0.00012	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000100	mg/L	0.00638	0.00631	1.13%	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: 1664010) - continued											
KS2403720-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.0313	0.0309	1.16%	20%	----
		Zinc, total	7440-66-6	E420	0.0500	mg/L	0.0917	0.0884	0.0034	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	0.00032	0.00030	0.00002	Diff <2x LOR	----
Total Metals (QC Lot: 1671218)											
FJ2402799-005	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1658588)											
YL2401483-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0049	0.0048	0.0001	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00038	0.00037	0.000008	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00067	0.00060	0.00007	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0341	0.0332	2.67%	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	0.922	0.959	3.91%	20%	----
		Cadmium, dissolved	7440-43-9	E421	0.0000100	mg/L	<0.0000100	<0.0000100	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	269	273	1.52%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000127	0.000127	0.0934%	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	0.00048	0.00048	0.000002	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00152	0.00150	0.00002	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.021	0.021	0.00002	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	0.0734	0.0734	0.000270%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	69.9	70.8	1.16%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0341	0.0331	2.90%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.0549	0.0552	0.438%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.0232	0.0233	0.444%	20%	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	12.4	12.5	0.878%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.0281	0.0281	0.146%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000329	0.000302	0.000028	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.70	4.68	0.370%	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	266	267	0.518%	20%	----		
Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	5.53	5.47	1.14%	20%	----		



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals (QC Lot: 1658588) - continued											
YL2401483-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	141	142	0.934%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	0.00029	0.00033	0.00003	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	0.000032	0.000032	0.0000001	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	0.00060	0.00061	0.000006	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.0187	0.0198	5.72%	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: 1671933)											
VA24C4468-001	WLNG EOP	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1662683)											
HA2402244-001	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: 1665391)											
SK2405139-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1668643)											
VA24C4468-001	WLNG EOP	Benzene	71-43-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroethane	75-00-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloromethane	74-87-3	E611C	5.0	µg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds (QC Lot: 1668643) - continued											
VA24C4468-001	WLNQ EOP	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	----
		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	0.005	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611C	0.50	µg/L	1.21	1.17	0.04	Diff <2x LOR	----
		Toluene	108-88-3	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
Xylene, o-	95-47-6	E611C	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----		
Hydrocarbons (QC Lot: 1668642)											
VA24C4468-001	WLNQ EOP	VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	<100	0.0%	30%	----
Glycols (QC Lot: 1661246)											
VA24C4468-001	WLNQ EOP	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: 1661013)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1668031)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1668040)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1661015)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1661016)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1661017)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1661018)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1661019)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1661020)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1666174)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1666176)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1666177)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Organic / Inorganic Carbon (QCLot: 1666175)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1660216)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1664010)						
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: 1664010) - 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: 1671218)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1658588)						
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: 1658588) - 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: 1671933)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1662683)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1665391)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Volatile Organic Compounds (QCLot: 1668643)						
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: 1668643) - 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: 1668642)						
VHw (C6-C10)	---	E581.VH+F1	100	µg/L	<100	---
Hydrocarbons (QCLot: 1671111)						
EPH (C10-C19)	---	E601A	250	µg/L	<250	---
EPH (C19-C32)	---	E601A	250	µg/L	<250	---
Polycyclic Aromatic Hydrocarbons (QCLot: 1671112)						
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**

<i>Analyte</i>	<i>CAS Number</i>	<i>Method</i>	<i>LOR</i>	<i>Unit</i>	<i>Result</i>	<i>Qualifier</i>
Polycyclic Aromatic Hydrocarbons (QCLot: 1671112) - 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: 1661246)						
Diethylene glycol	111-46-6	E680E	5	mg/L	<5.0	----
Ethylene glycol	107-21-1	E680E	5	mg/L	<5.0	----
Propylene glycol, 1,2-	57-55-6	E680E	5	mg/L	<5.0	----
Triethylene glycol	112-27-6	E680E	5	mg/L	<5.0	----



Laboratory Control Sample (LCS) Report

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

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1661013)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	100	85.0	115	----
Physical Tests (QCLot: 1668031)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	87.3	85.0	115	----
Physical Tests (QCLot: 1668040)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1661015)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1661016)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1661017)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1661018)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1661019)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1661020)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1666174)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1666176)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	100	75.0	125	----
Anions and Nutrients (QCLot: 1666177)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	92.7	80.0	120	----
Organic / Inorganic Carbon (QCLot: 1666175)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	101	80.0	120	----
Total Sulfides (QCLot: 1660216)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	102	80.0	120	----
Total Metals (QCLot: 1664010)									



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: 1664010) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	104	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	100	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	108	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	99.3	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	97.8	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	95.5	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	109	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	103	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	108	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	99.3	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	99.9	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	104	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	101	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	101	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	106	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	101	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	106	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	92.2	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	105	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	103	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	95.6	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	103	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	98.2	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	97.3	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	100	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	96.4	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	96.2	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	98.2	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
Total Metals (QCLot: 1664010) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	110	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	99.1	80.0	120	----
Total Metals (QCLot: 1671218)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	92.6	80.0	120	----
Dissolved Metals (QCLot: 1658588)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	102	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	100	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	103	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	99.9	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	96.9	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	103	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	92.2	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	98.7	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	99.9	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	97.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	100	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	99.4	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	99.7	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	98.5	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	98.3	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	99.2	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	99.9	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	105	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	93.1	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	95.4	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	97.9	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	105	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	93.9	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	99.7	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	99.7	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	88.9	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: 1658588) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	96.8	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	97.9	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	101	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	101	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	97.1	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	99.6	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	101	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	94.1	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	98.1	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	97.4	80.0	120	----
Speciated Metals (QCLot: 1662683)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	95.8	80.0	120	----
Aggregate Organics (QCLot: 1665391)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	95.2	85.0	115	----
Volatile Organic Compounds (QCLot: 1668643)									
Benzene	71-43-2	E611C	0.5	µg/L	100 µg/L	94.0	70.0	130	----
Bromodichloromethane	75-27-4	E611C	0.5	µg/L	100 µg/L	95.6	70.0	130	----
Bromoform	75-25-2	E611C	0.5	µg/L	100 µg/L	102	70.0	130	----
Carbon tetrachloride	56-23-5	E611C	0.5	µg/L	100 µg/L	91.9	70.0	130	----
Chlorobenzene	108-90-7	E611C	0.5	µg/L	100 µg/L	98.3	70.0	130	----
Chloroethane	75-00-3	E611C	0.5	µg/L	100 µg/L	99.2	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	85.4	60.0	140	----
Dibromochloromethane	124-48-1	E611C	0.5	µg/L	100 µg/L	98.9	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611C	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611C	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611C	0.5	µg/L	100 µg/L	99.2	70.0	130	----
Dichloroethane, 1,1-	75-34-3	E611C	0.5	µg/L	100 µg/L	96.8	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611C	0.5	µg/L	100 µg/L	99.6	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611C	0.5	µg/L	100 µg/L	87.6	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611C	0.5	µg/L	100 µg/L	94.3	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611C	0.5	µg/L	100 µg/L	87.6	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: 1668643) - continued									
Dichloromethane	75-09-2	E611C	1	µg/L	100 µg/L	95.5	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611C	0.5	µg/L	100 µg/L	100	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611C	0.5	µg/L	100 µg/L	98.1	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611C	0.5	µg/L	100 µg/L	100	70.0	130	----
Ethylbenzene	100-41-4	E611C	0.5	µg/L	100 µg/L	98.7	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	0.5	µg/L	100 µg/L	103	70.0	130	----
Styrene	100-42-5	E611C	0.5	µg/L	100 µg/L	97.1	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.5	µg/L	100 µg/L	98.1	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.2	µg/L	100 µg/L	96.2	70.0	130	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	100 µg/L	93.0	70.0	130	----
Toluene	108-88-3	E611C	0.4	µg/L	100 µg/L	96.0	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611C	0.5	µg/L	100 µg/L	95.0	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611C	0.5	µg/L	100 µg/L	99.3	70.0	130	----
Trichloroethylene	79-01-6	E611C	0.5	µg/L	100 µg/L	94.4	70.0	130	----
Trichlorofluoromethane	75-69-4	E611C	0.5	µg/L	100 µg/L	89.7	60.0	140	----
Vinyl chloride	75-01-4	E611C	0.4	µg/L	100 µg/L	87.7	60.0	140	----
Xylene, m+p-	179601-23-1	E611C	0.4	µg/L	200 µg/L	99.4	70.0	130	----
Xylene, o-	95-47-6	E611C	0.3	µg/L	100 µg/L	98.3	70.0	130	----
Hydrocarbons (QCLot: 1668642)									
VHw (C6-C10)	---	E581.VH+F1	100	µg/L	6310 µg/L	87.8	70.0	130	----
Hydrocarbons (QCLot: 1671111)									
EPH (C10-C19)	---	E601A	250	µg/L	6490 µg/L	114	70.0	130	----
EPH (C19-C32)	---	E601A	250	µg/L	3360 µg/L	115	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1671112)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5 µg/L	120	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5 µg/L	125	60.0	130	----
Acridine	260-94-6	E641A	0.01	µg/L	0.5 µg/L	123	60.0	130	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5 µg/L	129	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	117	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5 µg/L	116	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5 µg/L	130	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5 µg/L	118	60.0	130	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5 µg/L	122	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: 1671112) - continued									
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5 µg/L	113	60.0	130	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5 µg/L	128	60.0	130	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5 µg/L	122	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5 µg/L	102	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5 µg/L	114	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5 µg/L	122	60.0	130	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5 µg/L	123	50.0	130	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5 µg/L	128	60.0	130	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5 µg/L	125	60.0	130	----
Quinoline	91-22-5	E641A	0.05	µg/L	0.5 µg/L	111	60.0	130	----
Glycols (QCLot: 1661246)									
Diethylene glycol	111-46-6	E680E	5	mg/L	25 mg/L	107	70.0	130	----
Ethylene glycol	107-21-1	E680E	5	mg/L	25 mg/L	107	70.0	130	----
Propylene glycol, 1,2-	57-55-6	E680E	5	mg/L	25 mg/L	108	70.0	130	----
Triethylene glycol	112-27-6	E680E	5	mg/L	25 mg/L	107	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: 1661015)										
VA24C4535-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	103 mg/L	100 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1661016)										
VA24C4535-001	Anonymous	Chloride	16887-00-6	E235.Cl	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1661017)										
VA24C4535-001	Anonymous	Fluoride	16984-48-8	E235.F	1.01 mg/L	1 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1661018)										
VA24C4535-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.516 mg/L	0.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1661019)										
VA24C4535-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.55 mg/L	2.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1661020)										
VA24C4535-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.515 mg/L	0.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1666174)										
VA24C4470-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1666176)										
VA24C4470-002	Anonymous	Nitrogen, total	7727-37-9	E366	ND mg/L	----	ND	70.0	130	----
Anions and Nutrients (QCLot: 1666177)										
VA24C4470-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0474 mg/L	0.05 mg/L	94.8	70.0	130	----
Organic / Inorganic Carbon (QCLot: 1666175)										
VA24C4659-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	5.05 mg/L	5 mg/L	101	70.0	130	----
Total Sulfides (QCLot: 1660216)										
VA24C4571-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.206 mg/L	0.2 mg/L	103	75.0	125	----
Total Metals (QCLot: 1664010)										
VA24C4014-001	Anonymous	Aluminum, total	7429-90-5	E420	0.195 mg/L	0.2 mg/L	97.5	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0207 mg/L	0.02 mg/L	104	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0373 mg/L	0.04 mg/L	93.3	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00932 mg/L	0.01 mg/L	93.2	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00384 mg/L	0.004 mg/L	96.0	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00974 mg/L	0.01 mg/L	97.4	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0384 mg/L	0.04 mg/L	96.1	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: 1664010) - continued										
VA24C4014-001	Anonymous	Cobalt, total	7440-48-4	E420	0.0194 mg/L	0.02 mg/L	97.1	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	1.90 mg/L	2 mg/L	95.1	70.0	130	----
		Lead, total	7439-92-1	E420	0.0187 mg/L	0.02 mg/L	93.5	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0917 mg/L	0.1 mg/L	91.7	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	ND mg/L	----	ND	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0195 mg/L	0.02 mg/L	97.7	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0387 mg/L	0.04 mg/L	96.7	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.46 mg/L	10 mg/L	94.6	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0189 mg/L	0.02 mg/L	94.3	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0420 mg/L	0.04 mg/L	105	70.0	130	----
		Silicon, total	7440-21-3	E420	8.96 mg/L	10 mg/L	89.6	70.0	130	----
		Silver, total	7440-22-4	E420	0.00377 mg/L	0.004 mg/L	94.3	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	0.0397 mg/L	0.04 mg/L	99.2	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00366 mg/L	0.004 mg/L	91.4	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0196 mg/L	0.02 mg/L	98.2	70.0	130	----
		Tin, total	7440-31-5	E420	0.0192 mg/L	0.02 mg/L	96.0	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0375 mg/L	0.04 mg/L	93.6	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0183 mg/L	0.02 mg/L	91.7	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00384 mg/L	0.004 mg/L	96.0	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0985 mg/L	0.1 mg/L	98.5	70.0	130	----
		Zinc, total	7440-66-6	E420	0.390 mg/L	0.4 mg/L	97.5	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0389 mg/L	0.04 mg/L	97.2	70.0	130	----
Total Metals (QCLot: 1671218)										
KS2403720-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000962 mg/L	0 mg/L	96.2	70.0	130	----
Dissolved Metals (QCLot: 1658588)										
VA24C4468-001	WLNG EOP	Aluminum, dissolved	7429-90-5	E421	0.193 mg/L	0.2 mg/L	96.5	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0196 mg/L	0.02 mg/L	98.0	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0195 mg/L	0.02 mg/L	97.4	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0191 mg/L	0.02 mg/L	95.7	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0387 mg/L	0.04 mg/L	96.9	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00953 mg/L	0.01 mg/L	95.3	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.086 mg/L	0.1 mg/L	86.0	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00379 mg/L	0.004 mg/L	94.7	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00944 mg/L	0.01 mg/L	94.4	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0377 mg/L	0.04 mg/L	94.4	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0191 mg/L	0.02 mg/L	95.4	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
Dissolved Metals (QCLot: 1658588) - continued										
VA24C4468-001	WLNQ EOP	Copper, dissolved	7440-50-8	E421	0.0188 mg/L	0.02 mg/L	93.8	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.89 mg/L	2 mg/L	94.5	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0189 mg/L	0.02 mg/L	94.3	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	ND mg/L	----	ND	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0378 mg/L	0.04 mg/L	94.5	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	9.56 mg/L	10 mg/L	95.6	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	3.58 mg/L	4 mg/L	89.5	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0178 mg/L	0.02 mg/L	89.1	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0381 mg/L	0.04 mg/L	95.2	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	0.00396 mg/L	0.004 mg/L	99.1	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	0.0396 mg/L	0.04 mg/L	99.1	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00378 mg/L	0.004 mg/L	94.4	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0201 mg/L	0.02 mg/L	101	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	0.0382 mg/L	0.04 mg/L	95.4	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0191 mg/L	0.02 mg/L	95.7	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00396 mg/L	0.004 mg/L	99.1	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0954 mg/L	0.1 mg/L	95.4	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.368 mg/L	0.4 mg/L	91.9	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0386 mg/L	0.04 mg/L	96.6	70.0	130	----
Speciated Metals (QCLot: 1662683)										
HA2402244-001	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0388 mg/L	0.04 mg/L	97.0	70.0	130	----
Aggregate Organics (QCLot: 1665391)										
SK2405139-001	Anonymous	Phenols, total (4AAP)	----	E562	0.0203 mg/L	0.02 mg/L	101	75.0	125	----
Volatile Organic Compounds (QCLot: 1668643)										
VA24C4565-017	Anonymous	Benzene	71-43-2	E611C	96.0 µg/L	100 µg/L	96.0	60.0	140	----
		Bromodichloromethane	75-27-4	E611C	97.8 µg/L	100 µg/L	97.8	60.0	140	----
		Bromoform	75-25-2	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Carbon tetrachloride	56-23-5	E611C	94.4 µg/L	100 µg/L	94.4	60.0	140	----
		Chlorobenzene	108-90-7	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Chloroethane	75-00-3	E611C	97.3 µg/L	100 µg/L	97.3	50.0	150	----
		Chloroform	67-66-3	E611C	99.4 µg/L	100 µg/L	99.4	60.0	140	----
		Chloromethane	74-87-3	E611C	79.8 µg/L	100 µg/L	79.8	50.0	150	----
		Dibromochloromethane	124-48-1	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611C	99.6 µg/L	100 µg/L	99.6	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611C	96.9 µg/L	100 µg/L	96.9	60.0	140	----



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: 1668643) - continued										
VA24C4565-017	Anonymous	Dichlorobenzene, 1,4-	106-46-7	E611C	99.3 µg/L	100 µg/L	99.3	60.0	140	----
		Dichloroethane, 1,1-	75-34-3	E611C	97.8 µg/L	100 µg/L	97.8	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611C	99.2 µg/L	100 µg/L	99.2	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611C	88.3 µg/L	100 µg/L	88.3	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611C	95.6 µg/L	100 µg/L	95.6	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611C	88.1 µg/L	100 µg/L	88.1	60.0	140	----
		Dichloromethane	75-09-2	E611C	95.0 µg/L	100 µg/L	95.0	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611C	102 µg/L	100 µg/L	102	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Ethylbenzene	100-41-4	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	105 µg/L	100 µg/L	105	60.0	140	----
		Styrene	100-42-5	E611C	99.9 µg/L	100 µg/L	99.9	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	102 µg/L	100 µg/L	102	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	96.2 µg/L	100 µg/L	96.2	60.0	140	----
		Tetrachloroethylene	127-18-4	E611C	93.5 µg/L	100 µg/L	93.5	60.0	140	----
		Toluene	108-88-3	E611C	96.7 µg/L	100 µg/L	96.7	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	97.6 µg/L	100 µg/L	97.6	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Trichloroethylene	79-01-6	E611C	97.0 µg/L	100 µg/L	97.0	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611C	89.5 µg/L	100 µg/L	89.5	50.0	150	----
		Vinyl chloride	75-01-4	E611C	83.7 µg/L	100 µg/L	83.7	50.0	150	----
		Xylene, m+p-	179601-23-1	E611C	204 µg/L	200 µg/L	102	60.0	140	----
		Xylene, o-	95-47-6	E611C	101 µg/L	100 µg/L	101	60.0	140	----
Hydrocarbons (QCLot: 1668642)										
VA24C4565-016	Anonymous	VHw (C6-C10)	----	E581.VH+F1	5000 µg/L	6310 µg/L	79.3	60.0	140	----



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Chain of Custody (COC) / Analytical Request Form

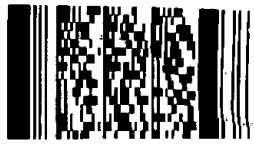
COC Number: 20 -

Page of


Canada Toll Free: 1 800 668 9878

Report To Contact and company name below will appear on the final report Company: Triton Environmental Contact: Phone: Street: City/Province: Vancouver/BC Postal Code: V6E 4M3		Reports / Recipients Select Report Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Merge QC/QCI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			Turnaround Time (TAT) Requested <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)								
Invoice To Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Invoice Recipients Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax Email 2			Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below			Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests. Date and Time Required for all E&P TATs: 25 Sept 2024 10:00 AM								
Project Information ALS Account # / Quote #: VA23-TRIT100-012 Job #: 11964 PO / AFE: 11964 - Task 30 - Phase 3C-4C LSD:		Oil and Gas Required Fields (client use) AFE/Cost Center: PO# Major/Minor Code: Routing Code: Requisitioner: Location:			For all tests with rush TATs requested, please contact your AM to confirm availability.			NUMBER OF CONTAINERS Total metals + mercury Dissolved metals + mercury Total hexavalent chromium Total trivalent chromium TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO ₂ , NO ₃ , SO ₄) Total sulfide (low) (as H ₂ S) Un-ionized Sulfide (low) Nutrients (ammonia, ammonium, total nitrogen, total phosphorus, phenols) VOC/VPH EPH, PAH, LEPH/HEPH DOC Glycols General parameters (alkalinity)			SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)					
ALS Lab Work Order # (ALS use only):		ALS Contact: Can Dang Sampler:			Total metals + mercury Dissolved metals + mercury Total hexavalent chromium Total trivalent chromium TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO ₂ , NO ₃ , SO ₄) Total sulfide (low) (as H ₂ S) Un-ionized Sulfide (low) Nutrients (ammonia, ammonium, total nitrogen, total phosphorus, phenols) VOC/VPH EPH, PAH, LEPH/HEPH DOC Glycols General parameters (alkalinity)			SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)								
ALS Sample # (ALS use only) WLNG EOP pH: 7.06 cond: 171 µS/cm temp: 16.1 °C Duplicate		Sample Identification and/or Coordinates (This description will appear on the report) Date (dd-mmm-yy): 17-Sep-24 Time (hh:mm): 12:28 Sample Type: Water			Total metals + mercury Dissolved metals + mercury Total hexavalent chromium Total trivalent chromium TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO ₂ , NO ₃ , SO ₄) Total sulfide (low) (as H ₂ S) Un-ionized Sulfide (low) Nutrients (ammonia, ammonium, total nitrogen, total phosphorus, phenols) VOC/VPH EPH, PAH, LEPH/HEPH DOC Glycols General parameters (alkalinity)			SAMPLES ON HOLD EXTENDED STORAGE REQUIRED SUSPECTED HAZARD (see notes)								
Drinking Water Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) Dissolved metals, mercury, and nutrients not field filtered. Preservatives were rinsed out. ESDAT EDD to ESdat_CA+tritonenv@ESdatLabSync.net			SAMPLE RECEIPT DETAILS (ALS use only) Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Cooler Custody Seals Intact: <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C 12			SHIPMENT RELEASE (client use) Rele: Date: 17 Sept 24 Time: 17:30			INITIAL SHIPMENT RECEPTION (ALS use only) Received by: Date: Time:			FINAL SHIPMENT RECEPTION (ALS use only) Received by: RJ Date: Sep 17 Time: 17:30		

Environmental Division
 Vancouver
 Work Order Reference
VA24C4468



Telephone: +1 604 253 4188

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 16 th to Sept 22 nd , 2024
	Report #	26
	Appendix C	C-4

Woodfibre Site WTP Discharge Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-17-Chycoski-8A027

Project Component:	Tunnel	Site Name:	WLNG Treatment Discharge
Inspection Date:	09/17/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669178 -123.248156
Temperature(c):	Low 13 High 18	Permit:	PE 110136
Weather Conditions:	Overcast	Ground Conditions:	Dry

Observations

Time: 12:28:00 **Flow Volume (visual):** N/A

Notes: Dissolved bottles were not field filtered. Preservatives were rinsed out.

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/PH	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

Photo: 4
Location: WLNG EOP
Description: Lab COC

Photos



Photo: 5
Location: WLNG EOP
Description: LC50 lab COC



2024-9-17-Chycoski-8A027

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by:	SD
		Approved by:	BC2
		Date:	September 26th

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:

The discharged water consistently remained within regulatory guidelines. The turbidity as measured in NTUs met both short-term and long-term standards. Other key parameters including temperature, pH, salinity, conductivity, and oxidation-reduction potential (ORP), were monitored throughout the discharge process and remained within the prescribed limits. All relevant parameters were measured using YSI instruments and WTP probes. The total discharge volume up to September 16th was 5738 m³.

Daily Volume Summary:

Table 1: Discharge Volumes Daily Summary

Date	Location	Volume (m3)	Comments
September 16	WoodFibre (WF)	94	None
September 17	WF	290	None
September 18	WF	145	None
September 19	WF	241	None
September 20	WF	353	None
September 21	WF	309	None
September 22	WF	378	None
	Total	1810	None

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

2. Discharge Parameter Summary:

Table 2: Discharge Parameter Summary

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/16/2024	3:45:00	7.1	0.04	1.7	5741.02	16.3	264
9/16/2024	4:00:00	7.1	0.04	1.5	5747.11	16.3	266
9/16/2024	4:15:00	7.1	0.04	0.9	5753.07	16.3	268
9/16/2024	7:30:00	7.6	0.03	4.4	5759.14	16.8	269
9/16/2024	7:45:00	7.6	0.03	4.2	5762.97	17.2	271
9/16/2024	8:00:00	7.5	0.00	3.6	5766.38	17.6	271
9/16/2024	8:15:00	7.5	0.03	4.5	5767.42	17.9	270
9/16/2024	8:30:00	7.5	0.03	3.9	5771.50	18.2	271
9/16/2024	8:45:00	7.5	0.03	3.7	5775.79	18.5	271
9/16/2024	9:00:00	7.5	0.00	3.8	5780.34	18.9	269
9/16/2024	9:15:00	7.5	0.04	3.9	5784.11	19	271
9/16/2024	9:30:00	7.5	0.04	3.6	5790.20	19.3	271
9/16/2024	9:45:00	7.5	0.04	3.5	5796.35	19.7	271
9/16/2024	10:00:00	7.5	0.00	3.7	5802.49	19.9	271
9/16/2024	10:15:00	7.5	0.04	3.8	5807.48	20	271
9/16/2024	10:30:00	7.6	0.04	3.7	5813.60	20.2	272
9/16/2024	10:45:00	7.7	0.04	3.5	5819.69	20.4	273
9/16/2024	11:00:00	7.8	0.03	1.3	5825.44	15.6	264
9/16/2024	11:15:00	7.8	0.04	1.8	5830.94	16	264
9/17/2024	4:45:00	7.2	0.05	23.1	5843.68	15.8	269

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/17/2024	5:00:00	7.2	0.05	13.2	5850.89	16	269
9/17/2024	5:15:00	7.3	0.04	12.9	5852.44	16.1	271
9/17/2024	5:30:00	7.3	0.04	12.9	5858.02	16.5	271
9/17/2024	5:45:00	7.3	0.00	12.9	5859.90	17	269
9/17/2024	7:45:00	7.0	0.02	12.4	5861.32	20	271
9/17/2024	8:00:00	7.0	0.03	12.7	5865.37	20.1	271
9/17/2024	8:15:00	7.0	0.04	11.8	5871.31	20.2	271
9/17/2024	8:30:00	7.0	0.04	13.3	5877.40	20.3	271
9/17/2024	8:45:00	7.0	0.03	12.9	5882.69	20.3	273
9/17/2024	9:00:00	7.6	0.06	21.7	5890.45	19.8	271
9/17/2024	11:30:00	7.3	0.04	17.1	5902.35	15.7	271
9/17/2024	11:45:00	7.2	0.04	17.4	5907.77	15.6	267
9/17/2024	12:00:00	7.1	0.04	17.5	5913.21	15.5	268
9/17/2024	12:15:00	7.1	0.05	17.6	5920.00	15.5	266
9/17/2024	12:30:00	7.1	0.04	16.9	5926.77	15.5	268
9/17/2024	12:45:00	7.1	0.04	15.7	5933.57	15.5	270
9/17/2024	13:00:00	7.2	0.06	13.9	5941.08	15.6	267
9/17/2024	13:15:00	7.3	0.06	13.3	5950.55	15.5	267
9/17/2024	13:30:00	7.3	0.06	11.5	5959.99	15.5	265
9/17/2024	13:45:00	7.3	0.05	25.6	5968.99	15.5	263
9/17/2024	14:00:00	7.1	0.06	9.5	5978.40	15.5	263
9/17/2024	14:15:00	7.2	0.08	7.6	5988.62	15.4	265
9/17/2024	14:30:00	7.3	0.05	6.3	5999.61	15.3	259
9/17/2024	14:45:00	7.3	0.04	4.6	6006.36	15.3	262
9/17/2024	15:00:00	7.2	0.04	3.3	6013.16	15.3	262

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/17/2024	15:15:00	7.1	0.04	2.4	6019.97	15.3	262
9/17/2024	15:30:00	7.1	0.04	2.0	6026.73	15.3	262
9/17/2024	15:45:00	7.2	0.04	1.5	6033.54	15.3	262
9/17/2024	16:00:00	7.2	0.04	1.3	6040.34	15.3	262
9/17/2024	16:15:00	7.3	0.04	0.9	6047.11	15.3	263
9/17/2024	16:30:00	7.3	0.04	0.8	6053.91	15.3	262
9/17/2024	16:45:00	7.2	0.04	0.6	6060.72	15.2	260
9/17/2024	17:00:00	7.2	0.04	0.6	6067.48	15.2	264
9/17/2024	17:15:00	7.1	0.04	0.6	6074.27	15.2	264
9/17/2024	17:30:00	7.1	0.04	0.6	6080.94	15.2	264
9/17/2024	17:45:00	7.1	0.04	0.6	6087.61	15.2	263
9/17/2024	18:00:00	7.2	0.04	0.6	6094.20	15.1	263
9/17/2024	18:15:00	7.2	0.04	0.8	6100.67	15	263
9/17/2024	18:30:00	7.2	0.04	2.2	6107.30	15	262
9/17/2024	18:45:00	7.3	0.04	4.5	6112.71	14.9	261
9/17/2024	22:45:00	7.4	0.03	6.2	6114.10	14.9	264
9/17/2024	23:00:00	7.3	0.03	6.0	6118.83	15.2	264
9/17/2024	23:45:00	7.4	0.04	9.4	6122.58	16.3	264
9/18/2024	0:00:00	7.2	0.03	7.3	6125.19	14.7	264
9/18/2024	0:15:00	7.2	0.03	7.5	6129.27	14.7	266
9/18/2024	0:45:00	7.1	0.03	9.4	6134.93	14.6	267
9/18/2024	1:00:00	7.1	0.03	6.9	6139.42	14.7	267
9/18/2024	1:15:00	7.1	0.03	6.9	6144.22	14.7	264
9/18/2024	1:30:00	7.1	0.03	7.4	6149.29	14.8	264
9/18/2024	1:45:00	7.1	0.03	8.3	6154.34	14.8	265



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Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/18/2024	2:00:00	7.2	0.03	9.7	6159.41	14.8	265
9/18/2024	2:15:00	7.2	0.03	8.7	6164.28	14.8	263
9/18/2024	2:30:00	7.2	0.03	8.8	6169.14	14.8	264
9/18/2024	2:45:00	7.1	0.04	7.1	6172.46	14.8	262
9/18/2024	3:00:00	7.2	0.04	6.9	6177.91	14.8	264
9/18/2024	3:15:00	7.3	0.04	7.8	6183.35	14.8	264
9/18/2024	3:30:00	7.4	0.02	6.4	6188.59	14.8	264
9/18/2024	3:45:00	7.3	0.04	4.7	6193.94	14.8	264
9/18/2024	4:00:00	7.3	0.04	4.8	6199.39	14.7	264
9/18/2024	4:15:00	7.3	0.04	4.9	6204.83	14.7	264
9/18/2024	4:30:00	7.3	0.04	4.8	6210.24	14.6	263
9/18/2024	4:45:00	7.3	0.03	6.0	6215.65	14.5	263
9/18/2024	5:00:00	7.0	0.02	3.5	6218.07	14.6	266
9/18/2024	5:15:00	7.0	0.02	5.6	6221.45	14.5	266
9/18/2024	5:30:00	7.2	0.02	6.6	6224.85	14.5	262
9/18/2024	5:45:00	7.3	0.03	9.2	6228.71	14.5	264
9/18/2024	6:00:00	7.3	0.03	9.5	6232.77	14.4	264
9/18/2024	6:15:00	7.0	0.03	11.1	6236.86	14.5	266
9/18/2024	6:30:00	7.4	0.02	10.3	6239.46	14.9	264
9/18/2024	6:45:00	7.2	0.02	14.6	6243.41	14.4	264
9/18/2024	10:15:00	7.1	0.03	9.0	6248.24	15.1	265
9/18/2024	10:30:00	7.1	0.03	12.6	6252.97	15.2	264
9/18/2024	10:45:00	7.4	0.03	19.2	6257.74	15.3	266
9/18/2024	11:00:00	7.1	0.03	32.0	6262.50	15.5	264
9/18/2024	23:45:00	7.1	0.04	6.3	6267.72	15.9	268

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/19/2024	0:00:00	7.1	0.04	6.1	6273.13	16.1	269
9/19/2024	0:15:00	7.1	0.03	6.2	6278.58	16.3	271
9/19/2024	0:30:00	7.1	0.04	5.8	6284.02	16.5	271
9/19/2024	0:45:00	7.1	0.04	5.9	6289.43	16.7	273
9/19/2024	1:00:00	7.1	0.03	4.9	6294.88	16.8	273
9/19/2024	1:15:00	7.1	0.03	5.2	6300.32	16.9	271
9/19/2024	1:30:00	7.0	0.03	4.8	6305.73	17.1	271
9/19/2024	1:45:00	7.0	0.03	4.7	6311.17	17.2	271
9/19/2024	4:45:00	7.3	0.03	10.8	6316.27	15.2	262
9/19/2024	5:00:00	7.0	0.03	7.9	6321.17	15.2	266
9/19/2024	5:15:00	7.3	0.03	7.6	6326.29	15.2	264
9/19/2024	5:30:00	7.0	0.03	8.2	6331.68	15.2	266
9/19/2024	5:45:00	7.2	0.03	8.9	6337.09	15.2	266
9/19/2024	6:00:00	7.1	0.03	8.3	6342.45	15.2	267
9/19/2024	6:15:00	7.1	0.03	8.5	6347.85	15.2	266
9/19/2024	6:30:00	7.3	0.03	7.9	6353.19	15.3	264
9/19/2024	6:45:00	7.1	0.03	8.3	6358.43	15.3	264
9/19/2024	7:00:00	7.4	0.02	8.8	6363.72	15.3	263
9/19/2024	7:15:00	7.2	0.03	32.7	6365.02	15.4	262
9/19/2024	7:30:00	7.0	0.03	9.1	6365.89	15.3	267
9/19/2024	7:45:00	7.4	0.03	6.8	6370.66	15.3	262
9/19/2024	8:00:00	7.0	0.03	7.1	6375.42	15.3	263
9/19/2024	8:15:00	7.2	0.03	7.5	6380.16	15.3	263
9/19/2024	8:30:00	7.1	0.03	7.4	6384.92	15.3	265
9/19/2024	8:45:00	7.1	0.03	8.0	6389.68	15.2	267

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/19/2024	9:00:00	7.3	0.03	8.4	6394.42	15.2	262
9/19/2024	9:15:00	7.0	0.03	8.9	6399.18	15.3	266
9/19/2024	9:30:00	7.4	0.03	10.7	6404.01	15.3	264
9/19/2024	9:45:00	7.1	0.03	7.6	6409.38	15.3	263
9/19/2024	10:00:00	7.1	0.03	13.5	6414.77	15.8	265
9/19/2024	10:15:00	7.3	0.03	14.8	6420.17	15.6	265
9/19/2024	10:30:00	7.0	0.03	14.5	6425.52	15.7	264
9/19/2024	10:45:00	7.3	0.03	15.9	6430.90	15.7	265
9/19/2024	11:00:00	7.2	0.03	17.5	6436.22	15.7	262
9/19/2024	11:15:00	7.0	0.03	22.4	6441.40	15.8	262
9/19/2024	11:30:00	7.3	0.03	43.9	6446.74	15.7	262
9/19/2024	14:30:00	7.2	0.03	16.6	6455.20	16.8	262
9/19/2024	15:15:00	7.1	0.03	11.9	6458.32	17.1	266
9/19/2024	15:30:00	7.2	0.03	12.9	6463.08	17.2	266
9/19/2024	15:45:00	7.3	0.03	18.5	6467.81	17.3	264
9/19/2024	16:00:00	7.0	0.03	24.4	6472.57	17.5	268
9/19/2024	16:15:00	7.3	0.03	34.2	6477.33	17.5	264
9/19/2024	16:30:00	7.1	0.03	53.9	6482.07	17.6	266
9/19/2024	22:45:00	7.2	0.03	33.7	6486.99	16.2	269
9/19/2024	23:00:00	6.9	0.04	15.7	6492.42	15.8	269
9/19/2024	23:15:00	7.3	0.04	10.2	6498.52	15.8	268
9/19/2024	23:30:00	7.1	0.04	6.5	6503.96	15.6	268
9/19/2024	23:45:00	7.2	0.04	5.7	6509.41	15.6	266
9/20/2024	0:00:00	7.2	0.04	5.8	6514.85	15.5	266
9/20/2024	0:15:00	7.1	0.04	6.8	6520.26	15.5	266



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Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/20/2024	0:30:00	7.3	0.04	8.3	6525.71	15.5	264
9/20/2024	0:45:00	7.1	0.04	9.2	6531.15	15.5	267
9/20/2024	1:00:00	7.4	0.04	11.4	6536.56	15.4	265
9/20/2024	1:15:00	7.2	0.04	10.5	6542.00	15.6	264
9/20/2024	1:30:00	7.0	0.01	11.9	6543.85	15.7	268
9/20/2024	1:45:00	7.3	0.03	20.2	6548.65	15.2	264
9/20/2024	2:00:00	7.1	0.03	16.1	6553.42	15.1	264
9/20/2024	2:15:00	7.2	0.03	20.4	6558.68	15.1	266
9/20/2024	2:30:00	7.4	0.03	18.3	6563.58	15.1	262
9/20/2024	2:45:00	7.3	0.01	22.9	6567.84	15.8	263
9/20/2024	3:30:00	7.4	0.03	14.5	6570.88	15.1	263
9/20/2024	3:45:00	7.3	0.03	11.5	6574.96	15.5	261
9/20/2024	4:00:00	7.3	0.03	10.3	6579.02	15.8	262
9/20/2024	4:15:00	7.3	0.03	9.7	6583.10	16.1	261
9/20/2024	4:30:00	7.3	0.03	10.4	6587.18	16.4	262
9/20/2024	4:45:00	7.3	0.03	12.4	6591.16	16.6	263
9/20/2024	5:00:00	7.3	0.03	11.3	6595.25	16.8	263
9/20/2024	5:15:00	7.3	0.03	11.6	6599.33	17	261
9/20/2024	5:30:00	7.3	0.03	11.3	6603.39	17.2	261
9/20/2024	5:45:00	7.3	0.03	11.6	6607.47	17.3	261
9/20/2024	6:00:00	7.3	0.03	11.1	6611.55	17.4	262
9/20/2024	6:15:00	7.3	0.03	11.6	6615.61	17.6	263
9/20/2024	6:30:00	7.3	0.03	10.7	6619.69	17.6	262
9/20/2024	6:45:00	7.3	0.03	10.0	6623.61	17.8	261
9/20/2024	8:00:00	7.2	0.03	13.4	6625.10	14.7	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/20/2024	8:15:00	7.2	0.03	10.8	6629.87	15.1	255
9/20/2024	8:30:00	7.2	0.03	9.8	6634.60	15.5	256
9/20/2024	8:45:00	7.2	0.03	10.6	6639.37	15.8	256
9/20/2024	9:00:00	7.2	0.03	8.0	6644.13	16.1	256
9/20/2024	9:15:00	7.2	0.03	9.3	6648.87	16.5	257
9/20/2024	9:30:00	7.1	0.03	8.6	6653.63	16.7	257
9/20/2024	9:45:00	7.1	0.03	8.1	6658.39	17	255
9/20/2024	10:00:00	7.1	0.03	7.7	6663.13	17.2	255
9/20/2024	10:15:00	7.1	0.03	7.8	6667.89	17.5	256
9/20/2024	10:30:00	7.1	0.03	8.2	6672.65	17.7	255
9/20/2024	10:45:00	7.1	0.03	9.1	6677.39	17.9	255
9/20/2024	11:00:00	7.1	0.03	8.9	6682.15	18.1	255
9/20/2024	11:15:00	7.1	0.03	7.8	6686.91	18.3	255
9/20/2024	11:30:00	7.1	0.03	7.9	6691.65	18.4	253
9/20/2024	11:45:00	7.1	0.03	7.8	6696.41	18.6	254
9/20/2024	12:00:00	7.1	0.03	8.0	6701.18	18.8	254
9/20/2024	12:15:00	7.1	0.03	7.7	6705.91	18.9	253
9/20/2024	12:30:00	7.1	0.03	7.7	6710.68	19	254
9/20/2024	12:45:00	7.1	0.03	7.5	6715.44	19.2	256
9/20/2024	13:00:00	7.1	0.03	7.6	6720.17	19.4	256
9/20/2024	13:15:00	7.1	0.03	7.4	6724.94	19.6	254
9/20/2024	13:30:00	7.1	0.03	7.3	6729.70	19.8	256
9/20/2024	13:45:00	7.2	0.03	9.4	6734.44	20.1	118
9/20/2024	14:00:00	7.2	0.03	6.2	6739.20	20.3	118
9/20/2024	16:00:00	7.1	0.04	15.7	6746.59	17.8	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/20/2024	16:15:00	7.4	0.03	16.6	6752.02	17.7	253
9/20/2024	16:30:00	7.0	0.03	16.7	6757.24	17.7	256
9/20/2024	16:45:00	7.3	0.03	17.2	6762.31	17.6	255
9/20/2024	17:00:00	7.1	0.04	16.6	6767.74	17.5	254
9/20/2024	17:15:00	7.2	0.04	18.2	6773.18	17.5	254
9/20/2024	17:30:00	7.2	0.03	20.9	6778.59	17.4	254
9/20/2024	20:15:00	7.4	0.04	6.7	6789.77	16	257
9/20/2024	20:30:00	7.0	0.04	3.0	6795.19	15.9	256
9/20/2024	20:45:00	7.2	0.04	2.6	6800.63	15.8	259
9/20/2024	21:00:00	7.3	0.04	3.4	6806.07	15.8	256
9/20/2024	21:15:00	7.0	0.04	3.9	6811.48	15.6	258
9/20/2024	21:30:00	7.3	0.03	4.5	6816.92	15.5	256
9/20/2024	21:45:00	7.1	0.03	4.6	6822.34	15.4	259
9/20/2024	22:00:00	7.1	0.03	5.7	6827.73	15.3	259
9/20/2024	22:15:00	7.3	0.03	6.5	6833.11	15.3	255
9/20/2024	22:30:00	7.0	0.03	9.5	6838.48	15.2	259
9/20/2024	22:45:00	7.2	0.03	10.7	6843.87	15.1	259
9/20/2024	23:00:00	7.3	0.04	11.6	6849.28	15	256
9/20/2024	23:15:00	7.0	0.03	14.1	6854.76	14.9	259
9/20/2024	23:30:00	7.3	0.03	13.9	6860.10	14.8	256
9/21/2024	0:15:00	7.3	0.03	16.3	6862.38	14.5	256
9/21/2024	0:30:00	7.0	0.04	23.6	6867.74	14.4	259
9/21/2024	0:45:00	7.2	0.03	25.4	6873.19	14.2	259
9/21/2024	1:45:00	7.3	0.03	10.7	6876.45	14	254
9/21/2024	2:00:00	7.4	0.03	8.3	6881.43	14.3	254

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/21/2024	2:15:00	7.3	0.03	7.7	6886.44	14.5	254
9/21/2024	2:30:00	7.3	0.03	7.9	6891.46	14.6	254
9/21/2024	2:45:00	7.3	0.03	7.2	6896.52	14.8	254
9/21/2024	3:00:00	7.3	0.03	6.4	6901.67	14.9	254
9/21/2024	3:15:00	7.3	0.03	6.8	6906.71	15	254
9/21/2024	3:30:00	7.3	0.03	6.8	6911.75	15.1	254
9/21/2024	3:45:00	7.3	0.03	6.5	6916.71	15.2	254
9/21/2024	4:00:00	7.3	0.03	6.2	6921.77	15.3	254
9/21/2024	4:15:00	7.3	0.03	6.1	6926.89	15.3	254
9/21/2024	4:30:00	7.3	0.03	5.8	6931.85	15.3	254
9/21/2024	4:45:00	7.3	0.03	6.3	6936.83	15.4	254
9/21/2024	5:00:00	7.3	0.03	6.8	6941.81	15.4	254
9/21/2024	5:15:00	7.3	0.03	6.5	6946.83	15.4	254
9/21/2024	5:30:00	7.3	0.03	6.6	6951.85	15.4	254
9/21/2024	5:45:00	7.3	0.03	6.9	6956.92	15.4	254
9/21/2024	6:45:00	7.3	0.03	9.1	6965.26	13.9	255
9/21/2024	7:00:00	7.2	0.00	8.2	6966.05	14	255
9/21/2024	8:30:00	7.1	0.03	7.4	6969.93	13.8	263
9/21/2024	8:45:00	7.3	0.03	7.7	6974.02	14	259
9/21/2024	9:00:00	7.2	0.03	8.4	6978.10	14.2	256
9/21/2024	9:15:00	7.0	0.03	6.7	6982.16	14.2	256
9/21/2024	9:30:00	7.1	0.03	7.1	6986.24	14.4	256
9/21/2024	9:45:00	7.2	0.03	6.4	6990.32	14.8	258
9/21/2024	10:00:00	7.3	0.03	6.2	6994.38	15.1	256
9/21/2024	10:15:00	7.3	0.03	7.1	6998.47	15.4	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/21/2024	10:30:00	7.3	0.03	6.0	7002.55	16	255
9/21/2024	10:45:00	7.3	0.03	6.0	7006.61	16.4	255
9/21/2024	11:00:00	7.1	0.03	5.5	7010.69	16.7	255
9/21/2024	11:15:00	7.0	0.03	5.8	7014.77	16.9	255
9/21/2024	11:30:00	7.0	0.03	5.2	7018.83	17.2	255
9/21/2024	11:45:00	7.0	0.03	5.3	7022.91	17.5	253
9/21/2024	12:00:00	7.0	0.03	5.0	7027.00	17.7	252
9/21/2024	12:15:00	7.0	0.03	5.1	7031.06	18	252
9/21/2024	12:30:00	7.0	0.03	4.7	7035.14	18.2	254
9/21/2024	12:45:00	7.0	0.03	5.1	7039.22	18.3	253
9/21/2024	13:00:00	7.0	0.03	4.6	7043.28	18.5	253
9/21/2024	13:15:00	7.0	0.03	4.5	7047.36	18.6	253
9/21/2024	13:30:00	7.0	0.03	4.6	7051.45	18.8	253
9/21/2024	13:45:00	7.0	0.03	4.4	7055.51	19	254
9/21/2024	14:00:00	7.0	0.03	4.3	7059.59	19.1	254
9/21/2024	14:15:00	7.0	0.03	4.4	7063.67	19.3	253
9/21/2024	14:30:00	7.0	0.03	4.4	7067.75	19.5	254
9/21/2024	14:45:00	7.0	0.03	4.0	7071.81	19.6	254
9/21/2024	15:00:00	7.0	0.03	4.0	7075.90	19.8	252
9/21/2024	15:15:00	7.0	0.03	4.1	7079.98	20	254
9/21/2024	15:45:00	7.5	0.03	14.8	7083.82	17.1	252
9/21/2024	16:00:00	7.4	0.03	10.7	7088.44	16.5	252
9/21/2024	17:45:00	7.4	0.03	9.4	7093.25	16	256
9/21/2024	18:00:00	7.4	0.03	9.0	7097.34	16.5	254
9/21/2024	18:15:00	7.3	0.03	9.3	7101.42	16.9	254

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/21/2024	18:30:00	7.3	0.03	6.5	7105.48	17.4	254
9/21/2024	18:45:00	7.3	0.03	8.6	7109.56	17.7	252
9/21/2024	19:00:00	7.3	0.03	6.0	7113.64	18	252
9/21/2024	19:15:00	7.3	0.03	5.4	7117.70	18.3	252
9/21/2024	19:30:00	7.3	0.03	4.7	7121.78	18.6	254
9/21/2024	19:45:00	7.3	0.03	4.5	7125.87	18.8	254
9/21/2024	20:00:00	7.3	0.03	3.3	7129.93	19	252
9/21/2024	20:15:00	7.3	0.03	3.7	7134.03	19.1	252
9/21/2024	20:30:00	7.3	0.03	4.7	7138.11	19.3	253
9/21/2024	20:45:00	7.3	0.03	5.8	7142.17	19.4	254
9/21/2024	21:00:00	7.3	0.03	4.7	7146.25	19.4	253
9/21/2024	22:15:00	7.2	0.03	28.3	7152.05	16.8	261
9/21/2024	22:30:00	7.2	0.03	21.4	7157.39	17.1	262
9/21/2024	22:45:00	7.2	0.03	24.4	7162.68	17.4	262
9/21/2024	23:00:00	7.2	0.03	16.9	7167.96	17.6	259
9/21/2024	23:45:00	7.3	0.03	14.4	7170.80	14.7	251
9/22/2024	0:00:00	7.3	0.03	13.7	7176.18	15.1	253
9/22/2024	0:15:00	7.2	0.03	12.1	7181.58	15.6	253
9/22/2024	0:30:00	7.2	0.03	10.2	7186.97	16	255
9/22/2024	0:45:00	7.2	0.03	8.1	7192.36	16.4	253
9/22/2024	1:00:00	7.2	0.03	8.1	7197.75	16.7	255
9/22/2024	1:15:00	7.2	0.04	6.9	7203.14	17	255
9/22/2024	1:30:00	7.2	0.04	6.3	7208.53	17.2	254
9/22/2024	1:45:00	7.2	0.03	5.7	7213.96	17.4	255
9/22/2024	2:00:00	7.2	0.03	6.1	7219.37	17.6	255

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/22/2024	2:15:00	7.2	0.03	6.0	7224.74	17.8	257
9/22/2024	2:30:00	7.2	0.03	5.6	7230.13	17.9	257
9/22/2024	2:45:00	7.2	0.03	7.5	7235.54	18.1	257
9/22/2024	3:00:00	7.2	0.04	7.7	7240.94	18.3	257
9/22/2024	3:15:00	7.2	0.03	6.7	7246.35	18.5	254
9/22/2024	3:30:00	7.2	0.03	6.6	7251.76	18.6	255
9/22/2024	4:15:00	7.3	0.03	18.8	7257.75	14.2	114
9/22/2024	4:30:00	7.4	0.03	15.3	7262.49	14.6	114
9/22/2024	4:45:00	7.4	0.03	13.8	7267.25	15.1	250
9/22/2024	5:00:00	7.3	0.03	10.7	7271.99	15.5	250
9/22/2024	5:15:00	7.3	0.03	8.4	7276.75	15.9	250
9/22/2024	5:30:00	7.3	0.03	7.1	7281.52	16.2	250
9/22/2024	5:45:00	7.3	0.03	5.8	7286.25	16.5	255
9/22/2024	6:00:00	7.3	0.03	5.0	7291.02	16.7	252
9/22/2024	6:15:00	7.3	0.03	6.2	7295.78	16.8	251
9/22/2024	6:30:00	7.3	0.03	6.4	7300.51	16.9	251
9/22/2024	6:45:00	7.3	0.03	7.6	7305.28	17	253
9/22/2024	7:00:00	7.3	0.03	6.3	7310.04	17.1	253
9/22/2024	7:15:00	7.3	0.03	5.6	7314.78	17.3	253
9/22/2024	7:30:00	7.3	0.03	5.2	7319.54	17.5	253
9/22/2024	7:45:00	7.3	0.03	5.1	7324.30	17.8	253
9/22/2024	8:00:00	6.9	0.03	26.0	7327.69	14.3	256
9/22/2024	9:15:00	7.4	0.02	12.2	7330.27	13.7	114
9/22/2024	9:30:00	7.0	0.02	10.5	7333.78	13.7	255
9/22/2024	9:45:00	7.1	0.02	9.7	7337.32	13.7	255

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/22/2024	10:00:00	7.3	0.03	10.4	7341.14	13.7	114
9/22/2024	10:15:00	7.3	0.03	8.7	7345.36	14.3	116
9/22/2024	10:30:00	7.0	0.03	11.1	7350.12	14.3	253
9/22/2024	10:45:00	7.1	0.03	11.3	7354.86	14.5	255
9/22/2024	11:00:00	7.3	0.03	9.3	7359.59	14.7	257
9/22/2024	11:15:00	7.4	0.03	8.2	7364.35	14.9	116
9/22/2024	11:30:00	7.1	0.03	8.8	7369.11	14.9	252
9/22/2024	11:45:00	7.0	0.03	10.1	7373.82	14.8	255
9/22/2024	13:15:00	7.2	0.03	10.0	7378.15	14.1	115
9/22/2024	13:30:00	7.3	0.03	9.3	7382.84	14.1	115
9/22/2024	13:45:00	7.0	0.03	9.3	7386.92	14.1	257
9/22/2024	14:00:00	7.1	0.03	9.3	7390.98	14.1	258
9/22/2024	14:15:00	7.4	0.03	8.7	7395.06	14.1	114
9/22/2024	14:30:00	7.1	0.03	8.9	7399.14	14.2	258
9/22/2024	14:45:00	7.0	0.03	9.0	7403.20	14.2	260
9/22/2024	15:00:00	7.3	0.03	7.7	7407.28	14.3	257
9/22/2024	15:15:00	7.2	0.03	8.6	7411.37	14.3	258
9/22/2024	15:30:00	7.0	0.03	8.5	7415.43	14.3	262
9/22/2024	15:45:00	7.2	0.03	8.5	7419.51	14.4	257
9/22/2024	16:00:00	7.3	0.03	9.6	7423.59	14.4	257
9/22/2024	16:15:00	7.0	0.03	11.5	7427.65	14.4	265
9/22/2024	16:30:00	7.1	0.03	12.3	7431.73	14.4	264
9/22/2024	16:45:00	7.4	0.03	14.6	7435.82	14.4	259
9/22/2024	17:00:00	7.1	0.03	17.5	7439.88	14.4	265
9/22/2024	17:15:00	7.0	0.03	19.8	7443.96	14.4	267

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (µS/cm)
9/22/2024	17:30:00	7.3	0.03	18.8	7448.04	14.4	262
9/22/2024	17:45:00	7.3	0.03	17.5	7452.10	14.4	263
9/22/2024	18:00:00	7.0	0.03	16.4	7456.18	14.3	268
9/22/2024	18:15:00	7.1	0.03	15.7	7460.26	14.3	268
9/22/2024	18:30:00	7.4	0.03	13.0	7464.32	14.3	265
9/22/2024	18:45:00	7.1	0.03	11.5	7468.41	14.3	268
9/22/2024	19:00:00	7.0	0.03	10.6	7472.49	14.3	267
9/22/2024	19:15:00	7.2	0.03	9.6	7476.62	14.4	266
9/22/2024	19:30:00	7.4	0.03	12.4	7480.80	14.6	265
9/22/2024	19:45:00	7.1	0.03	8.5	7484.97	14.6	265
9/22/2024	20:00:00	7.0	0.03	8.4	7489.14	14.7	267
9/22/2024	20:15:00	7.2	0.03	10.3	7493.42	14.7	267
9/22/2024	20:30:00	7.4	0.03	10.8	7497.79	14.7	263
9/22/2024	20:45:00	7.2	0.12	28.8	7502.31	14.9	263
9/22/2024	21:00:00	7.1	0.03	14.7	7508.12	15.5	265
9/22/2024	21:45:00	7.1	0.03	12.4	7511.73	14.7	259
9/22/2024	22:00:00	7.1	0.03	9.0	7516.49	15.6	262
9/22/2024	22:15:00	7.2	0.03	6.5	7521.23	15.5	260
9/22/2024	22:30:00	7.3	0.03	4.2	7525.97	15.9	262
9/22/2024	22:45:00	7.2	0.03	3.6	7530.67	16.3	260
9/22/2024	23:00:00	7.2	0.03	3.4	7535.36	16.6	260
9/22/2024	23:15:00	7.2	0.03	2.7	7540.11	17	258
9/22/2024	23:30:00	7.2	0.03	1.6	7544.80	17.3	260
9/22/2024	23:45:00	7.2	0.03	1.3	7549.46	17.5	262

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

Date	Time	Temperature (°C)	DO (mg/L)	Conductivity (uS/cm)	Salinity (ppt)	ORP (mV)	Visible Sheen
9/16/2024	08:35:32AM	14.7	9.68	148.9	0.07	218.8	No
9/17/2024	11:27:58AM	14.9	9.37	210.4	0.10	161.6	No
9/18/2024	09:58:03AM	15.3	10.00	147.8	0.07	189.1	No
9/19/2024	02:24:31PM	18.0	9.68	148.5	0.07	147.8	No
9/20/2024	09:00:52PM	15.6	10.03	138.7	0.07	127.5	No
9/21/2024	12:55:06PM	14.7	10.25	132.5	0.06	125.3	No
9/22/2024	09:31:06AM	13.7	10.63	135.8	0.06	131.6	No

3. Calibration Log:

Table 4. Calibration Log


Date	Unit	pH	Conductivity/Temp.	Salinity	NTU
9/17/2024	YSI	✓	✓	✓	✓
9/13/2024	WTP	✓	N/A	N/A	✓




Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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APPENDIX A: WTP LOG

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	0:00:00	7.1	0.020	2.1	5738.58	Open	Closed	17.9	277
9/16/2024	0:15:00	7.1	0.000	2.2	5738.58	Open	Closed	17.8	279
9/16/2024	0:30:00	7.1	0.024	2.1	5738.58	Open	Closed	17.8	279
9/16/2024	0:45:00	7.1	0.017	2.2	5738.58	Open	Closed	17.7	277
9/16/2024	1:00:00	7.1	0.019	2.4	5738.58	Open	Closed	17.6	276
9/16/2024	1:15:00	7.4	0.000	40	5738.58	Open	Closed	16.2	272
9/16/2024	1:30:00	7.4	0.000	38.9	5738.58	Open	Closed	16.3	267
9/16/2024	1:45:00	7.3	0.029	32	5738.58	Open	Closed	16.2	266
9/16/2024	2:00:00	7.2	0.048	30.7	5738.58	Open	Closed	16.2	266
9/16/2024	2:15:00	7.2	0.038	0.9	5738.58	Open	Closed	16.3	266
9/16/2024	2:30:00	7	0.000	25.1	5738.58	Open	Closed	16.3	266
9/16/2024	2:45:00	7	0.000	22.6	5738.58	Open	Closed	16.3	266
9/16/2024	3:00:00	7	0.039	19	5738.58	Open	Closed	16.3	266
9/16/2024	3:15:00	7	0.037	24.2	5738.58	Open	Closed	16.3	268

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	3:30:00	7	0.000	24.2	5738.58	Open	Closed	16.3	266
9/16/2024	3:45:00	7.1	0.039	1.7	5741.02	Closed	Open	16.3	264
9/16/2024	4:00:00	7.1	0.040	1.5	5747.11	Closed	Open	16.3	266
9/16/2024	4:15:00	7.1	0.039	0.9	5753.07	Closed	Open	16.3	268
9/16/2024	4:30:00	7.4	0.038	17.1	5757.55	Open	Closed	14.9	269
9/16/2024	4:45:00	7.5	0.028	16.4	5757.55	Open	Closed	14.9	271
9/16/2024	5:00:00	7.1	0.074	24.8	5757.55	Open	Closed	14.8	277
9/16/2024	5:15:00	7.3	0.079	20.8	5757.55	Open	Closed	14.7	272
9/16/2024	5:30:00	7.5	0.078	18.1	5757.55	Open	Closed	14.7	267
9/16/2024	5:45:00	7.6	0.000	15.1	5757.55	Open	Closed	14.6	266
9/16/2024	6:00:00	7.5	0.024	15	5757.55	Open	Closed	14.9	266
9/16/2024	6:15:00	7.5	0.040	12.9	5757.55	Open	Closed	15.3	266
9/16/2024	6:30:00	7.5	0.037	12.2	5757.55	Open	Closed	16	267
9/16/2024	6:45:00	7.6	0.038	6.7	5757.55	Open	Closed	15.9	266
9/16/2024	7:00:00	7.6	0.000	5.8	5757.55	Open	Closed	16.5	268

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	7:15:00	7.6	0.050	4.8	5757.84	Open	Closed	17	267
9/16/2024	7:30:00	7.6	0.026	4.4	5759.14	Closed	Open	16.8	269
9/16/2024	7:45:00	7.6	0.028	4.2	5762.97	Closed	Open	17.2	271
9/16/2024	8:00:00	7.5	0.000	3.6	5766.38	Closed	Open	17.6	271
9/16/2024	8:15:00	7.5	0.026	4.5	5767.42	Closed	Open	17.9	270
9/16/2024	8:30:00	7.5	0.026	3.9	5771.50	Closed	Open	18.2	271
9/16/2024	8:45:00	7.5	0.033	3.7	5775.79	Closed	Open	18.5	271
9/16/2024	9:00:00	7.5	0.000	3.8	5780.34	Closed	Open	18.9	269
9/16/2024	9:15:00	7.5	0.042	3.9	5784.11	Closed	Open	19	271
9/16/2024	9:30:00	7.5	0.042	3.6	5790.20	Closed	Open	19.3	271
9/16/2024	9:45:00	7.5	0.043	3.5	5796.35	Closed	Open	19.7	271
9/16/2024	10:00:00	7.5	0.000	3.7	5802.49	Closed	Open	19.9	271
9/16/2024	10:15:00	7.5	0.040	3.8	5807.48	Closed	Open	20	271
9/16/2024	10:30:00	7.6	0.039	3.7	5813.60	Closed	Open	20.2	272
9/16/2024	10:45:00	7.7	0.040	3.5	5819.69	Closed	Open	20.4	273

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	11:00:00	7.8	0.029	1.3	5825.44	Closed	Open	15.6	264
9/16/2024	11:15:00	7.8	0.039	1.8	5830.94	Closed	Open	16	264
9/16/2024	11:30:00	7.7	0.000	1.6	5833.21	Open	Closed	16.7	266
9/16/2024	11:45:00	-0.4	0.000	16.4	5833.21	Open	Closed	18.5	271
9/16/2024	12:00:00	-0.4	0.028	5.8	5833.21	Open	Closed	16.3	264
9/16/2024	12:15:00	7.7	0.000	12.6	5833.21	Open	Closed	17.1	268
9/16/2024	12:30:00	7.7	0.040	61.1	5833.21	Open	Closed	16.3	266
9/16/2024	12:45:00	7.6	0.029	53.1	5833.21	Open	Closed	16.8	271
9/16/2024	13:00:00	7.1	0.028	94.4	5833.21	Open	Closed	17	274
9/16/2024	13:15:00	7.3	0.000	175.7	5833.21	Open	Closed	16.7	276
9/16/2024	13:30:00	7.2	0.026	187.5	5833.21	Open	Closed	17.4	276
9/16/2024	13:45:00	7.4	0.000	136.3	5833.21	Open	Closed	17	274
9/16/2024	14:00:00	7.3	0.000	119.9	5833.21	Open	Closed	17.7	278
9/16/2024	14:15:00	7.1	0.030	168.8	5833.21	Open	Closed	17.1	276
9/16/2024	14:30:00	7.1	0.042	145.4	5833.21	Open	Closed	17.5	278

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	14:45:00	7.3	0.047	126	5833.21	Open	Closed	17.5	279
9/16/2024	15:00:00	7.1	0.052	116.1	5833.21	Open	Closed	17.4	277
9/16/2024	15:15:00	7.3	0.051	140.1	5833.21	Open	Closed	17.5	277
9/16/2024	15:30:00	7.2	0.069	180.5	5833.21	Open	Closed	17.6	276
9/16/2024	15:45:00	7.3	0.060	263	5833.21	Open	Closed	17.6	277
9/16/2024	16:00:00	7.2	0.059	270.6	5833.21	Open	Closed	17.7	276
9/16/2024	16:15:00	7.3	0.045	409.2	5833.33	Open	Closed	17.8	277
9/16/2024	16:30:00	7.1	0.033	220.5	5833.33	Open	Closed	17.8	279
9/16/2024	16:45:00	7.3	0.033	217.4	5833.33	Open	Closed	17.8	276
9/16/2024	17:00:00	7	0.034	190.2	5833.33	Open	Closed	17.9	281
9/16/2024	17:15:00	7.1	0.028	337.8	5833.33	Open	Closed	17.9	278
9/16/2024	17:30:00	7.1	0.036	181.9	5833.33	Open	Closed	17.9	283
9/16/2024	17:45:00	7.3	0.035	165.9	5833.33	Open	Closed	17.9	276
9/16/2024	18:00:00	7.1	0.035	136.1	5833.33	Open	Closed	17.9	279
9/16/2024	18:15:00	7.1	0.034	151.8	5833.33	Open	Closed	17.9	281

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	18:30:00	7.3	0.034	164.4	5833.33	Open	Closed	17.8	274
9/16/2024	18:45:00	7.1	0.028	235.6	5833.33	Open	Closed	17.8	281
9/16/2024	19:00:00	7.2	0.027	210.6	5833.33	Open	Closed	17.8	274
9/16/2024	19:15:00	7.3	0.000	149.3	5833.33	Open	Closed	17.8	274
9/16/2024	19:30:00	7	0.022	159.8	5833.33	Open	Closed	17.7	277
9/16/2024	19:45:00	7.1	0.022	142.1	5833.33	Open	Closed	17.7	278
9/16/2024	20:00:00	7.3	0.000	106.3	5833.33	Open	Closed	17.8	272
9/16/2024	20:15:00	7.1	0.020	109.4	5833.33	Open	Closed	17.7	272
9/16/2024	20:30:00	7	0.021	101.9	5833.33	Open	Closed	17.6	275
9/16/2024	20:45:00	7.2	0.000	100.8	5833.33	Open	Closed	17.6	277
9/16/2024	21:00:00	7.2	0.000	101	5833.33	Open	Closed	17.8	276
9/16/2024	21:15:00	7.4	0.017	355.6	5833.33	Open	Closed	17.7	277
9/16/2024	21:30:00	7.2	0.020	90.6	5833.33	Open	Closed	17.3	271
9/16/2024	21:45:00	7.2	0.016	31.4	5833.33	Open	Closed	17.1	271
9/16/2024	22:00:00	7.1	0.000	38	5833.33	Open	Closed	17.3	274

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/16/2024	22:15:00	7.1	0.023	30.6	5833.33	Open	Closed	17.4	276
9/16/2024	22:30:00	7.2	0.025	131.2	5833.33	Open	Closed	17.3	274
9/16/2024	22:45:00	7.3	0.000	43.7	5833.33	Open	Closed	16.9	269
9/16/2024	23:00:00	7.3	0.000	38.3	5833.33	Open	Closed	17	274
9/16/2024	23:15:00	7.3	0.000	38.6	5833.33	Open	Closed	17	274
9/16/2024	23:30:00	7.2	0.023	38.5	5833.33	Open	Closed	17.1	276
9/16/2024	23:45:00	7	0.000	36.6	5833.33	Open	Closed	17.2	277
9/17/2024	0:00:00	7	0.023	38.4	5833.33	Open	Closed	17.3	277
9/17/2024	0:15:00	7.1	0.026	20	5833.33	Open	Closed	17.3	277
9/17/2024	0:30:00	7.2	0.026	16.3	5833.33	Open	Closed	17.3	276
9/17/2024	0:45:00	7.5	0.056	27	5833.33	Open	Closed	16.7	268
9/17/2024	1:00:00	7.2	0.028	9.7	5833.33	Open	Closed	16.4	267
9/17/2024	1:15:00	7	0.028	8.2	5833.33	Open	Closed	16.6	276
9/17/2024	1:30:00	7.2	0.041	8.4	5833.33	Open	Closed	16.9	276
9/17/2024	1:45:00	7.2	0.000	7.8	5833.33	Open	Closed	17.4	274

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	2:00:00	7.3	0.016	11.4	5833.33	Open	Closed	16.3	267
9/17/2024	2:15:00	7.1	0.015	10.8	5833.33	Open	Closed	16.5	272
9/17/2024	2:30:00	6.9	0.000	10.3	5833.33	Open	Closed	17	276
9/17/2024	2:45:00	7.1	0.025	10.2	5833.33	Open	Closed	17.4	277
9/17/2024	3:00:00	7.3	0.000	11.9	5833.33	Open	Closed	16.9	274
9/17/2024	3:15:00	7.1	0.022	12	5833.33	Open	Closed	17.8	272
9/17/2024	3:30:00	7	0.030	12.1	5833.33	Open	Closed	17.7	269
9/17/2024	3:45:00	7	0.028	11.2	5833.33	Open	Closed	17.2	271
9/17/2024	4:00:00	7.2	0.028	10.8	5833.33	Open	Closed	16.4	269
9/17/2024	4:15:00	7.1	0.029	12.4	5833.33	Open	Closed	17.7	271
9/17/2024	4:30:00	7.3	0.055	89.4	5837.92	Closed	Open	18.3	271
9/17/2024	4:45:00	7.2	0.049	23.1	5843.68	Closed	Open	15.8	269
9/17/2024	5:00:00	7.2	0.046	13.2	5850.89	Closed	Open	16	269
9/17/2024	5:15:00	7.3	0.037	12.9	5852.44	Closed	Open	16.1	271
9/17/2024	5:30:00	7.3	0.038	12.9	5858.02	Closed	Open	16.5	271

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	5:45:00	7.3	0.000	12.9	5859.90	Closed	Open	17	269
9/17/2024	6:00:00	7.3	0.033	12.8	5861.27	Open	Closed	17.4	271
9/17/2024	6:15:00	7	0.017	14.2	5861.27	Open	Closed	18.6	271
9/17/2024	6:30:00	7	0.016	13.4	5861.27	Open	Closed	19	273
9/17/2024	6:45:00	7	0.025	13.6	5861.27	Open	Closed	19.2	272
9/17/2024	7:00:00	7	0.000	13.2	5861.27	Open	Closed	19.5	271
9/17/2024	7:15:00	7	0.014	13.6	5861.27	Open	Closed	19.6	271
9/17/2024	7:30:00	7	0.013	12.1	5861.27	Open	Closed	19.8	273
9/17/2024	7:45:00	7	0.020	12.4	5861.32	Closed	Open	20	271
9/17/2024	8:00:00	7	0.034	12.7	5865.37	Closed	Open	20.1	271
9/17/2024	8:15:00	7	0.040	11.8	5871.31	Closed	Open	20.2	271
9/17/2024	8:30:00	7	0.039	13.3	5877.40	Closed	Open	20.3	271
9/17/2024	8:45:00	7	0.033	12.9	5882.69	Closed	Open	20.3	273
9/17/2024	9:00:00	7.6	0.062	21.7	5890.45	Closed	Open	19.8	271
9/17/2024	9:15:00	7.2	0.027	27.5	5897.74	Open	Closed	16.4	266

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	9:30:00	7.2	0.022	25.6	5897.74	Open	Closed	15.4	269
9/17/2024	9:45:00	7.3	0.021	22.3	5897.74	Open	Closed	15.7	269
9/17/2024	10:00:00	7.1	0.020	24.6	5897.74	Open	Closed	15.4	269
9/17/2024	10:15:00	7.3	0.029	22.3	5897.74	Open	Closed	15.4	267
9/17/2024	10:30:00	7.1	0.028	19.1	5897.74	Open	Closed	15.4	269
9/17/2024	10:45:00	7.3	0.026	17.5	5897.74	Open	Closed	15.6	269
9/17/2024	11:00:00	7.2	0.026	21.7	5897.74	Open	Closed	15.7	271
9/17/2024	11:15:00	7.2	0.034	15.6	5897.74	Open	Closed	15.8	268
9/17/2024	11:30:00	7.3	0.035	17.1	5902.35	Closed	Open	15.7	271
9/17/2024	11:45:00	7.2	0.036	17.4	5907.77	Closed	Open	15.6	267
9/17/2024	12:00:00	7.1	0.037	17.5	5913.21	Closed	Open	15.5	268
9/17/2024	12:15:00	7.1	0.046	17.6	5920.00	Closed	Open	15.5	266
9/17/2024	12:30:00	7.1	0.044	16.9	5926.77	Closed	Open	15.5	268
9/17/2024	12:45:00	7.1	0.045	15.7	5933.57	Closed	Open	15.5	270
9/17/2024	13:00:00	7.2	0.062	13.9	5941.08	Closed	Open	15.6	267

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	13:15:00	7.3	0.065	13.3	5950.55	Closed	Open	15.5	267
9/17/2024	13:30:00	7.3	0.059	11.5	5959.99	Closed	Open	15.5	265
9/17/2024	13:45:00	7.3	0.054	25.6	5968.99	Closed	Open	15.5	263
9/17/2024	14:00:00	7.1	0.064	9.5	5978.40	Closed	Open	15.5	263
9/17/2024	14:15:00	7.2	0.082	7.6	5988.62	Closed	Open	15.4	265
9/17/2024	14:30:00	7.3	0.048	6.3	5999.61	Closed	Open	15.3	259
9/17/2024	14:45:00	7.3	0.044	4.6	6006.36	Closed	Open	15.3	262
9/17/2024	15:00:00	7.2	0.044	3.3	6013.16	Closed	Open	15.3	262
9/17/2024	15:15:00	7.1	0.044	2.4	6019.97	Closed	Open	15.3	262
9/17/2024	15:30:00	7.1	0.044	2	6026.73	Closed	Open	15.3	262
9/17/2024	15:45:00	7.2	0.044	1.5	6033.54	Closed	Open	15.3	262
9/17/2024	16:00:00	7.2	0.044	1.3	6040.34	Closed	Open	15.3	262
9/17/2024	16:15:00	7.3	0.044	0.9	6047.11	Closed	Open	15.3	263
9/17/2024	16:30:00	7.3	0.045	0.8	6053.91	Closed	Open	15.3	262
9/17/2024	16:45:00	7.2	0.044	0.6	6060.72	Closed	Open	15.2	260

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	17:00:00	7.2	0.044	0.6	6067.48	Closed	Open	15.2	264
9/17/2024	17:15:00	7.1	0.043	0.6	6074.27	Closed	Open	15.2	264
9/17/2024	17:30:00	7.1	0.043	0.6	6080.94	Closed	Open	15.2	264
9/17/2024	17:45:00	7.1	0.043	0.6	6087.61	Closed	Open	15.2	263
9/17/2024	18:00:00	7.2	0.043	0.6	6094.20	Closed	Open	15.1	263
9/17/2024	18:15:00	7.2	0.043	0.8	6100.67	Closed	Open	15	263
9/17/2024	18:30:00	7.2	0.043	2.2	6107.30	Closed	Open	15	262
9/17/2024	18:45:00	7.3	0.043	4.5	6112.71	Closed	Open	14.9	261
9/17/2024	19:00:00	7.1	0.026	5.6	6112.85	Open	Closed	14.9	264
9/17/2024	19:15:00	7.1	0.033	3	6112.85	Open	Closed	14.9	263
9/17/2024	19:30:00	7.1	0.044	3.8	6112.85	Open	Closed	15.2	264
9/17/2024	19:45:00	7.6	0.035	411.6	6112.85	Open	Closed	14.7	261
9/17/2024	20:00:00	7.1	0.680	34	6112.85	Open	Closed	14.6	263
9/17/2024	20:15:00	7	0.025	27.7	6112.85	Open	Closed	14.6	263
9/17/2024	20:30:00	7.1	0.000	13.8	6112.85	Open	Closed	15	264

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/17/2024	20:45:00	7	0.023	15.3	6112.85	Open	Closed	14.7	263
9/17/2024	21:00:00	7.1	0.022	8.8	6112.85	Open	Closed	15	263
9/17/2024	21:15:00	7.1	0.022	7.4	6112.85	Open	Closed	15.3	266
9/17/2024	21:30:00	7.1	0.022	7.7	6112.85	Open	Closed	15.6	264
9/17/2024	21:45:00	7.2	0.023	8.1	6112.85	Open	Closed	14.7	262
9/17/2024	22:00:00	7.2	0.023	7.6	6112.85	Open	Closed	14.7	261
9/17/2024	22:15:00	7.2	0.023	8.9	6112.85	Open	Closed	14.6	259
9/17/2024	22:30:00	7.3	0.023	9.7	6112.85	Open	Closed	14.6	261
9/17/2024	22:45:00	7.4	0.029	6.2	6114.10	Closed	Open	14.9	264
9/17/2024	23:00:00	7.3	0.029	6	6118.83	Closed	Open	15.2	264
9/17/2024	23:15:00	7.1	0.029	9.4	6120.67	Open	Closed	15.6	264
9/17/2024	23:30:00	7.1	0.021	7.1	6120.67	Open	Closed	15.9	264
9/17/2024	23:45:00	7.4	0.036	9.4	6122.58	Closed	Open	16.3	264
9/18/2024	0:00:00	7.2	0.027	7.3	6125.19	Closed	Open	14.7	264
9/18/2024	0:15:00	7.2	0.028	7.5	6129.27	Closed	Open	14.7	266

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	0:30:00	7.2	0.017	156.1	6133.23	Closed	Open	14.6	268
9/18/2024	0:45:00	7.1	0.027	9.4	6134.93	Closed	Open	14.6	267
9/18/2024	1:00:00	7.1	0.033	6.9	6139.42	Closed	Open	14.7	267
9/18/2024	1:15:00	7.1	0.034	6.9	6144.22	Closed	Open	14.7	264
9/18/2024	1:30:00	7.1	0.034	7.4	6149.29	Closed	Open	14.8	264
9/18/2024	1:45:00	7.1	0.034	8.3	6154.34	Closed	Open	14.8	265
9/18/2024	2:00:00	7.2	0.034	9.7	6159.41	Closed	Open	14.8	265
9/18/2024	2:15:00	7.2	0.034	8.7	6164.28	Closed	Open	14.8	263
9/18/2024	2:30:00	7.2	0.033	8.8	6169.14	Closed	Open	14.8	264
9/18/2024	2:45:00	7.1	0.037	7.1	6172.46	Closed	Open	14.8	262
9/18/2024	3:00:00	7.2	0.036	6.9	6177.91	Closed	Open	14.8	264
9/18/2024	3:15:00	7.3	0.037	7.8	6183.35	Closed	Open	14.8	264
9/18/2024	3:30:00	7.4	0.023	6.4	6188.59	Closed	Open	14.8	264
9/18/2024	3:45:00	7.3	0.036	4.7	6193.94	Closed	Open	14.8	264
9/18/2024	4:00:00	7.3	0.036	4.8	6199.39	Closed	Open	14.7	264

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	4:15:00	7.3	0.036	4.9	6204.83	Closed	Open	14.7	264
9/18/2024	4:30:00	7.3	0.036	4.8	6210.24	Closed	Open	14.6	263
9/18/2024	4:45:00	7.3	0.027	6	6215.65	Closed	Open	14.5	263
9/18/2024	5:00:00	7	0.020	3.5	6218.07	Closed	Open	14.6	266
9/18/2024	5:15:00	7	0.023	5.6	6221.45	Closed	Open	14.5	266
9/18/2024	5:30:00	7.2	0.023	6.6	6224.85	Closed	Open	14.5	262
9/18/2024	5:45:00	7.3	0.026	9.2	6228.71	Closed	Open	14.5	264
9/18/2024	6:00:00	7.3	0.027	9.5	6232.77	Closed	Open	14.4	264
9/18/2024	6:15:00	7	0.027	11.1	6236.86	Closed	Open	14.5	266
9/18/2024	6:30:00	7.4	0.022	10.3	6239.46	Closed	Open	14.9	264
9/18/2024	6:45:00	7.2	0.025	14.6	6243.41	Closed	Open	14.4	264
9/18/2024	7:00:00	7	0.020	13.5	6244.78	Open	Closed	14.4	265
9/18/2024	7:15:00	7.2	0.017	14.6	6244.78	Open	Closed	14.4	265
9/18/2024	7:30:00	7.1	0.000	11.6	6244.78	Open	Closed	14.7	267
9/18/2024	7:45:00	7	0.025	16	6244.78	Open	Closed	15.8	268

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	8:00:00	7.3	0.025	5.9	6244.78	Open	Closed	14.7	266
9/18/2024	8:15:00	7.3	0.025	5.4	6244.78	Open	Closed	14.5	265
9/18/2024	8:30:00	7	0.000	12.8	6244.78	Open	Closed	14.7	263
9/18/2024	8:45:00	7.1	0.028	4.7	6244.78	Open	Closed	14.5	263
9/18/2024	9:00:00	7.3	0.028	4.3	6244.78	Open	Closed	14.5	265
9/18/2024	9:15:00	7.2	0.028	5.7	6244.78	Open	Closed	14.6	263
9/18/2024	9:30:00	7	0.027	5	6244.78	Open	Closed	14.6	265
9/18/2024	9:45:00	7.2	0.028	5.7	6244.78	Open	Closed	14.7	266
9/18/2024	10:00:00	7.3	0.028	6.3	6244.78	Open	Closed	14.9	265
9/18/2024	10:15:00	7.1	0.031	9	6248.24	Closed	Open	15.1	265
9/18/2024	10:30:00	7.1	0.031	12.6	6252.97	Closed	Open	15.2	264
9/18/2024	10:45:00	7.4	0.031	19.2	6257.74	Closed	Open	15.3	266
9/18/2024	11:00:00	7.1	0.031	32	6262.50	Closed	Open	15.5	264
9/18/2024	11:15:00	7.1	0.030	76.9	6264.27	Open	Closed	15.2	266
9/18/2024	11:30:00	7.1	0.030	144.7	6264.27	Open	Closed	15.3	266

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	11:45:00	7.2	0.030	311.2	6264.27	Open	Closed	15.4	266
9/18/2024	12:00:00	7.3	0.030	413.9	6264.27	Open	Closed	15.5	267
9/18/2024	12:15:00	7.4	0.000	413.9	6264.27	Open	Closed	15.6	269
9/18/2024	12:30:00	7.3	0.000	413.9	6264.27	Open	Closed	16.2	269
9/18/2024	12:45:00	7.3	0.000	67.5	6264.27	Open	Closed	16.8	271
9/18/2024	13:00:00	7.3	0.039	56.1	6264.27	Open	Closed	17.5	272
9/18/2024	13:15:00	7.3	0.000	58.1	6264.27	Open	Closed	18.1	271
9/18/2024	13:30:00	7.3	0.000	60.9	6264.27	Open	Closed	18.6	271
9/18/2024	13:45:00	7.1	0.000	414	6264.27	Open	Closed	16.1	274
9/18/2024	14:00:00	7.4	0.040	414	6264.27	Open	Closed	16.2	271
9/18/2024	14:15:00	7.2	0.000	413.9	6264.27	Open	Closed	16.3	281
9/18/2024	14:30:00	7.1	0.050	413.9	6264.27	Open	Closed	16.4	281
9/18/2024	14:45:00	7.3	0.049	413.8	6264.27	Open	Closed	16.5	279
9/18/2024	15:00:00	7.2	0.000	413.8	6264.27	Open	Closed	16.9	281
9/18/2024	15:15:00	7.5	0.028	413.7	6264.27	Open	Closed	16.7	278

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	15:30:00	7.3	0.000	380.8	6264.27	Open	Closed	17.1	278
9/18/2024	15:45:00	7.1	0.046	413.2	6264.27	Open	Closed	16.8	281
9/18/2024	16:00:00	7.3	0.076	413.6	6264.27	Open	Closed	17.4	281
9/18/2024	16:15:00	7.2	0.067	413.7	6264.27	Open	Closed	17	279
9/18/2024	16:30:00	7.2	0.065	413.7	6264.27	Open	Closed	17	279
9/18/2024	16:45:00	7.3	0.000	397.9	6264.27	Open	Closed	17	279
9/18/2024	17:00:00	7.1	0.062	336.4	6264.27	Open	Closed	17	278
9/18/2024	17:15:00	7.4	0.061	258.9	6264.27	Open	Closed	17	277
9/18/2024	17:30:00	7.2	0.000	199.9	6264.27	Open	Closed	17.2	276
9/18/2024	17:45:00	7.1	0.062	207.8	6264.27	Open	Closed	17	274
9/18/2024	18:00:00	7.3	0.061	162.9	6264.27	Open	Closed	16.9	272
9/18/2024	18:15:00	7.2	0.061	145.8	6264.27	Open	Closed	16.9	274
9/18/2024	18:30:00	7.2	0.060	117.1	6264.27	Open	Closed	16.8	272
9/18/2024	18:45:00	7.2	0.044	73.3	6264.27	Open	Closed	16.7	273
9/18/2024	19:00:00	7.3	0.000	61	6264.27	Open	Closed	17.2	276

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	19:15:00	7.3	0.043	48.4	6264.27	Open	Closed	17.5	274
9/18/2024	19:30:00	7	0.041	53	6264.27	Open	Closed	16.6	273
9/18/2024	19:45:00	7.3	0.051	45.7	6264.27	Open	Closed	16.6	272
9/18/2024	20:00:00	7.4	0.065	44.6	6264.27	Open	Closed	16.9	271
9/18/2024	20:15:00	7.1	0.058	55.7	6264.27	Open	Closed	16.7	272
9/18/2024	20:30:00	7.2	0.000	51.6	6264.27	Open	Closed	16.7	277
9/18/2024	20:45:00	7.3	0.058	77.6	6264.27	Open	Closed	16.3	270
9/18/2024	21:00:00	7.2	0.039	71.1	6264.27	Open	Closed	16.2	273
9/18/2024	21:15:00	7.3	0.038	55	6264.27	Open	Closed	16.2	270
9/18/2024	21:30:00	7.1	0.037	48	6264.27	Open	Closed	16.2	269
9/18/2024	21:45:00	7.3	0.053	42.3	6264.27	Open	Closed	16.1	270
9/18/2024	22:00:00	7.1	0.052	38	6264.27	Open	Closed	16.1	269
9/18/2024	22:15:00	7.3	0.052	37.5	6264.27	Open	Closed	16	269
9/18/2024	22:30:00	7.1	0.011	23.7	6264.27	Open	Closed	16	270
9/18/2024	22:45:00	7.3	0.047	92	6264.27	Open	Closed	16.1	269

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/18/2024	23:00:00	7.3	0.054	97.6	6264.27	Open	Closed	16.3	270
9/18/2024	23:15:00	7.3	0.000	91.9	6264.27	Open	Closed	16.5	270
9/18/2024	23:30:00	7	0.035	9.4	6264.27	Open	Closed	15.8	266
9/18/2024	23:45:00	7.1	0.036	6.3	6267.72	Closed	Open	15.9	268
9/19/2024	0:00:00	7.1	0.036	6.1	6273.13	Closed	Open	16.1	269
9/19/2024	0:15:00	7.1	0.035	6.2	6278.58	Closed	Open	16.3	271
9/19/2024	0:30:00	7.1	0.036	5.8	6284.02	Closed	Open	16.5	271
9/19/2024	0:45:00	7.1	0.035	5.9	6289.43	Closed	Open	16.7	273
9/19/2024	1:00:00	7.1	0.035	4.9	6294.88	Closed	Open	16.8	273
9/19/2024	1:15:00	7.1	0.034	5.2	6300.32	Closed	Open	16.9	271
9/19/2024	1:30:00	7	0.035	4.8	6305.73	Closed	Open	17.1	271
9/19/2024	1:45:00	7	0.035	4.7	6311.17	Closed	Open	17.2	271
9/19/2024	2:00:00	7.2	0.000	36.5	6315.74	Open	Closed	17.2	271
9/19/2024	2:15:00	7.5	0.000	150.1	6315.74	Open	Closed	15.6	266
9/19/2024	2:30:00	7.1	0.036	96.8	6315.74	Open	Closed	15.6	265

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	2:45:00	7.1	0.011	91.1	6315.74	Open	Closed	15.3	269
9/19/2024	3:00:00	7.4	0.022	53.8	6315.74	Open	Closed	15.4	269
9/19/2024	3:15:00	7.1	0.026	62.7	6315.74	Open	Closed	15.4	269
9/19/2024	3:30:00	7.1	0.025	41.9	6315.74	Open	Closed	15.5	268
9/19/2024	3:45:00	7.4	0.020	87.1	6315.74	Open	Closed	15.3	264
9/19/2024	4:00:00	7.4	0.030	1.3	6315.74	Open	Closed	15.4	262
9/19/2024	4:15:00	7	0.030	81.6	6315.74	Open	Closed	15.3	264
9/19/2024	4:30:00	7.1	0.033	20.9	6315.74	Open	Closed	15.2	266
9/19/2024	4:45:00	7.3	0.034	10.8	6316.27	Closed	Open	15.2	262
9/19/2024	5:00:00	7	0.034	7.9	6321.17	Closed	Open	15.2	266
9/19/2024	5:15:00	7.3	0.035	7.6	6326.29	Closed	Open	15.2	264
9/19/2024	5:30:00	7	0.034	8.2	6331.68	Closed	Open	15.2	266
9/19/2024	5:45:00	7.2	0.035	8.9	6337.09	Closed	Open	15.2	266
9/19/2024	6:00:00	7.1	0.034	8.3	6342.45	Closed	Open	15.2	267
9/19/2024	6:15:00	7.1	0.034	8.5	6347.85	Closed	Open	15.2	266

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	6:30:00	7.3	0.034	7.9	6353.19	Closed	Open	15.3	264
9/19/2024	6:45:00	7.1	0.035	8.3	6358.43	Closed	Open	15.3	264
9/19/2024	7:00:00	7.4	0.023	8.8	6363.72	Closed	Open	15.3	263
9/19/2024	7:15:00	7.2	0.033	32.7	6365.02	Closed	Open	15.4	262
9/19/2024	7:30:00	7	0.034	9.1	6365.89	Closed	Open	15.3	267
9/19/2024	7:45:00	7.4	0.033	6.8	6370.66	Closed	Open	15.3	262
9/19/2024	8:00:00	7	0.033	7.1	6375.42	Closed	Open	15.3	263
9/19/2024	8:15:00	7.2	0.033	7.5	6380.16	Closed	Open	15.3	263
9/19/2024	8:30:00	7.1	0.033	7.4	6384.92	Closed	Open	15.3	265
9/19/2024	8:45:00	7.1	0.033	8	6389.68	Closed	Open	15.2	267
9/19/2024	9:00:00	7.3	0.033	8.4	6394.42	Closed	Open	15.2	262
9/19/2024	9:15:00	7	0.033	8.9	6399.18	Closed	Open	15.3	266
9/19/2024	9:30:00	7.4	0.034	10.7	6404.01	Closed	Open	15.3	264
9/19/2024	9:45:00	7.1	0.034	7.6	6409.38	Closed	Open	15.3	263
9/19/2024	10:00:00	7.1	0.034	13.5	6414.77	Closed	Open	15.8	265

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	10:15:00	7.3	0.034	14.8	6420.17	Closed	Open	15.6	265
9/19/2024	10:30:00	7	0.035	14.5	6425.52	Closed	Open	15.7	264
9/19/2024	10:45:00	7.3	0.034	15.9	6430.90	Closed	Open	15.7	265
9/19/2024	11:00:00	7.2	0.034	17.5	6436.22	Closed	Open	15.7	262
9/19/2024	11:15:00	7	0.034	22.4	6441.40	Closed	Open	15.8	262
9/19/2024	11:30:00	7.3	0.034	43.9	6446.74	Closed	Open	15.7	262
9/19/2024	11:45:00	7.1	0.034	66.6	6451.61	Open	Closed	15.6	260
9/19/2024	12:00:00	7.2	0.026	399.1	6451.61	Open	Closed	15.8	260
9/19/2024	12:15:00	7.3	0.034	414.2	6451.61	Open	Closed	15.9	257
9/19/2024	12:30:00	7	0.035	414.1	6451.61	Open	Closed	16.1	262
9/19/2024	12:45:00	7.4	0.035	353.8	6451.61	Open	Closed	16.2	259
9/19/2024	13:00:00	7.1	0.000	147.1	6451.61	Open	Closed	16.3	262
9/19/2024	13:15:00	7.1	0.000	130.5	6451.61	Open	Closed	16.4	264
9/19/2024	13:30:00	7.2	0.000	74.1	6451.61	Open	Closed	17	264
9/19/2024	13:45:00	7.3	0.036	114.8	6451.61	Open	Closed	16.8	262

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	14:00:00	7.1	0.000	31.6	6451.61	Open	Closed	17	262
9/19/2024	14:15:00	7.3	0.033	41.2	6451.61	Open	Closed	16.8	262
9/19/2024	14:30:00	7.2	0.034	16.6	6455.20	Closed	Open	16.8	262
9/19/2024	14:45:00	7.1	0.033	11.7	6455.98	Open	Closed	16.9	264
9/19/2024	15:00:00	7.4	0.033	13.9	6455.98	Open	Closed	17	264
9/19/2024	15:15:00	7.1	0.030	11.9	6458.32	Closed	Open	17.1	266
9/19/2024	15:30:00	7.2	0.030	12.9	6463.08	Closed	Open	17.2	266
9/19/2024	15:45:00	7.3	0.030	18.5	6467.81	Closed	Open	17.3	264
9/19/2024	16:00:00	7	0.031	24.4	6472.57	Closed	Open	17.5	268
9/19/2024	16:15:00	7.3	0.031	34.2	6477.33	Closed	Open	17.5	264
9/19/2024	16:30:00	7.1	0.030	53.9	6482.07	Closed	Open	17.6	266
9/19/2024	16:45:00	7.1	0.030	48.8	6485.08	Open	Closed	17.6	268
9/19/2024	17:00:00	7.3	0.031	52.9	6485.08	Open	Closed	17.6	266
9/19/2024	17:15:00	7	0.030	60.2	6485.08	Open	Closed	17.6	269
9/19/2024	17:30:00	7.3	0.031	62.2	6485.08	Open	Closed	17.5	266

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	17:45:00	7.4	0.000	54.5	6485.08	Open	Closed	17.7	266
9/19/2024	18:00:00	7.3	0.000	43.5	6485.08	Open	Closed	18	264
9/19/2024	18:15:00	7.1	0.061	146.6	6485.08	Open	Closed	17.4	265
9/19/2024	18:30:00	7.3	0.067	107.1	6485.08	Open	Closed	17.2	268
9/19/2024	18:45:00	7.1	0.063	115.4	6485.08	Open	Closed	17	270
9/19/2024	19:00:00	7.3	0.055	105.2	6485.08	Open	Closed	16.9	270
9/19/2024	19:15:00	7.1	0.062	86	6485.08	Open	Closed	16.8	270
9/19/2024	19:30:00	7.3	0.065	73.8	6485.08	Open	Closed	16.8	270
9/19/2024	19:45:00	7.2	0.062	104.7	6485.08	Open	Closed	16.7	268
9/19/2024	20:00:00	7.2	0.062	57.4	6485.08	Open	Closed	16.6	268
9/19/2024	20:15:00	7.3	0.062	56.5	6485.08	Open	Closed	16.5	268
9/19/2024	20:30:00	7.1	0.061	54.3	6485.08	Open	Closed	16.5	268
9/19/2024	20:45:00	7.3	0.016	61.6	6485.08	Open	Closed	16.5	268
9/19/2024	21:00:00	7.3	0.000	47.1	6485.08	Open	Closed	16.5	269
9/19/2024	21:15:00	7.1	0.031	120.6	6485.08	Open	Closed	16.4	270

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/19/2024	21:30:00	7.1	0.000	47.3	6485.08	Open	Closed	16.4	274
9/19/2024	21:45:00	7.1	0.036	96.1	6485.08	Open	Closed	16.5	273
9/19/2024	22:00:00	7.2	0.048	414.8	6485.08	Open	Closed	16.5	272
9/19/2024	22:15:00	7.5	0.060	70	6485.08	Open	Closed	16.1	269
9/19/2024	22:30:00	7.2	0.029	33.8	6485.08	Open	Closed	15.9	268
9/19/2024	22:45:00	7.2	0.029	33.7	6486.99	Closed	Open	16.2	269
9/19/2024	23:00:00	6.9	0.040	15.7	6492.42	Closed	Open	15.8	269
9/19/2024	23:15:00	7.3	0.039	10.2	6498.52	Closed	Open	15.8	268
9/19/2024	23:30:00	7.1	0.037	6.5	6503.96	Closed	Open	15.6	268
9/19/2024	23:45:00	7.2	0.037	5.7	6509.41	Closed	Open	15.6	266
9/20/2024	0:00:00	7.2	0.037	5.8	6514.85	Closed	Open	15.5	266
9/20/2024	0:15:00	7.1	0.037	6.8	6520.26	Closed	Open	15.5	266
9/20/2024	0:30:00	7.3	0.037	8.3	6525.71	Closed	Open	15.5	264
9/20/2024	0:45:00	7.1	0.037	9.2	6531.15	Closed	Open	15.5	267
9/20/2024	1:00:00	7.4	0.036	11.4	6536.56	Closed	Open	15.4	265

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	1:15:00	7.2	0.035	10.5	6542.00	Closed	Open	15.6	264
9/20/2024	1:30:00	7	0.012	11.9	6543.85	Closed	Open	15.7	268
9/20/2024	1:45:00	7.3	0.033	20.2	6548.65	Closed	Open	15.2	264
9/20/2024	2:00:00	7.1	0.033	16.1	6553.42	Closed	Open	15.1	264
9/20/2024	2:15:00	7.2	0.035	20.4	6558.68	Closed	Open	15.1	266
9/20/2024	2:30:00	7.4	0.027	18.3	6563.58	Closed	Open	15.1	262
9/20/2024	2:45:00	7.3	0.012	22.9	6567.84	Closed	Open	15.8	263
9/20/2024	3:00:00	7.1	0.032	46.1	6567.90	Open	Closed	14.8	263
9/20/2024	3:15:00	7.3	0.017	17.5	6567.90	Open	Closed	14.8	263
9/20/2024	3:30:00	7.4	0.028	14.5	6570.88	Closed	Open	15.1	263
9/20/2024	3:45:00	7.3	0.028	11.5	6574.96	Closed	Open	15.5	261
9/20/2024	4:00:00	7.3	0.028	10.3	6579.02	Closed	Open	15.8	262
9/20/2024	4:15:00	7.3	0.027	9.7	6583.10	Closed	Open	16.1	261
9/20/2024	4:30:00	7.3	0.028	10.4	6587.18	Closed	Open	16.4	262
9/20/2024	4:45:00	7.3	0.028	12.4	6591.16	Closed	Open	16.6	263

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	5:00:00	7.3	0.028	11.3	6595.25	Closed	Open	16.8	263
9/20/2024	5:15:00	7.3	0.028	11.6	6599.33	Closed	Open	17	261
9/20/2024	5:30:00	7.3	0.028	11.3	6603.39	Closed	Open	17.2	261
9/20/2024	5:45:00	7.3	0.028	11.6	6607.47	Closed	Open	17.3	261
9/20/2024	6:00:00	7.3	0.028	11.1	6611.55	Closed	Open	17.4	262
9/20/2024	6:15:00	7.3	0.027	11.6	6615.61	Closed	Open	17.6	263
9/20/2024	6:30:00	7.3	0.027	10.7	6619.69	Closed	Open	17.6	262
9/20/2024	6:45:00	7.3	0.027	10	6623.61	Closed	Open	17.8	261
9/20/2024	7:00:00	7.3	0.000	15.1	6623.70	Open	Closed	18.1	262
9/20/2024	7:15:00	6.9	0.000	40.7	6623.70	Open	Closed	14.6	261
9/20/2024	7:30:00	7	0.026	27.8	6623.70	Open	Closed	14.4	261
9/20/2024	7:45:00	7.3	0.031	16.1	6623.86	Open	Closed	14.3	256
9/20/2024	8:00:00	7.2	0.031	13.4	6625.10	Closed	Open	14.7	255
9/20/2024	8:15:00	7.2	0.031	10.8	6629.87	Closed	Open	15.1	255
9/20/2024	8:30:00	7.2	0.031	9.8	6634.60	Closed	Open	15.5	256

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	8:45:00	7.2	0.030	10.6	6639.37	Closed	Open	15.8	256
9/20/2024	9:00:00	7.2	0.030	8	6644.13	Closed	Open	16.1	256
9/20/2024	9:15:00	7.2	0.031	9.3	6648.87	Closed	Open	16.5	257
9/20/2024	9:30:00	7.1	0.030	8.6	6653.63	Closed	Open	16.7	257
9/20/2024	9:45:00	7.1	0.030	8.1	6658.39	Closed	Open	17	255
9/20/2024	10:00:00	7.1	0.031	7.7	6663.13	Closed	Open	17.2	255
9/20/2024	10:15:00	7.1	0.030	7.8	6667.89	Closed	Open	17.5	256
9/20/2024	10:30:00	7.1	0.030	8.2	6672.65	Closed	Open	17.7	255
9/20/2024	10:45:00	7.1	0.030	9.1	6677.39	Closed	Open	17.9	255
9/20/2024	11:00:00	7.1	0.031	8.9	6682.15	Closed	Open	18.1	255
9/20/2024	11:15:00	7.1	0.030	7.8	6686.91	Closed	Open	18.3	255
9/20/2024	11:30:00	7.1	0.031	7.9	6691.65	Closed	Open	18.4	253
9/20/2024	11:45:00	7.1	0.031	7.8	6696.41	Closed	Open	18.6	254
9/20/2024	12:00:00	7.1	0.030	8	6701.18	Closed	Open	18.8	254
9/20/2024	12:15:00	7.1	0.031	7.7	6705.91	Closed	Open	18.9	253

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	12:30:00	7.1	0.030	7.7	6710.68	Closed	Open	19	254
9/20/2024	12:45:00	7.1	0.031	7.5	6715.44	Closed	Open	19.2	256
9/20/2024	13:00:00	7.1	0.031	7.6	6720.17	Closed	Open	19.4	256
9/20/2024	13:15:00	7.1	0.031	7.4	6724.94	Closed	Open	19.6	254
9/20/2024	13:30:00	7.1	0.031	7.3	6729.70	Closed	Open	19.8	256
9/20/2024	13:45:00	7.2	0.031	9.4	6734.44	Closed	Open	20.1	118
9/20/2024	14:00:00	7.2	0.031	6.2	6739.20	Closed	Open	20.3	118
9/20/2024	14:15:00	7.2	0.031	6.7	6743.80	Open	Closed	20.6	254
9/20/2024	14:30:00	7.2	0.000	6.4	6743.80	Open	Closed	21.2	255
9/20/2024	14:45:00	7.3	0.000	7	6743.80	Open	Closed	21.6	255
9/20/2024	15:00:00	7.3	0.080	385.5	6743.80	Open	Closed	17.6	251
9/20/2024	15:15:00	7.2	0.037	109.3	6743.80	Open	Closed	17.7	253
9/20/2024	15:30:00	7.2	0.040	33.5	6743.80	Open	Closed	17.8	252
9/20/2024	15:45:00	7.3	0.036	14.9	6743.80	Open	Closed	17.8	253
9/20/2024	16:00:00	7.1	0.036	15.7	6746.59	Closed	Open	17.8	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	16:15:00	7.4	0.034	16.6	6752.02	Closed	Open	17.7	253
9/20/2024	16:30:00	7	0.034	16.7	6757.24	Closed	Open	17.7	256
9/20/2024	16:45:00	7.3	0.033	17.2	6762.31	Closed	Open	17.6	255
9/20/2024	17:00:00	7.1	0.035	16.6	6767.74	Closed	Open	17.5	254
9/20/2024	17:15:00	7.2	0.035	18.2	6773.18	Closed	Open	17.5	254
9/20/2024	17:30:00	7.2	0.034	20.9	6778.59	Closed	Open	17.4	254
9/20/2024	17:45:00	7.1	0.031	21.6	6782.27	Open	Closed	17.3	256
9/20/2024	18:00:00	7.3	0.031	2.5	6785.02	Open	Closed	17.5	255
9/20/2024	18:15:00	7.2	0.045	138.5	6785.02	Open	Closed	17	255
9/20/2024	18:30:00	7.1	0.032	70.5	6785.02	Open	Closed	16.8	257
9/20/2024	18:45:00	7.3	0.032	68.7	6785.02	Open	Closed	16.6	255
9/20/2024	19:00:00	7.1	0.033	60.7	6785.02	Open	Closed	16.5	257
9/20/2024	19:15:00	7.1	0.029	80.2	6785.02	Open	Closed	16.4	257
9/20/2024	19:30:00	7.6	0.039	54.7	6785.02	Open	Closed	16.9	257
9/20/2024	19:45:00	7.1	0.041	53.3	6785.02	Open	Closed	16.2	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	20:00:00	7.1	0.035	26.4	6785.02	Open	Closed	16.1	257
9/20/2024	20:15:00	7.4	0.036	6.7	6789.77	Closed	Open	16	257
9/20/2024	20:30:00	7	0.036	3	6795.19	Closed	Open	15.9	256
9/20/2024	20:45:00	7.2	0.037	2.6	6800.63	Closed	Open	15.8	259
9/20/2024	21:00:00	7.3	0.036	3.4	6806.07	Closed	Open	15.8	256
9/20/2024	21:15:00	7	0.035	3.9	6811.48	Closed	Open	15.6	258
9/20/2024	21:30:00	7.3	0.035	4.5	6816.92	Closed	Open	15.5	256
9/20/2024	21:45:00	7.1	0.035	4.6	6822.34	Closed	Open	15.4	259
9/20/2024	22:00:00	7.1	0.034	5.7	6827.73	Closed	Open	15.3	259
9/20/2024	22:15:00	7.3	0.034	6.5	6833.11	Closed	Open	15.3	255
9/20/2024	22:30:00	7	0.034	9.5	6838.48	Closed	Open	15.2	259
9/20/2024	22:45:00	7.2	0.034	10.7	6843.87	Closed	Open	15.1	259
9/20/2024	23:00:00	7.3	0.036	11.6	6849.28	Closed	Open	15	256
9/20/2024	23:15:00	7	0.034	14.1	6854.76	Closed	Open	14.9	259
9/20/2024	23:30:00	7.3	0.034	13.9	6860.10	Closed	Open	14.8	256

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/20/2024	23:45:00	7.2	0.035	17.9	6861.98	Open	Closed	14.7	259
9/21/2024	0:00:00	7.1	0.035	19.7	6861.98	Open	Closed	14.6	261
9/21/2024	0:15:00	7.3	0.034	16.3	6862.38	Closed	Open	14.5	256
9/21/2024	0:30:00	7	0.036	23.6	6867.74	Closed	Open	14.4	259
9/21/2024	0:45:00	7.2	0.035	25.4	6873.19	Closed	Open	14.2	259
9/21/2024	1:00:00	7.3	0.044	49.9	6876.45	Open	Closed	14.3	256
9/21/2024	1:15:00	7.2	0.029	65.6	6876.45	Open	Closed	14	257
9/21/2024	1:30:00	7	0.032	19.3	6876.45	Open	Closed	14.1	261
9/21/2024	1:45:00	7.3	0.032	10.7	6876.45	Open	Open	14	254
9/21/2024	2:00:00	7.4	0.033	8.3	6881.43	Closed	Open	14.3	254
9/21/2024	2:15:00	7.3	0.034	7.7	6886.44	Closed	Open	14.5	254
9/21/2024	2:30:00	7.3	0.034	7.9	6891.46	Closed	Open	14.6	254
9/21/2024	2:45:00	7.3	0.033	7.2	6896.52	Closed	Open	14.8	254
9/21/2024	3:00:00	7.3	0.034	6.4	6901.67	Closed	Open	14.9	254
9/21/2024	3:15:00	7.3	0.034	6.8	6906.71	Closed	Open	15	254

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	3:30:00	7.3	0.033	6.8	6911.75	Closed	Open	15.1	254
9/21/2024	3:45:00	7.3	0.034	6.5	6916.71	Closed	Open	15.2	254
9/21/2024	4:00:00	7.3	0.034	6.2	6921.77	Closed	Open	15.3	254
9/21/2024	4:15:00	7.3	0.033	6.1	6926.89	Closed	Open	15.3	254
9/21/2024	4:30:00	7.3	0.033	5.8	6931.85	Closed	Open	15.3	254
9/21/2024	4:45:00	7.3	0.033	6.3	6936.83	Closed	Open	15.4	254
9/21/2024	5:00:00	7.3	0.034	6.8	6941.81	Closed	Open	15.4	254
9/21/2024	5:15:00	7.3	0.034	6.5	6946.83	Closed	Open	15.4	254
9/21/2024	5:30:00	7.3	0.034	6.6	6951.85	Closed	Open	15.4	254
9/21/2024	5:45:00	7.3	0.034	6.9	6956.92	Closed	Open	15.4	254
9/21/2024	6:00:00	7.3	0.032	6.9	6961.81	Open	Closed	15.5	254
9/21/2024	6:15:00	6.9	0.032	11.5	6961.81	Open	Closed	13.8	259
9/21/2024	6:30:00	7.2	0.033	13.4	6961.81	Open	Closed	13.8	259
9/21/2024	6:45:00	7.3	0.033	9.1	6965.26	Closed	Open	13.9	255
9/21/2024	7:00:00	7.2	0.000	8.2	6966.05	Closed	Open	14	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	7:15:00	7	0.000	24.1	6966.05	Open	Closed	13.8	259
9/21/2024	7:30:00	7	0.031	93	6966.05	Open	Closed	13.8	260
9/21/2024	7:45:00	7.3	0.031	56.2	6966.05	Open	Closed	14	261
9/21/2024	8:00:00	7.3	0.028	20.4	6966.05	Open	Closed	13.8	257
9/21/2024	8:15:00	7	0.028	8.3	6966.05	Open	Closed	13.6	260
9/21/2024	8:30:00	7.1	0.027	7.4	6969.93	Closed	Open	13.8	263
9/21/2024	8:45:00	7.3	0.026	7.7	6974.02	Closed	Open	14	259
9/21/2024	9:00:00	7.2	0.027	8.4	6978.10	Closed	Open	14.2	256
9/21/2024	9:15:00	7	0.027	6.7	6982.16	Closed	Open	14.2	256
9/21/2024	9:30:00	7.1	0.026	7.1	6986.24	Closed	Open	14.4	256
9/21/2024	9:45:00	7.2	0.027	6.4	6990.32	Closed	Open	14.8	258
9/21/2024	10:00:00	7.3	0.027	6.2	6994.38	Closed	Open	15.1	256
9/21/2024	10:15:00	7.3	0.027	7.1	6998.47	Closed	Open	15.4	255
9/21/2024	10:30:00	7.3	0.027	6	7002.55	Closed	Open	16	255
9/21/2024	10:45:00	7.3	0.026	6	7006.61	Closed	Open	16.4	255

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	11:00:00	7.1	0.027	5.5	7010.69	Closed	Open	16.7	255
9/21/2024	11:15:00	7	0.027	5.8	7014.77	Closed	Open	16.9	255
9/21/2024	11:30:00	7	0.028	5.2	7018.83	Closed	Open	17.2	255
9/21/2024	11:45:00	7	0.027	5.3	7022.91	Closed	Open	17.5	253
9/21/2024	12:00:00	7	0.027	5	7027.00	Closed	Open	17.7	252
9/21/2024	12:15:00	7	0.027	5.1	7031.06	Closed	Open	18	252
9/21/2024	12:30:00	7	0.027	4.7	7035.14	Closed	Open	18.2	254
9/21/2024	12:45:00	7	0.028	5.1	7039.22	Closed	Open	18.3	253
9/21/2024	13:00:00	7	0.027	4.6	7043.28	Closed	Open	18.5	253
9/21/2024	13:15:00	7	0.028	4.5	7047.36	Closed	Open	18.6	253
9/21/2024	13:30:00	7	0.028	4.6	7051.45	Closed	Open	18.8	253
9/21/2024	13:45:00	7	0.027	4.4	7055.51	Closed	Open	19	254
9/21/2024	14:00:00	7	0.028	4.3	7059.59	Closed	Open	19.1	254
9/21/2024	14:15:00	7	0.027	4.4	7063.67	Closed	Open	19.3	253
9/21/2024	14:30:00	7	0.027	4.4	7067.75	Closed	Open	19.5	254

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	14:45:00	7	0.028	4	7071.81	Closed	Open	19.6	254
9/21/2024	15:00:00	7	0.027	4	7075.90	Closed	Open	19.8	252
9/21/2024	15:15:00	7	0.027	4.1	7079.98	Closed	Open	20	254
9/21/2024	15:30:00	7	0.000	3.9	7082.00	Open	Closed	20.1	254
9/21/2024	15:45:00	7.5	0.029	14.8	7083.82	Closed	Open	17.1	252
9/21/2024	16:00:00	7.4	0.029	10.7	7088.44	Closed	Open	16.5	252
9/21/2024	16:15:00	7	0.029	13.9	7090.26	Open	Closed	15.5	257
9/21/2024	16:30:00	7.1	0.029	30.4	7090.26	Open	Closed	15.4	257
9/21/2024	16:45:00	7.4	0.054	68.4	7090.26	Open	Closed	15.4	252
9/21/2024	17:00:00	7.2	0.028	28.9	7090.26	Open	Closed	15.8	254
9/21/2024	17:15:00	7	0.027	13.9	7090.26	Open	Closed	15.7	255
9/21/2024	17:30:00	7.3	0.026	11.6	7090.26	Open	Closed	15.7	255
9/21/2024	17:45:00	7.4	0.028	9.4	7093.25	Closed	Open	16	256
9/21/2024	18:00:00	7.4	0.028	9	7097.34	Closed	Open	16.5	254
9/21/2024	18:15:00	7.3	0.028	9.3	7101.42	Closed	Open	16.9	254

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Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	18:30:00	7.3	0.028	6.5	7105.48	Closed	Open	17.4	254
9/21/2024	18:45:00	7.3	0.027	8.6	7109.56	Closed	Open	17.7	252
9/21/2024	19:00:00	7.3	0.028	6	7113.64	Closed	Open	18	252
9/21/2024	19:15:00	7.3	0.028	5.4	7117.70	Closed	Open	18.3	252
9/21/2024	19:30:00	7.3	0.028	4.7	7121.78	Closed	Open	18.6	254
9/21/2024	19:45:00	7.3	0.028	4.5	7125.87	Closed	Open	18.8	254
9/21/2024	20:00:00	7.3	0.028	3.3	7129.93	Closed	Open	19	252
9/21/2024	20:15:00	7.3	0.028	3.7	7134.03	Closed	Open	19.1	252
9/21/2024	20:30:00	7.3	0.028	4.7	7138.11	Closed	Open	19.3	253
9/21/2024	20:45:00	7.3	0.029	5.8	7142.17	Closed	Open	19.4	254
9/21/2024	21:00:00	7.3	0.028	4.7	7146.25	Closed	Open	19.4	253
9/21/2024	21:15:00	7.2	0.000	6.3	7148.36	Open	Closed	19.8	252
9/21/2024	21:30:00	6.8	0.036	95	7148.36	Open	Closed	15.3	257
9/21/2024	21:45:00	6.9	0.034	51.6	7148.36	Open	Closed	15.8	261
9/21/2024	22:00:00	7.1	0.034	33.4	7148.36	Open	Closed	16.3	261

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/21/2024	22:15:00	7.2	0.034	28.3	7152.05	Closed	Open	16.8	261
9/21/2024	22:30:00	7.2	0.034	21.4	7157.39	Closed	Open	17.1	262
9/21/2024	22:45:00	7.2	0.034	24.4	7162.68	Closed	Open	17.4	262
9/21/2024	23:00:00	7.2	0.034	16.9	7167.96	Closed	Open	17.6	259
9/21/2024	23:15:00	6.9	0.047	131	7170.52	Open	Closed	14.7	257
9/21/2024	23:30:00	7.2	0.033	49.3	7170.52	Open	Closed	14.6	255
9/21/2024	23:45:00	7.3	0.034	14.4	7170.80	Closed	Open	14.7	251
9/22/2024	0:00:00	7.3	0.034	13.7	7176.18	Closed	Open	15.1	253
9/22/2024	0:15:00	7.2	0.035	12.1	7181.58	Closed	Open	15.6	253
9/22/2024	0:30:00	7.2	0.034	10.2	7186.97	Closed	Open	16	255
9/22/2024	0:45:00	7.2	0.034	8.1	7192.36	Closed	Open	16.4	253
9/22/2024	1:00:00	7.2	0.034	8.1	7197.75	Closed	Open	16.7	255
9/22/2024	1:15:00	7.2	0.035	6.9	7203.14	Closed	Open	17	255
9/22/2024	1:30:00	7.2	0.035	6.3	7208.53	Closed	Open	17.2	254
9/22/2024	1:45:00	7.2	0.034	5.7	7213.96	Closed	Open	17.4	255

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	2:00:00	7.2	0.035	6.1	7219.37	Closed	Open	17.6	255
9/22/2024	2:15:00	7.2	0.033	6	7224.74	Closed	Open	17.8	257
9/22/2024	2:30:00	7.2	0.034	5.6	7230.13	Closed	Open	17.9	257
9/22/2024	2:45:00	7.2	0.034	7.5	7235.54	Closed	Open	18.1	257
9/22/2024	3:00:00	7.2	0.035	7.7	7240.94	Closed	Open	18.3	257
9/22/2024	3:15:00	7.2	0.034	6.7	7246.35	Closed	Open	18.5	254
9/22/2024	3:30:00	7.2	0.034	6.6	7251.76	Closed	Open	18.6	255
9/22/2024	3:45:00	7.2	0.022	19.7	7256.78	Open	Closed	18.7	257
9/22/2024	4:00:00	7.1	0.040	62.9	7256.78	Open	Closed	14	116
9/22/2024	4:15:00	7.3	0.029	18.8	7257.75	Closed	Open	14.2	114
9/22/2024	4:30:00	7.4	0.032	15.3	7262.49	Closed	Open	14.6	114
9/22/2024	4:45:00	7.4	0.033	13.8	7267.25	Closed	Open	15.1	250
9/22/2024	5:00:00	7.3	0.032	10.7	7271.99	Closed	Open	15.5	250
9/22/2024	5:15:00	7.3	0.033	8.4	7276.75	Closed	Open	15.9	250
9/22/2024	5:30:00	7.3	0.033	7.1	7281.52	Closed	Open	16.2	250

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th


Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	5:45:00	7.3	0.033	5.8	7286.25	Closed	Open	16.5	255
9/22/2024	6:00:00	7.3	0.033	5	7291.02	Closed	Open	16.7	252
9/22/2024	6:15:00	7.3	0.033	6.2	7295.78	Closed	Open	16.8	251
9/22/2024	6:30:00	7.3	0.033	6.4	7300.51	Closed	Open	16.9	251
9/22/2024	6:45:00	7.3	0.033	7.6	7305.28	Closed	Open	17	253
9/22/2024	7:00:00	7.3	0.032	6.3	7310.04	Closed	Open	17.1	253
9/22/2024	7:15:00	7.3	0.032	5.6	7314.78	Closed	Open	17.3	253
9/22/2024	7:30:00	7.3	0.032	5.2	7319.54	Closed	Open	17.5	253
9/22/2024	7:45:00	7.3	0.033	5.1	7324.30	Closed	Open	17.8	253
9/22/2024	8:00:00	6.9	0.033	26	7327.69	Closed	Open	14.3	256
9/22/2024	8:15:00	7	0.000	58.8	7327.84	Open	Closed	13.9	257
9/22/2024	8:30:00	7	0.000	40.1	7327.84	Open	Closed	14.4	255
9/22/2024	8:45:00	7	0.000	50.1	7327.84	Open	Closed	15	258
9/22/2024	9:00:00	7	0.011	31.9	7327.84	Open	Closed	15.4	257
9/22/2024	9:15:00	7.4	0.024	12.2	7330.27	Closed	Open	13.7	114

		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)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	9:30:00	7	0.025	10.5	7333.78	Closed	Open	13.7	255
9/22/2024	9:45:00	7.1	0.025	9.7	7337.32	Closed	Open	13.7	255
9/22/2024	10:00:00	7.3	0.026	10.4	7341.14	Closed	Open	13.7	114
9/22/2024	10:15:00	7.3	0.030	8.7	7345.36	Closed	Open	14.3	116
9/22/2024	10:30:00	7	0.030	11.1	7350.12	Closed	Open	14.3	253
9/22/2024	10:45:00	7.1	0.030	11.3	7354.86	Closed	Open	14.5	255
9/22/2024	11:00:00	7.3	0.031	9.3	7359.59	Closed	Open	14.7	257
9/22/2024	11:15:00	7.4	0.031	8.2	7364.35	Closed	Open	14.9	116
9/22/2024	11:30:00	7.1	0.030	8.8	7369.11	Closed	Open	14.9	252
9/22/2024	11:45:00	7	0.026	10.1	7373.82	Closed	Open	14.8	255
9/22/2024	12:00:00	7.3	0.000	11	7376.40	Open	Closed	14.2	115
9/22/2024	12:15:00	7.3	0.000	9.7	7376.40	Open	Closed	14.7	116
9/22/2024	12:30:00	7.3	0.000	9.1	7376.40	Open	Closed	15.2	252
9/22/2024	12:45:00	7.3	0.000	13.5	7376.40	Open	Closed	15.5	252
9/22/2024	13:00:00	6.9	0.031	15.6	7376.40	Open	Closed	14.2	256

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	13:15:00	7.2	0.031	10	7378.15	Closed	Open	14.1	115
9/22/2024	13:30:00	7.3	0.027	9.3	7382.84	Closed	Open	14.1	115
9/22/2024	13:45:00	7	0.027	9.3	7386.92	Closed	Open	14.1	257
9/22/2024	14:00:00	7.1	0.026	9.3	7390.98	Closed	Open	14.1	258
9/22/2024	14:15:00	7.4	0.027	8.7	7395.06	Closed	Open	14.1	114
9/22/2024	14:30:00	7.1	0.027	8.9	7399.14	Closed	Open	14.2	258
9/22/2024	14:45:00	7	0.027	9	7403.20	Closed	Open	14.2	260
9/22/2024	15:00:00	7.3	0.027	7.7	7407.28	Closed	Open	14.3	257
9/22/2024	15:15:00	7.2	0.026	8.6	7411.37	Closed	Open	14.3	258
9/22/2024	15:30:00	7	0.027	8.5	7415.43	Closed	Open	14.3	262
9/22/2024	15:45:00	7.2	0.027	8.5	7419.51	Closed	Open	14.4	257
9/22/2024	16:00:00	7.3	0.027	9.6	7423.59	Closed	Open	14.4	257
9/22/2024	16:15:00	7	0.027	11.5	7427.65	Closed	Open	14.4	265
9/22/2024	16:30:00	7.1	0.027	12.3	7431.73	Closed	Open	14.4	264
9/22/2024	16:45:00	7.4	0.027	14.6	7435.82	Closed	Open	14.4	259

		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)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	17:00:00	7.1	0.027	17.5	7439.88	Closed	Open	14.4	265
9/22/2024	17:15:00	7	0.027	19.8	7443.96	Closed	Open	14.4	267
9/22/2024	17:30:00	7.3	0.027	18.8	7448.04	Closed	Open	14.4	262
9/22/2024	17:45:00	7.3	0.027	17.5	7452.10	Closed	Open	14.4	263
9/22/2024	18:00:00	7	0.028	16.4	7456.18	Closed	Open	14.3	268
9/22/2024	18:15:00	7.1	0.028	15.7	7460.26	Closed	Open	14.3	268
9/22/2024	18:30:00	7.4	0.027	13	7464.32	Closed	Open	14.3	265
9/22/2024	18:45:00	7.1	0.027	11.5	7468.41	Closed	Open	14.3	268
9/22/2024	19:00:00	7	0.028	10.6	7472.49	Closed	Open	14.3	267
9/22/2024	19:15:00	7.2	0.029	9.6	7476.62	Closed	Open	14.4	266
9/22/2024	19:30:00	7.4	0.029	12.4	7480.80	Closed	Open	14.6	265
9/22/2024	19:45:00	7.1	0.029	8.5	7484.97	Closed	Open	14.6	265
9/22/2024	20:00:00	7	0.029	8.4	7489.14	Closed	Open	14.7	267
9/22/2024	20:15:00	7.2	0.029	10.3	7493.42	Closed	Open	14.7	267
9/22/2024	20:30:00	7.4	0.029	10.8	7497.79	Closed	Open	14.7	263

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by: Approved by: Date:	SD BC2 September 26th

Date	Time	Discharge pH	Flow Rate(m3/m)	Discharge NTU	Flow Total (m3)	Recirc Valve Status	Discharge Valve Status	Discharge Temperature(°C)	Discharge Conductivity (µS/cm)
9/22/2024	20:45:00	7.2	0.118	28.8	7502.31	Closed	Open	14.9	263
9/22/2024	21:00:00	7.1	0.033	14.7	7508.12	Closed	Open	15.5	265
9/22/2024	21:15:00	7.3	0.056	81.4	7509.31	Open	Closed	14.5	260
9/22/2024	21:30:00	7.3	0.033	36.5	7509.31	Open	Closed	14.4	257
9/22/2024	21:45:00	7.1	0.032	12.4	7511.73	Closed	Open	14.7	259
9/22/2024	22:00:00	7.1	0.032	9	7516.49	Closed	Open	15.6	262
9/22/2024	22:15:00	7.2	0.030	6.5	7521.23	Closed	Open	15.5	260
9/22/2024	22:30:00	7.3	0.030	4.2	7525.97	Closed	Open	15.9	262
9/22/2024	22:45:00	7.2	0.030	3.6	7530.67	Closed	Open	16.3	260
9/22/2024	23:00:00	7.2	0.030	3.4	7535.36	Closed	Open	16.6	260
9/22/2024	23:15:00	7.2	0.029	2.7	7540.11	Closed	Open	17	258
9/22/2024	23:30:00	7.2	0.031	1.6	7544.80	Closed	Open	17.3	260
9/22/2024	23:45:00	7.2	0.030	1.3	7549.46	Closed	Open	17.5	262



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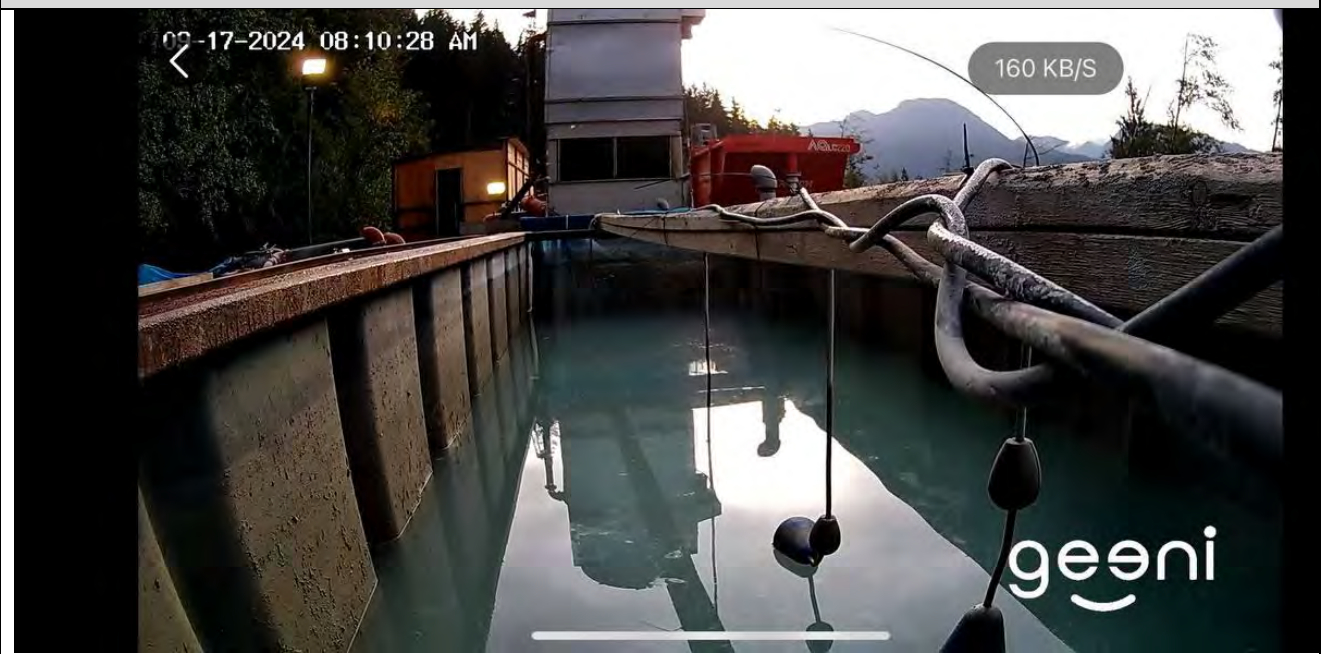
Appendix B: Photos

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by:	SD
		Approved by:	BC2
		Date:	September 26th

Photo 1: No visible sheen observed in the WTP tank, September 16th



Photo 2: No visible sheen observed in the WTP water, September 17th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Photo 3: No visible sheen observed in the WTP water, September 17th

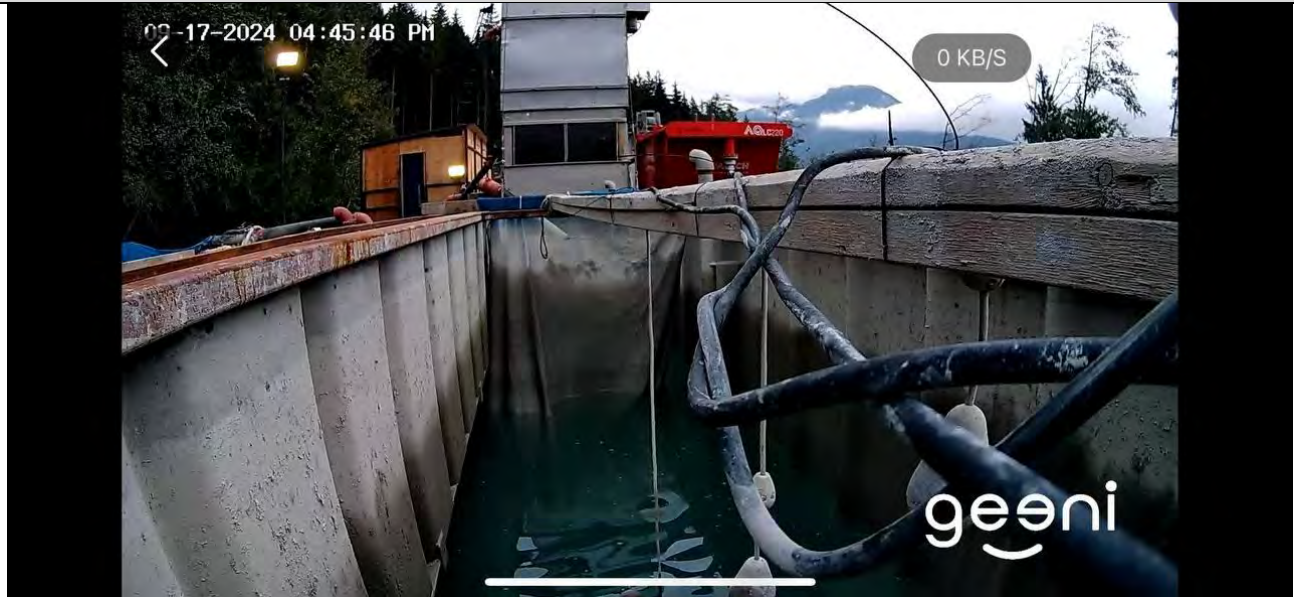
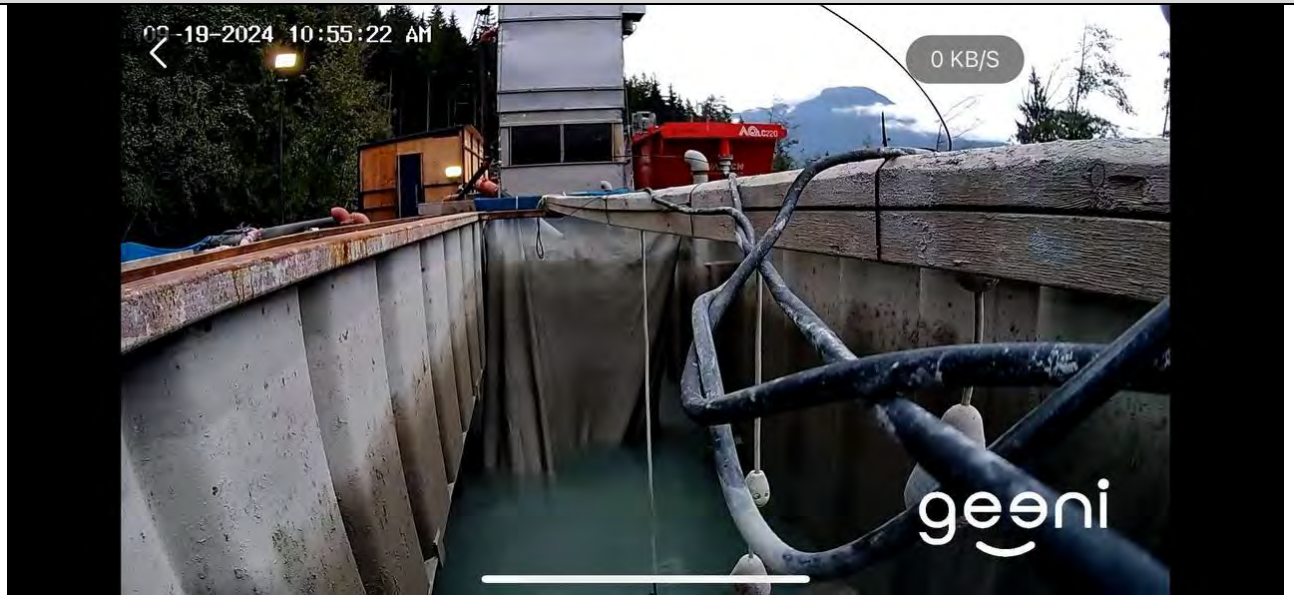


Photo 4: No visible sheen observed in the WTP water, September 19th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by:	SD
		Approved by:	BC2
		Date:	September 26th

Photo 5: No visible sheen observed in the WTP water, September 20th

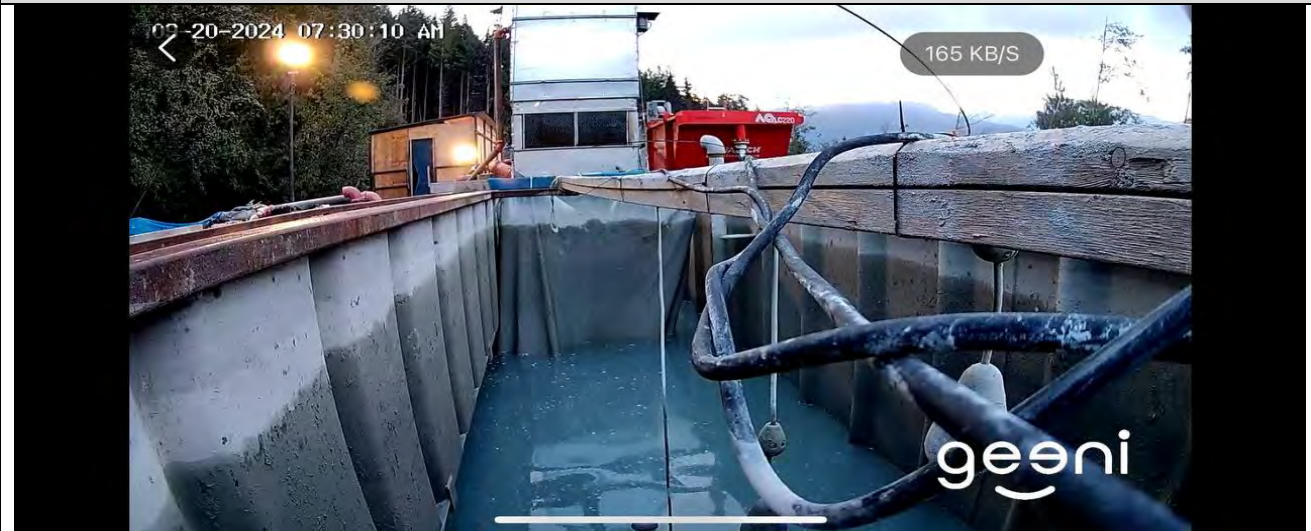


Photo 6: No visible sheen observed in the WTP water, September 21st



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by:	SD
		Approved by:	BC2
		Date:	September 26th

Photo 7: No visible sheen observed in the WTP water, September 22nd

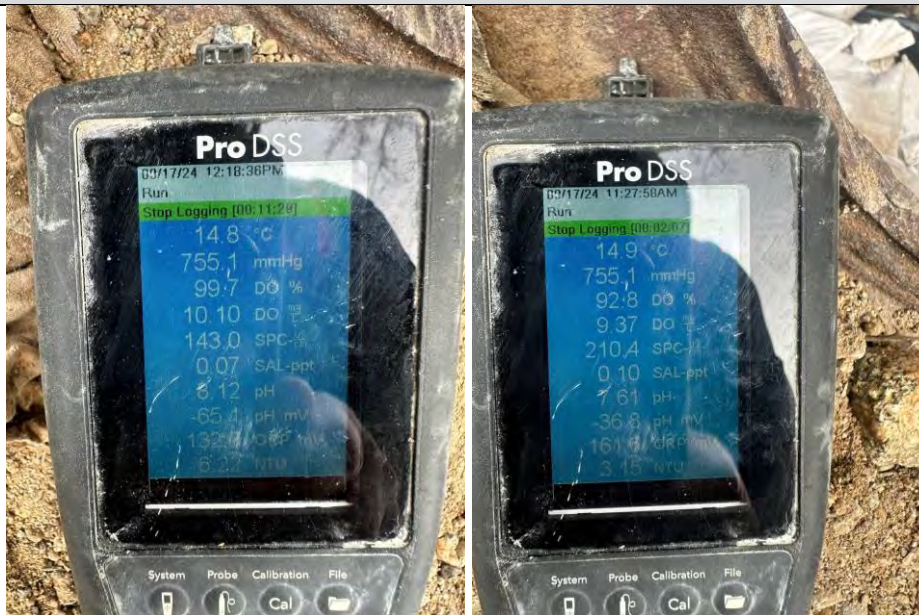



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	September 16th to September 22nd	Prepared by:	SD
		Approved by:	BC2
		Date:	September 26th

Photo 9 and 10: Checked NTU at DS with YSI, September 17th



Photo 11 and 12: Checked NTU at DS with YSI, September 17th



		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	FKM Response to FEI	Revision:	0
Data Date Range	September 19th	Prepared by: Approved by: Date:	SD BC2 October 9th

Throughout the period of elevated NTU measured at the WTP during discharge, FKM monitored downstream sondes for NTU levels to record downstream NTU limits. Although there were higher WTP NTU levels on September 19th, the downstream NTU levels remained within the regulatory guidelines.

Table 1: WTP Log

Date	Time	pH	NTU	Temperature (°C)
9/19/2024	9:45:00	7.1	7.6	15.3
9/19/2024	10:00:00	7.1	13.5	15.8
9/19/2024	10:15:00	7.3	14.8	15.6
9/19/2024	10:30:00	7	14.5	15.7
9/19/2024	10:45:00	7.3	15.9	15.7
9/19/2024	11:00:00	7.2	17.5	15.7
9/19/2024	11:15:00	7	22.4	15.8
9/19/2024	11:30:00	7.3	43.9	15.7
9/19/2024	14:30:00	7.2	16.6	16.8
9/19/2024	15:15:00	7.1	11.9	17.1
9/19/2024	15:30:00	7.2	12.9	17.2
9/19/2024	15:45:00	7.3	18.5	17.3
9/19/2024	16:00:00	7	24.4	17.5
9/19/2024	16:15:00	7.3	34.2	17.5
9/19/2024	16:30:00	7.1	53.9	17.6
9/19/2024	22:45:00	7.2	33.7	16.2
9/19/2024	23:00:00	6.9	15.7	15.8
9/19/2024	23:15:00	7.3	10.2	15.8
9/19/2024	23:30:00	7.1	6.5	15.6
9/19/2024	23:45:00	7.2	5.7	15.6



Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	FKM Response to FEI	Revision:	0
Data Date Range	September 19th	Prepared by: Approved by: Date:	SD BC2 October 9th

Table 2: DS sonde data

Data and Time	Temperature (°C)	PH	NTU
9/19/2024 23:50	14.87	7.96	0
9/19/2024 23:40	14.84	7.95	0
9/19/2024 23:30	14.79	7.95	0.85
9/19/2024 23:20	14.65	7.96	0.28
9/19/2024 23:10	14.58	7.83	2.99
9/19/2024 23:00	14.6	7.84	0.48
9/19/2024 22:50	14.61	7.84	0.29
9/19/2024 22:40	14.62	7.84	0.15
9/19/2024 22:30	14.63	7.84	0.7
9/19/2024 22:20	14.64	7.84	0.37
9/19/2024 22:10	14.65	7.84	0.88
9/19/2024 22:00	14.66	7.84	0.3
9/19/2024 21:50	14.67	7.84	0.4
9/19/2024 21:40	14.68	7.84	0.07
9/19/2024 21:30	14.69	7.84	0.12
9/19/2024 21:20	14.69	7.85	0.29
9/19/2024 21:10	14.7	7.84	0.24
9/19/2024 21:00	14.71	7.85	0.15
9/19/2024 20:50	14.71	7.85	0.33
9/19/2024 20:40	14.71	7.86	0
9/19/2024 20:30	14.72	7.87	0.01
9/19/2024 20:20	14.73	7.87	0
9/19/2024 20:10	14.74	7.88	0.59
9/19/2024 20:00	14.76	7.88	0.71
9/19/2024 19:50	14.77	7.88	0.46
9/19/2024 19:40	14.78	7.88	0.3
9/19/2024 19:30	14.8	7.89	0.79
9/19/2024 19:20	14.81	7.89	0.4
9/19/2024 19:10	14.83	7.89	0.21
9/19/2024 19:00	14.85	7.89	0.35



Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	FKM Response to FEI	Revision:	0
Data Date Range	September 19th	Prepared by: Approved by: Date:	SD BC2 October 9th


Data and Time	Temperature (°C)	PH	NTU
9/19/2024 18:50	14.86	7.89	0.96
9/19/2024 18:40	14.88	7.9	0.71
9/19/2024 18:30	14.9	7.9	1.05
9/19/2024 18:20	14.92	7.9	1.17
9/19/2024 18:10	14.94	7.91	2.55
9/19/2024 18:00	14.97	7.91	2.27
9/19/2024 17:50	15.01	7.9	1.76
9/19/2024 17:40	15.05	7.89	1.97
9/19/2024 17:30	15.09	7.88	2.69
9/19/2024 17:20	15.17	7.92	2.35
9/19/2024 17:10	15.29	7.94	5.51
9/19/2024 17:00	15.59	8.03	0
9/19/2024 16:50	15.62	8.01	0.19
9/19/2024 16:40	15.6	7.99	0
9/19/2024 16:30	15.6	7.98	0.09
9/19/2024 16:20	15.6	7.98	0
9/19/2024 16:10	15.6	7.98	0.35
9/19/2024 16:00	15.59	7.96	0
9/19/2024 15:50	15.56	7.96	0.31
9/19/2024 15:40	15.49	7.96	0
9/19/2024 15:30	15.4	7.87	1.72
9/19/2024 15:20	15.37	7.86	1.3
9/19/2024 15:10	15.33	7.86	1.55
9/19/2024 15:00	15.29	7.87	1.97
9/19/2024 14:50	15.27	7.88	2.39
9/19/2024 14:40	15.32	7.89	0.65
9/19/2024 14:30	15.34	7.89	0.42
9/19/2024 14:20	15.37	7.89	0.3
9/19/2024 14:10	15.36	7.88	0
9/19/2024 14:00	15.35	7.88	0.5
9/19/2024 13:50	15.3	7.87	0.69
9/19/2024 13:40	15.25	7.87	0.4
9/19/2024 13:30	15.2	7.87	1.12
9/19/2024 13:20	15.16	7.87	0.8
9/19/2024 13:10	15.16	7.88	1.3



Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	FKM Response to FEI	Revision:	0
Data Date Range	September 19th	Prepared by: Approved by: Date:	SD BC2 October 9th

Data and Time	Temperature (°C)	PH	NTU
9/19/2024 13:00	15.18	7.89	2.02
9/19/2024 12:50	15.24	7.9	2.25
9/19/2024 12:40	15.28	7.9	1.5
9/19/2024 12:30	15.26	7.89	1.93
9/19/2024 12:20	15.2	7.94	0.89
9/19/2024 12:10	15.09	8.04	0.77
9/19/2024 12:00	15.03	8	0
9/19/2024 11:50	14.97	7.99	0
9/19/2024 11:40	14.91	7.99	0
9/19/2024 11:30	14.87	8.03	0
9/19/2024 11:20	14.84	8.01	0
9/19/2024 11:10	14.82	7.99	0
9/19/2024 11:00	14.81	7.99	0.22
9/19/2024 10:50	14.8	8	0
9/19/2024 10:40	14.79	8.04	0
9/19/2024 10:30	14.78	7.97	1.17
9/19/2024 10:20	14.78	7.99	0
9/19/2024 10:10	14.77	8	0
9/19/2024 10:00	14.77	8	0
9/19/2024 9:50	14.76	8.01	0
9/19/2024 9:40	14.77	8.02	0
9/19/2024 9:30	14.79	8	0
9/19/2024 9:20	14.84	7.99	1.22
9/19/2024 9:10	14.93	7.98	0
9/19/2024 9:00	15.08	7.91	0

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Sept 16 th to Sept 22 nd , 2024
	Report #	26
	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 16 th to Sept 22 nd , 2024
Report #	26
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 16 th to Sept 22 nd , 2024
Report #	26
Appendix D	D-3

Woodfibre Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order : **VA24C4571**
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 : 17-Sep-2024 17:30
Date Analysis Commenced : 18-Sep-2024
Issue Date : 26-Sep-2024 09:44

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>
		Metals, Burnaby, British Columbia Metals, Burnaby, British Columbia Inorganics, Burnaby, British Columbia Inorganics, Burnaby, British Columbia Inorganics, Burnaby, British Columbia Inorganics, Waterloo, Ontario Metals, Waterloo, Ontario Metals, Burnaby, British Columbia Administration, Burnaby, British Columbia Metals, Burnaby, British Columbia Metals, 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.



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 11:14	17-Sep-2024 09:47	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4571-001	VA24C4571-002	-----	-----	-----	
					Result	Result	----	----	----	
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm	39.000	135.00	----	----	----	
pH, field	----	EF001/VA	0.10	pH units	7.19	7.37	----	----	----	
Temperature, field	----	EF001/VA	0.10	°C	13.8	14.4	----	----	----	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	9.84	49.7	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	10.0	52.5	----	----	----	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	32	93	----	----	----	
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	<3.0	5.3	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	10.1	58.6	----	----	----	
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	0.76	2.75	----	----	----	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.025	0.137	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3-L/V A	0.0050	mg/L	0.0303	0.155	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2-L/V A	0.0010	mg/L	<0.0010	0.0021	----	----	----	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.089	0.542	----	----	----	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0044	0.0152	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	2.80	7.17	----	----	----	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	1.94	1.34	----	----	----	
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	0.0509	0.181	----	----	----	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	0.00082	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 11:14	17-Sep-2024 09:47	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4571-001	VA24C4571-002	-----	-----	-----	
					Result	Result	----	----	----	
Total Metals										
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00016	0.00044	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00463	0.0164	----	----	----	
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	0.021	----	----	----	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000050	0.0000318	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	3.38	19.2	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000012	0.000044	----	----	----	
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	0.00058	0.00095	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.080	0.390	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	<0.000050	0.000701	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	0.0056	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	0.393	1.11	----	----	----	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00195	0.0186	----	----	----	
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	0.000660	0.0150	----	----	----	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	0.00053	----	----	----	
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	0.333	2.93	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00075	0.00472	----	----	----	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	4.98	6.18	----	----	----	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	1.96	5.32	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0170	0.0555	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	1.02	2.46	----	----	----	
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					17-Sep-2024 11:14	17-Sep-2024 09:47	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4571-001	VA24C4571-002	-----	-----	-----	
					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	0.00061	0.00547	----	----	----	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	<0.00010	0.00036	----	----	----	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.000069	0.00126	----	----	----	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	<0.00050	0.00052	----	----	----	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	<0.0030	0.0054	----	----	----	
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	0.0366	0.0336	----	----	----	
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	<0.00010	0.00072	----	----	----	
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00014	0.00033	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00449	0.0138	----	----	----	
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	0.019	----	----	----	
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000050	0.0000216	----	----	----	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	3.30	18.1	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	0.000011	0.000026	----	----	----	
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	0.00057	0.00050	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.057	0.011	----	----	----	
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	0.0050	----	----	----	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.389	1.09	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00105	0.00132	----	----	----	
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	0.000611	0.0143	----	----	----	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	



Analytical Results

Sub-Matrix: Water					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
(Matrix: Water)					Client sampling date / time	17-Sep-2024 11:14	17-Sep-2024 09:47	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C4571-001	VA24C4571-002	-----	-----	-----	
					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	0.345	2.86	----	----	----	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00080	0.00450	----	----	----	
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	4.82	5.73	----	----	----	
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	1.94	5.31	----	----	----	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0163	0.0553	----	----	----	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	0.85	2.40	----	----	----	
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	0.00044	----	----	----	
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	<0.00010	0.00030	----	----	----	
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000064	0.000976	----	----	----	
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	0.0013	0.0025	----	----	----	
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 : VA24C4571</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 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 : 17-Sep-2024 17:30</p> <p>Issue Date : 26-Sep-2024 09:44</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
- 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	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-Sep-2024	28 days	3 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG US 1	E298	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-Sep-2024	28 days	3 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG US 1	E235.Br-L	17-Sep-2024	18-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG DS 1	E235.Br-L	17-Sep-2024	18-Sep-2024	28 days	2 days	✔	18-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG US 1	E235.Cl	17-Sep-2024	18-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG DS 1	E235.Cl	17-Sep-2024	18-Sep-2024	28 days	2 days	✔	18-Sep-2024	28 days	2 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG US 1	E235.F	17-Sep-2024	18-Sep-2024	28 days	1 days	✔	18-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		
Anions and Nutrients : Fluoride in Water by IC											
HDPE WLNG DS 1	E235.F	17-Sep-2024	18-Sep-2024	28 days	2 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO3-L	17-Sep-2024	18-Sep-2024	3 days	1 days	✔	18-Sep-2024	3 days	2 days	✔	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO3-L	17-Sep-2024	18-Sep-2024	3 days	2 days	✔	18-Sep-2024	3 days	2 days	✔	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO2-L	17-Sep-2024	18-Sep-2024	3 days	1 days	✔	18-Sep-2024	3 days	2 days	✔	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO2-L	17-Sep-2024	18-Sep-2024	3 days	2 days	✔	18-Sep-2024	3 days	2 days	✔	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG US 1	E235.SO4	17-Sep-2024	18-Sep-2024	28 days	1 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG DS 1	E235.SO4	17-Sep-2024	18-Sep-2024	28 days	2 days	✔	18-Sep-2024	28 days	2 days	✔	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG DS 1	E366	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-Sep-2024	28 days	3 days	✔	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG US 1	E366	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-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	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WLNG DS 1	E372-U	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-Sep-2024	28 days	3 days	✔
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) WLNG US 1	E372-U	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-Sep-2024	28 days	3 days	✔
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) WLNG DS 1	E509	17-Sep-2024	24-Sep-2024	28 days	7 days	✔	24-Sep-2024	28 days	7 days	✔
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial - dissolved (lab preserved) WLNG US 1	E509	17-Sep-2024	24-Sep-2024	28 days	7 days	✔	24-Sep-2024	28 days	7 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) WLNG DS 1	E421	17-Sep-2024	25-Sep-2024	180 days	8 days	✔	25-Sep-2024	180 days	8 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) WLNG US 1	E421	17-Sep-2024	25-Sep-2024	180 days	8 days	✔	25-Sep-2024	180 days	8 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	17-Sep-2024	----	----	----		19-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) WLNG US 1	EF001	17-Sep-2024	----	----	----		19-Sep-2024	----	2 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) WLNG US 1	E358-L	17-Sep-2024	20-Sep-2024	28 days	3 days	✔	20-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		
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (lab preserved) WLNG DS 1	E358-L	17-Sep-2024	20-Sep-2024	3 days	3 days	✓	20-Sep-2024	28 days	0 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE WLNG US 1	E290	17-Sep-2024	18-Sep-2024	14 days	1 days	✓	19-Sep-2024	14 days	2 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE WLNG DS 1	E290	17-Sep-2024	18-Sep-2024	14 days	2 days	✓	19-Sep-2024	14 days	2 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE WLNG US 1	E162	17-Sep-2024	----	----	----		23-Sep-2024	7 days	6 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE WLNG DS 1	E162	17-Sep-2024	----	----	----		23-Sep-2024	7 days	7 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE WLNG US 1	E160	17-Sep-2024	----	----	----		23-Sep-2024	7 days	6 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE WLNG DS 1	E160	17-Sep-2024	----	----	----		23-Sep-2024	7 days	7 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
HDPE - total (sodium hydroxide) WLNG DS 1	E532	17-Sep-2024	----	----	----		20-Sep-2024	28 days	3 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
HDPE - total (sodium hydroxide) WLNG US 1	E532	17-Sep-2024	----	----	----		20-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) WLNG DS 1	E508	17-Sep-2024	25-Sep-2024	28 days	8 days	✔	25-Sep-2024	28 days	8 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) WLNG US 1	E508	17-Sep-2024	25-Sep-2024	28 days	8 days	✔	25-Sep-2024	28 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG DS 1	E420	17-Sep-2024	24-Sep-2024	180 days	7 days	✔	25-Sep-2024	180 days	8 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) WLNG US 1	E420	17-Sep-2024	24-Sep-2024	180 days	7 days	✔	25-Sep-2024	180 days	8 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG DS 1	E395	17-Sep-2024	----	----	----		19-Sep-2024	7 days	2 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG US 1	E395	17-Sep-2024	----	----	----		19-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 (%)		Evaluation
			QC	Regular	Actual	Expected	
Analytical Methods							
Laboratory Duplicates (DUP)							
Alkalinity Species by Titration	E290	1659556	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1662396	1	7	14.2	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1659561	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1659560	1	12	8.3	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1670403	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1663970	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1662398	1	8	12.5	5.0	✓
Fluoride in Water by IC	E235.F	1659559	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1659562	1	15	6.6	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1659563	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1659564	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	1668517	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1664291	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1664049	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1662394	1	9	11.1	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1662395	1	7	14.2	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	1668495	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1659556	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1662396	1	7	14.2	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1659561	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1659560	1	12	8.3	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1670403	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1663970	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1662398	1	8	12.5	5.0	✓
Fluoride in Water by IC	E235.F	1659559	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1659562	1	15	6.6	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1659563	1	20	5.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1659564	1	15	6.6	5.0	✓
TDS by Gravimetry	E162	1668517	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1664291	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1664049	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1662394	1	9	11.1	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	1662395	1	7	14.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✔
TSS by Gravimetry	E160	1668495	1	20	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1659556	1	20	5.0	5.0	✔
Ammonia by Fluorescence	E298	1662396	1	7	14.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1659561	1	5	20.0	5.0	✔
Chloride in Water by IC	E235.Cl	1659560	1	12	8.3	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1670403	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1663970	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1662398	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1659559	1	15	6.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1659562	1	15	6.6	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1659563	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1659564	1	15	6.6	5.0	✔
TDS by Gravimetry	E162	1668517	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1664291	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1664049	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1662394	1	9	11.1	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1662395	1	7	14.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1660216	1	3	33.3	5.0	✔
TSS by Gravimetry	E160	1668495	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1662396	1	7	14.2	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1659561	1	5	20.0	5.0	✔
Chloride in Water by IC	E235.Cl	1659560	1	12	8.3	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1670403	1	20	5.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1663970	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1662398	1	8	12.5	5.0	✔
Fluoride in Water by IC	E235.F	1659559	1	15	6.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1659562	1	15	6.6	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1659563	1	20	5.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1659564	1	15	6.6	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1664291	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	1671218	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1664049	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1662394	1	9	11.1	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1662395	1	7	14.2	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	1660216	1	3	33.3	5.0	✓



Methodology References and Summaries

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

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



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



<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.

QUALITY CONTROL REPORT

Work Order : **VA24C4571**
Client : Triton Environmental Consultants Ltd.
Contact : [Redacted]
Address : [Redacted]
Telephone : [Redacted]
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 : [Redacted]
Address : [Redacted]
Telephone : [Redacted]
Date Samples Received : 17-Sep-2024 17:30
Date Analysis Commenced : 18-Sep-2024
Issue Date : 26-Sep-2024 09:44

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Laboratory Department
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Waterloo Inorganics, Waterloo, Ontario
[Redacted]	[Redacted]	Waterloo Metals, Waterloo, Ontario
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Administration, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia

Page : 2 of 17
Work Order : VA24C4571
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: 1659556)											
VA24C4574-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	45.1	45.1	0.00%	20%	----
Physical Tests (QC Lot: 1668495)											
FJ2402835-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1668517)											
FJ2402835-001	Anonymous	Solids, total dissolved [TDS]	----	E162	10	mg/L	639	639	0.00%	20%	----
Anions and Nutrients (QC Lot: 1659559)											
VA24C4571-001	WLNG US 1	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.025	0.023	0.002	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1659560)											
VA24C4571-001	WLNG US 1	Chloride	16887-00-6	E235.Cl	0.50	mg/L	0.76	0.75	0.005	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1659561)											
VA24C4571-001	WLNG US 1	Bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1659562)											
VA24C4571-001	WLNG US 1	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0303	0.0296	0.0007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1659563)											
VA24C4571-001	WLNG US 1	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1659564)											
VA24C4571-001	WLNG US 1	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	2.80	2.79	0.02	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1662394)											
VA24C4529-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.280	0.279	0.0007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1662395)											
VA24C4571-001	WLNG US 1	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0044	0.0049	0.0004	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1662396)											
VA24C4571-001	WLNG US 1	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1662398)											
VA24C4529-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	4.95	5.06	2.23%	20%	----
Total Sulfides (QC Lot: 1660216)											
VA24C4468-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1664049)											
VA24C4571-001	WLNG US 1	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0509	0.0498	2.04%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----



Sub-Matrix: **Water**

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1664049) - continued											
VA24C4571-001	WLNG US 1	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00016	0.00015	0.00001	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.00463	0.00451	2.48%	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	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	0.0000056	0.0000006	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	3.38	3.38	0.136%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000012	<0.000010	0.000002	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	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00058	0.00058	0.000001	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.080	0.080	0.0007	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	0.393	0.386	1.80%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.00195	0.00193	1.11%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000660	0.000640	3.00%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	0.333	0.323	0.010	Diff <2x LOR	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00075	0.00072	0.00003	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	4.98	5.08	2.05%	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	1.96	1.96	0.120%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.0170	0.0166	1.92%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	1.02	0.93	0.08	Diff <2x LOR	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00030	mg/L	0.00061	0.00066	0.00005	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000069	0.000068	0.0000008	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: 1664049) - continued											
VA24C4571-001	WLNG US 1	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: 1671218)											
FJ2402799-005	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1663970)											
VA24C4571-001	WLNG US 1	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0366	0.0358	2.01%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00014	0.00014	0.000004	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.00449	0.00444	1.06%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000050	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	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	3.30	3.29	0.383%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000011	0.000011	0.0000002	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00057	0.00058	0.00001	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.057	0.056	0.0007	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	0.389	0.380	2.43%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00105	0.00108	3.15%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000611	0.000608	0.560%	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	0.345	0.328	0.016	Diff <2x LOR	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00080	0.00069	0.00012	Diff <2x LOR	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	4.82	4.82	0.137%	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	1.94	1.93	0.323%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0163	0.0165	1.54%	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: 1663970) - continued											
VA24C4571-001	WLNG US 1	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	0.85	0.91	0.07	Diff <2x LOR	----
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00010	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	0.000064	0.000063	0.0000009	Diff <2x LOR	----
		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	0.0013	0.0012	0.00007	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: 1670403)											
VA24C4417-007	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1664291)											
HA2402244-005	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: 1659556)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1668495)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1668517)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1659559)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1659560)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1659561)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1659562)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1659563)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1659564)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1662394)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1662395)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1662396)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon (QCLot: 1662398)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1660216)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1664049)						
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: 1664049) - 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: 1671218)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1663970)						
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: 1663970) - 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: 1670403)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1664291)						
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: 1659556)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	102	85.0	115	----
Physical Tests (QCLot: 1668495)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	97.5	85.0	115	----
Physical Tests (QCLot: 1668517)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	108	85.0	115	----
Anions and Nutrients (QCLot: 1659559)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	104	90.0	110	----
Anions and Nutrients (QCLot: 1659560)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1659561)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	104	85.0	115	----
Anions and Nutrients (QCLot: 1659562)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 1659563)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 1659564)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	103	90.0	110	----
Anions and Nutrients (QCLot: 1662394)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	99.2	75.0	125	----
Anions and Nutrients (QCLot: 1662395)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	92.6	80.0	120	----
Anions and Nutrients (QCLot: 1662396)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	101	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1662398)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	100	80.0	120	----
Total Sulfides (QCLot: 1660216)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	102	80.0	120	----
Total Metals (QCLot: 1664049)									



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: 1664049) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	103	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	101	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	107	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	94.5	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	96.8	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	88.8	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	108	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	94.2	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	99.4	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	99.3	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	108	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	98.3	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	95.1	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	101	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	100	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	106	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	99.3	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	102	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	91.2	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	103	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	105	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	107	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	98.5	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	93.1	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	98.2	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	95.1	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	95.3	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	94.3	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: 1664049) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	114	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	98.8	80.0	120	----
Total Metals (QCLot: 1671218)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	92.6	80.0	120	----
Dissolved Metals (QCLot: 1663970)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	101	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	98.8	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	100	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	103	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	98.4	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	99.6	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	106	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	103	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	102	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	99.4	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	99.5	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	98.2	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	104	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	99.2	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	104	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	102	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	98.1	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	102	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	111	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	106	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	97.4	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	104	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	104	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	93.8	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	104	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	101	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1663970) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	97.9	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	98.0	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	97.1	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	100	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.7	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	95.3	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.8	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	100	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	107	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	99.6	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	91.1	80.0	120	----
Speciated Metals (QCLot: 1664291)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.025 mg/L	97.5	80.0	120	----



Matrix Spike (MS) Report

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

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Anions and Nutrients (QCLot: 1659559)										
VA24C4571-002	WLNG DS 1	Fluoride	16984-48-8	E235.F	1.06 mg/L	1 mg/L	106	75.0	125	----
Anions and Nutrients (QCLot: 1659560)										
VA24C4571-002	WLNG DS 1	Chloride	16887-00-6	E235.Cl	105 mg/L	100 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 1659561)										
VA24C4571-002	WLNG DS 1	Bromide	24959-67-9	E235.Br-L	0.529 mg/L	0.5 mg/L	106	75.0	125	----
Anions and Nutrients (QCLot: 1659562)										
VA24C4571-002	WLNG DS 1	Nitrate (as N)	14797-55-8	E235.NO3-L	2.59 mg/L	2.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1659563)										
VA24C4571-002	WLNG DS 1	Nitrite (as N)	14797-65-0	E235.NO2-L	0.531 mg/L	0.5 mg/L	106	75.0	125	----
Anions and Nutrients (QCLot: 1659564)										
VA24C4571-002	WLNG DS 1	Sulfate (as SO4)	14808-79-8	E235.SO4	104 mg/L	100 mg/L	104	75.0	125	----
Anions and Nutrients (QCLot: 1662394)										
VA24C4530-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.368 mg/L	0.4 mg/L	92.0	70.0	130	----
Anions and Nutrients (QCLot: 1662395)										
VA24C4571-002	WLNG DS 1	Phosphorus, total	7723-14-0	E372-U	0.0471 mg/L	0.05 mg/L	94.2	70.0	130	----
Anions and Nutrients (QCLot: 1662396)										
VA24C4571-002	WLNG DS 1	Ammonia, total (as N)	7664-41-7	E298	0.102 mg/L	0.1 mg/L	102	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1662398)										
VA24C4530-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	4.61 mg/L	5 mg/L	92.2	70.0	130	----
Total Sulfides (QCLot: 1660216)										
VA24C4571-001	WLNG US 1	Sulfide, total (as S)	18496-25-8	E395	0.206 mg/L	0.2 mg/L	103	75.0	125	----
Total Metals (QCLot: 1664049)										
VA24C4571-002	WLNG DS 1	Aluminum, total	7429-90-5	E420	0.187 mg/L	0.2 mg/L	93.4	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0186 mg/L	0.02 mg/L	92.8	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0195 mg/L	0.02 mg/L	97.7	70.0	130	----
		Barium, total	7440-39-3	E420	0.0187 mg/L	0.02 mg/L	93.6	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0390 mg/L	0.04 mg/L	97.4	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00933 mg/L	0.01 mg/L	93.3	70.0	130	----
		Boron, total	7440-42-8	E420	0.094 mg/L	0.1 mg/L	93.7	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00386 mg/L	0.004 mg/L	96.5	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00972 mg/L	0.01 mg/L	97.2	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0384 mg/L	0.04 mg/L	96.0	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: 1664049) - continued										
VA24C4571-002	WLNG DS 1	Cobalt, total	7440-48-4	E420	0.0192 mg/L	0.02 mg/L	95.8	70.0	130	----
		Copper, total	7440-50-8	E420	0.0186 mg/L	0.02 mg/L	93.1	70.0	130	----
		Iron, total	7439-89-6	E420	1.86 mg/L	2 mg/L	93.0	70.0	130	----
		Lead, total	7439-92-1	E420	0.0184 mg/L	0.02 mg/L	91.9	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0962 mg/L	0.1 mg/L	96.2	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0191 mg/L	0.02 mg/L	95.6	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0386 mg/L	0.04 mg/L	96.6	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.43 mg/L	10 mg/L	94.3	70.0	130	----
		Potassium, total	7440-09-7	E420	3.64 mg/L	4 mg/L	91.1	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0186 mg/L	0.02 mg/L	92.9	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0401 mg/L	0.04 mg/L	100	70.0	130	----
		Silicon, total	7440-21-3	E420	9.33 mg/L	10 mg/L	93.3	70.0	130	----
		Silver, total	7440-22-4	E420	0.00376 mg/L	0.004 mg/L	94.1	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	95.0	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0384 mg/L	0.04 mg/L	95.9	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00362 mg/L	0.004 mg/L	90.6	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----
		Tin, total	7440-31-5	E420	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0366 mg/L	0.04 mg/L	91.5	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0179 mg/L	0.02 mg/L	89.3	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00373 mg/L	0.004 mg/L	93.3	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0959 mg/L	0.1 mg/L	95.9	70.0	130	----
		Zinc, total	7440-66-6	E420	0.409 mg/L	0.4 mg/L	102	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0372 mg/L	0.04 mg/L	93.0	70.0	130	----
Total Metals (QCLot: 1671218)										
KS2403720-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000962 mg/L	0 mg/L	96.2	70.0	130	----
Dissolved Metals (QCLot: 1663970)										
VA24C4571-002	WLNG DS 1	Aluminum, dissolved	7429-90-5	E421	0.196 mg/L	0.2 mg/L	98.1	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0198 mg/L	0.02 mg/L	98.8	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0393 mg/L	0.04 mg/L	98.3	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00912 mg/L	0.01 mg/L	91.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.093 mg/L	0.1 mg/L	92.8	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00398 mg/L	0.004 mg/L	99.5	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00990 mg/L	0.01 mg/L	99.0	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0381 mg/L	0.04 mg/L	95.2	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0192 mg/L	0.02 mg/L	96.3	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: 1663970) - continued										
VA24C4571-002	WLNG DS 1	Copper, dissolved	7440-50-8	E421	0.0185 mg/L	0.02 mg/L	92.5	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.92 mg/L	2 mg/L	95.8	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0967 mg/L	0.1 mg/L	96.7	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0190 mg/L	0.02 mg/L	95.3	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0388 mg/L	0.04 mg/L	97.1	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	9.71 mg/L	10 mg/L	97.1	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	3.52 mg/L	4 mg/L	87.9	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0407 mg/L	0.04 mg/L	102	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.38 mg/L	10 mg/L	93.8	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00389 mg/L	0.004 mg/L	97.2	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	19.4 mg/L	20 mg/L	96.8	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0408 mg/L	0.04 mg/L	102	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00375 mg/L	0.004 mg/L	93.9	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0192 mg/L	0.02 mg/L	96.3	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0192 mg/L	0.02 mg/L	95.9	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0372 mg/L	0.04 mg/L	92.9	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0182 mg/L	0.02 mg/L	91.0	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00379 mg/L	0.004 mg/L	94.8	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0962 mg/L	0.1 mg/L	96.2	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.407 mg/L	0.4 mg/L	102	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0384 mg/L	0.04 mg/L	96.1	70.0	130	----
Dissolved Metals (QCLot: 1670403)										
VA24C4417-008	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000916 mg/L	0 mg/L	91.6	70.0	130	----
Speciated Metals (QCLot: 1664291)										
HA2402244-005	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0389 mg/L	0.04 mg/L	97.2	70.0	130	----



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

Reporting Week	Sept 16 th to Sept 22 nd , 2024
Report #	26
Appendix D	D-4

Woodfibre Site Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-9-17-Chycoski-52655

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge
Inspection Date:	09/17/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669455 -123.25087
Temperature(c):	Low 13 High 18	Permit:	PE 110136
Weather Conditions:	Overcast	Ground Conditions:	Dry

Observations

Time: 11:14:00 **Flow Volume (visual):** low

Notes:

Odour Detected?: No **Notes:**

Unusual Colour?: No **Notes:**

Unusual Observations?: No **Notes:**

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

Samples Collected - Parameters

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

Logger Maintenance

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

Photos



Photo: 1
Location: EAS US 1
Description: US view



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



2024-9-17-Chycoski-52655

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	09/17/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.668675 -123.248569
Temperature(c): Low 13 High 18		Permit:	PE 110136
Weather Conditions:	Overcast	Ground Conditions:	Dry

Observations

Time: 09:47:00 **Flow Volume (visual):** low

Notes: Instream work (lining and bank stabilization) occurred during sampling at isolated area immediately DS. The pump being used had an overflowing drip tray located directly beside East Creek. No sheen was observed but McDermott EM was notified as the potential to overflow into East Creek was high. The sonde was not able to be redeployed in East Creek due to construction nearby. The following parameters were taken using YSI: DO: 7.31 mg/L, ORP: 190.5 mV, Salinity: 0.08 ppt. Dissolved nutrients could not be field filtered. Preservatives were rinsed out.

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
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Describe Logger Maintenance

Installed logger back into strea

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 and isolated work area



2024-9-17-Chycoski-11EE7

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

EGP-STU-003 (WLNG US) 2024-09-16 to 2024-09-22

Received	Temperature C	Specific	Salinity	pH	pH	ORP mV	Dissolved	Turbidity	TL Battery
		Conductivity					Oxygen		
		ÂµS/cm	PSU				Concentration mg/L	NTU	V
9/22/2024 23:50	13.81	29.18	0.01	7.16	404.22	8.98	0.5	12	
9/22/2024 23:40	13.8	29.27	0.01	7.14	405.34	8.96	0.48	11.9	
9/22/2024 23:30	13.8	29.72	0.01	7.17	403.1	8.97	0.55	12	
9/22/2024 23:20	13.8	29.88	0.01	7.16	404.27	8.97	0.55	12	
9/22/2024 23:10	13.8	30.38	0.01	7.18	402.62	8.98	0.49	11.9	
9/22/2024 23:00	13.8	30.6	0.01	7.16	404.01	8.96	0.48	12	
9/22/2024 22:50	13.79	31.23	0.02	7.18	402.84	8.97	0.49	11.97	
9/22/2024 22:40	13.79	31.13	0.02	7.18	403.52	8.97	0.49	11.88	
9/22/2024 22:30	13.79	32.22	0.02	7.18	402.74	8.98	0.53	11.88	
9/22/2024 22:20	13.79	32.58	0.02	7.18	402.89	8.98	0.49	11.97	
9/22/2024 22:10	13.79	33.33	0.02	7.19	401.71	8.99	0.49	12	
9/22/2024 22:00	13.79	33.88	0.02	7.22	400.69	9	0.46	12	
9/22/2024 21:50	13.79	34.6	0.02	7.2	401.22	8.97	0.49	11.97	
9/22/2024 21:40	13.79	35.21	0.02	7.21	407.19	8.99	0.46	11.97	
9/22/2024 21:30	13.79	36.22	0.02	7.2	401.31	9	0.49	11.97	
9/22/2024 21:20	13.79	36.87	0.02	7.21	400.99	9	0.45	12.02	
9/22/2024 21:10	13.79	38.24	0.02	7.18	402	9	0.5	12.05	
9/22/2024 21:00	13.78	38.75	0.02	7.21	400.61	9	0.46	12.02	
9/22/2024 20:50	13.78	40.77	0.02	7.23	398.98	8.99	0.47	12.02	
9/22/2024 20:40	13.78	41.64	0.02	7.22	398.96	9	0.46	11.93	
9/22/2024 20:30	13.79	44.04	0.02	7.23	397.98	9.01	0.48	12.02	
9/22/2024 20:20	13.79	45.33	0.02	7.22	398.51	9.01	0.47	12.02	
9/22/2024 20:10	13.79	46.77	0.02	7.23	397.71	8.99	0.49	11.95	
9/22/2024 20:00	13.79	47.78	0.02	7.21	399.08	8.98	0.45	12.05	
9/22/2024 19:50	13.79	48.66	0.02	7.23	397.71	8.99	0.5	12.05	
9/22/2024 19:40	13.79	48.11	0.02	7.22	398.08	9.01	0.49	12.05	
9/22/2024 19:30	13.8	46.96	0.02	7.22	397.58	9.01	0.48	11.95	
9/22/2024 19:20	13.8	43.85	0.02	7.2	398.27	9.01	0.5	11.97	
9/22/2024 19:10	13.8	40.35	0.02	7.21	396.92	9.03	0.49	11.97	
9/22/2024 19:00	13.81	34.81	0.02	7.19	397.71	9.02	0.49	12.02	
9/22/2024 18:50	13.81	29.68	0.01	7.19	397.36	9.03	0.51	12.12	
9/22/2024 18:40	13.82	25.83	0.01	7.17	397.64	9.04	0.5	12.17	
9/22/2024 18:30	13.82	23.93	0.01	7.18	396.55	9.05	0.51	12.17	
9/22/2024 18:30	13.82	23.85	0.01	7.2	395.73	9.03	0.52	12.17	
9/22/2024 18:20	13.83	23.4	0.01	7.18	397.15	9.04	0.51	12.19	
9/22/2024 18:10	13.83	23.7	0.01	7.2	395.9	9.04	0.5	12.09	
9/22/2024 18:00	13.84	23.46	0.01	7.19	395.68	9.06	0.52	12.21	
9/22/2024 17:50	13.84	23.78	0.01	7.16	396.14	9.05	0.49	12.14	
9/22/2024 17:40	13.85	23.61	0.01	7.18	395.24	9.07	0.53	12.31	
9/22/2024 17:30	13.86	23.68	0.01	7.21	392.85	9.07	0.49	12.36	
9/22/2024 17:20	13.87	23.42	0.01	7.2	393.82	9.11	0.53	12.38	

EGP-STU-003 (W LNG US) 2024-09-16 to 2024-09-22

9/22/2024 17:10	13.87	23.56	0.01	7.18	394.96	9.12	0.52	12.41
9/22/2024 17:00	13.87	23.2	0.01	7.21	393.12	9.11	0.51	12.43
9/22/2024 16:50	13.88	23.5	0.01	7.19	394.18	9.12	0.53	12.33
9/22/2024 16:40	13.88	23.26	0.01	7.19	394.26	9.11	0.52	12.31
9/22/2024 16:30	13.88	23.55	0.01	7.22	392.85	9.07	0.53	12.33
9/22/2024 16:20	13.89	23.4	0.01	7.19	394.93	9.08	0.5	12.36
9/22/2024 16:10	13.9	23.49	0.01	7.2	393.76	9.08	0.52	12.48
9/22/2024 16:00	13.9	23.31	0.01	7.2	393.69	9.13	0.53	12.53
9/22/2024 15:50	13.92	23.3	0.01	7.17	395.53	9.13	0.62	12.55
9/22/2024 15:40	13.92	23.17	0.01	7.23	392.7	9.14	0.5	12.48
9/22/2024 15:30	13.93	23.34	0.01	7.23	392.14	9.15	0.51	12.55
9/22/2024 15:20	13.94	22.93	0.01	7.21	392.92	9.19	0.5	12.65
9/22/2024 15:10	13.94	23.27	0.01	7.23	391.79	9.2	0.53	12.65
9/22/2024 15:00	13.94	22.99	0.01	7.24	391.71	9.18	0.55	12.62
9/22/2024 14:50	13.94	23.22	0.01	7.24	391.36	9.19	0.53	12.65
9/22/2024 14:40	13.95	22.97	0.01	7.23	391.67	9.2	0.55	12.53
9/22/2024 14:30	13.95	23.05	0.01	7.25	390.4	9.23	0.54	12.62
9/22/2024 14:20	13.94	23.03	0.01	7.24	391.77	9.22	0.52	12.57
9/22/2024 14:10	13.94	23.12	0.01	7.23	392.29	9.2	0.51	12.5
9/22/2024 14:00	13.94	22.87	0.01	7.22	392.78	9.21	0.51	12.41
9/22/2024 14:00	13.94	22.87	0.01	7.22	392.78	9.21	0.51	12.41
9/22/2024 13:50	13.94	23.04	0.01	7.25	391.15	9.22	0.51	12.48
9/22/2024 13:40	13.93	22.72	0.01	7.23	392.08	9.23	0.51	12.67
9/22/2024 13:30	13.93	23.13	0.01	7.24	391.13	9.21	0.52	12.55
9/22/2024 13:20	13.92	22.99	0.01	7.23	392.02	9.23	0.53	12.53
9/22/2024 13:10	13.91	23.12	0.01	7.24	391.12	9.22	0.51	12.55
9/22/2024 13:00	13.89	22.94	0.01	7.23	391.71	9.22	0.52	12.48
9/22/2024 12:50	13.88	23.02	0.01	7.2	392.22	9.23	0.51	12.53
9/22/2024 12:40	13.87	23.01	0.01	7.22	391.37	9.23	0.55	12.43
9/22/2024 12:30	13.87	23.02	0.01	7.23	390.3	9.24	0.52	12.45
9/22/2024 12:30	13.87	23.02	0.01	7.23	390.3	9.24	0.52	12.45
9/22/2024 12:20	13.85	23.01	0.01	7.21	391.96	9.23	0.56	12.48
9/22/2024 12:10	13.84	23.07	0.01	7.21	391.83	9.2	0.54	12.33
9/22/2024 12:00	13.83	22.95	0.01	7.2	393.32	9.19	0.53	12.48
9/22/2024 11:50	13.83	22.95	0.01	7.2	392.74	9.16	0.54	12.41
9/22/2024 11:40	13.83	22.63	0.01	7.23	391.4	9.19	0.53	12.38
9/22/2024 11:30	13.82	22.87	0.01	7.21	392.18	9.17	0.52	12.31
9/22/2024 11:20	13.82	22.86	0.01	7.21	393.83	9.18	0.51	12.21
9/22/2024 11:10	13.81	22.92	0.01	7.18	395.67	9.2	0.51	12.29
9/22/2024 11:00	13.8	22.51	0.01	7.18	396.24	9.18	0.5	12.36
9/22/2024 10:50	13.79	22.88	0.01	7.16	397.44	9.19	0.53	12.33
9/22/2024 10:40	13.78	22.62	0.01	7.22	395.87	9.21	0.49	12.33
9/22/2024 10:30	13.78	22.86	0.01	7.22	396.4	9.22	0.51	12.24
9/22/2024 10:20	13.76	22.65	0.01	7.2	398.79	9.19	0.48	12.19
9/22/2024 10:10	13.75	22.77	0.01	7.19	399.62	9.17	0.49	12.17
9/22/2024 10:00	13.75	22.73	0.01	7.21	398.95	9.18	0.48	12.31
9/22/2024 9:50	13.74	22.88	0.01	7.2	399.63	9.2	0.49	12.31

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9/22/2024 9:40	13.73	22.78	0.01	7.24	398.97	9.2	0.48	12.09
9/22/2024 9:30	13.71	22.87	0.01	7.18	402.32	9.18	0.49	12.19
9/22/2024 9:20	13.69	22.64	0.01	7.18	402.75	9.13	0.46	12.09
9/22/2024 9:10	13.68	23.01	0.01	7.14	404.89	9.11	0.48	12
9/22/2024 9:00	13.67	22.75	0.01	7.16	404.68	9.11	0.49	12.09
9/22/2024 8:50	13.67	22.97	0.01	7.16	403.86	9.12	0.51	12.19
9/22/2024 8:40	13.66	22.72	0.01	7.16	404.58	9.12	0.47	12.26
9/22/2024 8:30	13.66	22.83	0.01	7.16	404.2	9.12	0.48	12.29
9/22/2024 8:20	13.65	22.55	0.01	7.17	404.45	9.11	0.52	12.29
9/22/2024 8:10	13.65	22.98	0.01	7.16	405.03	9.11	0.48	12.31
9/22/2024 8:00	13.64	22.87	0.01	7.16	406.02	9.11	0.48	12.36
9/22/2024 7:50	13.64	22.94	0.01	7.15	406.52	9.1	0.5	12.05
9/22/2024 7:40	13.64	22.65	0.01	7.14	407.62	9.05	0.49	11.97
9/22/2024 7:30	13.64	22.99	0.01	7.15	407.36	9.04	0.51	11.95
9/22/2024 7:20	13.63	23	0.01	7.14	408.5	9.02	0.5	12.02
9/22/2024 7:10	13.64	23.15	0.01	7.13	408.29	9.02	0.51	12.02
9/22/2024 7:00	13.64	22.93	0.01	7.14	408.35	9.02	0.46	11.97
9/22/2024 6:50	13.65	23.11	0.01	7.13	408.5	9.02	0.49	12.07
9/22/2024 6:40	13.65	22.8	0.01	7.16	407.14	9.03	0.48	12.07
9/22/2024 6:30	13.66	23.18	0.01	7.14	407.76	9.02	0.49	12
9/22/2024 6:20	13.66	22.95	0.01	7.17	406.32	9.02	0.48	12.07
9/22/2024 6:10	13.67	23.2	0.01	7.13	408.14	9.01	0.48	12.09
9/22/2024 6:00	13.68	23.07	0.01	7.12	409.19	9	0.49	12.09
9/22/2024 5:50	13.69	23.18	0.01	7.13	408.13	9	0.49	12
9/22/2024 5:40	13.69	23.04	0.01	7.16	407.75	8.99	0.49	12.12
9/22/2024 5:30	13.7	23.17	0.01	7.14	407.76	9	0.49	12.12
9/22/2024 5:20	13.71	23.02	0.01	7.16	407.51	9.02	0.48	12.12
9/22/2024 5:10	13.71	23.13	0.01	7.12	409.28	9.01	0.47	12.02
9/22/2024 5:00	13.72	22.91	0.01	7.12	409.11	9	0.51	12.12
9/22/2024 4:50	13.72	23.16	0.01	7.14	407.82	9	0.52	12.12
9/22/2024 4:40	13.73	22.79	0.01	7.15	407.66	8.99	0.5	12.14
9/22/2024 4:30	13.74	23.24	0.01	7.14	407.62	8.99	0.49	12.14
9/22/2024 4:20	13.75	22.92	0.01	7.15	407.38	8.98	0.48	12.14
9/22/2024 4:10	13.77	23.18	0.01	7.14	407.86	9.01	0.51	12.14
9/22/2024 4:00	13.78	23.1	0.01	7.12	409.28	9	0.51	12.05
9/22/2024 3:50	13.79	23.23	0.01	7.13	408.05	8.99	0.51	12.05
9/22/2024 3:40	13.8	23	0.01	7.14	407.88	8.98	0.51	12.07
9/22/2024 3:30	13.8	23.26	0.01	7.13	407.85	9	0.49	12.07
9/22/2024 3:20	13.81	23.19	0.01	7.13	408.56	8.99	0.51	12.05
9/22/2024 3:10	13.81	23.18	0.01	7.14	407.37	8.99	0.5	12.17
9/22/2024 3:00	13.82	23.21	0.01	7.15	407.58	8.98	0.51	12.17
9/22/2024 2:50	13.82	23.18	0.01	7.14	407.24	8.98	0.5	12.17
9/22/2024 2:40	13.83	23.02	0.01	7.13	408.23	9	0.51	12.07
9/22/2024 2:30	13.84	23.22	0.01	7.12	408.3	9	0.52	12.07
9/22/2024 2:20	13.84	23.22	0.01	7.15	407	8.97	0.5	12.07
9/22/2024 2:10	13.85	23.29	0.01	7.14	407.32	8.97	0.52	12.12
9/22/2024 2:00	13.86	23.16	0.01	7.12	409.27	8.98	0.51	12.19

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9/22/2024 1:50	13.86	23.31	0.01	7.13	408.04	8.97	0.51	12.19
9/22/2024 1:40	13.87	23.09	0.01	7.13	408.43	8.96	0.51	12.19
9/22/2024 1:30	13.88	23.32	0.01	7.13	407.83	8.98	0.49	12.19
9/22/2024 1:20	13.89	22.87	0.01	7.12	408.6	8.96	0.5	12.19
9/22/2024 1:10	13.91	23.3	0.01	7.12	407.7	8.95	0.5	12.09
9/22/2024 1:00	13.92	23.19	0.01	7.15	406.69	8.95	0.5	12.09
9/22/2024 0:50	13.93	23.35	0.01	7.14	406.86	8.96	0.5	12.21
9/22/2024 0:40	13.94	23.23	0.01	7.15	406.62	8.96	0.49	12.21
9/22/2024 0:30	13.95	23.35	0.01	7.13	407.65	8.96	0.48	12.21
9/22/2024 0:20	13.96	23.08	0.01	7.14	407.7	8.95	0.5	12.21
9/22/2024 0:10	13.97	23.37	0.01	7.15	406.36	8.96	0.5	12.21
9/22/2024 0:00	13.98	23.1	0.01	7.2	403.65	8.95	0.52	12.21
9/21/2024 23:50	13.99	23.38	0.01	7.11	408.33	8.95	0.51	12.21
9/21/2024 23:40	14	23.24	0.01	7.13	407.63	8.94	0.51	12.21
9/21/2024 23:30	14.01	23.32	0.01	7.09	409.29	8.94	0.5	12.21
9/21/2024 23:20	14.03	23.35	0.01	7.13	407.71	8.93	0.51	12.21
9/21/2024 23:10	14.04	23.39	0.01	7.14	406.44	8.93	0.52	12.21
9/21/2024 23:00	14.05	23.31	0.01	7.17	405.1	8.91	0.52	12.14
9/21/2024 22:50	14.07	23.46	0.01	7.14	406.59	8.92	0.51	12.21
9/21/2024 22:40	14.08	23.39	0.01	7.13	407.69	8.92	0.53	12.21
9/21/2024 22:30	14.1	23.39	0.01	7.12	407.1	8.93	0.52	12.21
9/21/2024 22:20	14.1	23.42	0.01	7.15	406.26	8.91	0.51	12.12
9/21/2024 22:10	14.12	23.5	0.01	7.13	406.78	8.93	0.5	12.14
9/21/2024 22:00	14.13	23.45	0.01	7.17	405.47	8.9	0.53	12.14
9/21/2024 21:50	14.14	23.44	0.01	7.14	406.18	8.91	0.51	12.24
9/21/2024 21:40	14.14	23.38	0.01	7.17	404.89	8.9	0.51	12.24
9/21/2024 21:30	14.15	23.47	0.01	7.14	405.86	8.91	0.53	12.17
9/21/2024 21:20	14.16	23.43	0.01	7.15	405.81	8.89	0.53	12.24
9/21/2024 21:10	14.17	23.46	0.01	7.12	406.71	8.9	0.51	12.17
9/21/2024 21:00	14.18	23.31	0.01	7.15	405.43	8.89	0.52	12.19
9/21/2024 20:50	14.19	23.46	0.01	7.12	407.11	8.9	0.49	12.26
9/21/2024 20:40	14.2	23.02	0.01	7.21	401.74	8.89	0.5	12.26
9/21/2024 20:30	14.21	23.48	0.01	7.14	405.16	8.9	0.51	12.29
9/21/2024 20:20	14.22	23.15	0.01	7.18	403.23	8.9	0.54	12.29
9/21/2024 20:10	14.23	23.49	0.01	7.15	404.09	8.91	0.52	12.29
9/21/2024 20:00	14.24	23.24	0.01	7.16	403.4	8.89	0.51	12.29
9/21/2024 19:50	14.25	23.4	0.01	7.13	404.03	8.89	0.53	12.29
9/21/2024 19:40	14.27	23.37	0.01	7.14	404.19	8.9	0.5	12.29
9/21/2024 19:30	14.29	23.43	0.01	7.16	402.06	8.89	0.52	12.29
9/21/2024 19:20	14.31	23.31	0.01	7.19	400.58	8.91	0.51	12.19
9/21/2024 19:10	14.32	23.35	0.01	7.15	401.55	8.92	0.5	12.21
9/21/2024 19:00	14.34	23.2	0.01	7.18	400.34	8.93	0.52	12.33
9/21/2024 18:50	14.35	23.19	0.01	7.18	399.38	8.96	0.53	12.24
9/21/2024 18:40	14.36	23.07	0.01	7.18	399.23	8.97	0.54	12.31
9/21/2024 18:30	14.37	23.07	0.01	7.16	399.65	8.99	0.52	12.5
9/21/2024 18:20	14.38	23.02	0.01	7.18	398.39	9.02	0.52	12.55
9/21/2024 18:10	14.39	23	0.01	7.2	396.83	9.03	0.56	12.6

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9/21/2024 18:00	14.39	22.88	0.01	7.2	397.31	9.05	0.53	12.57
9/21/2024 17:50	14.39	22.94	0.01	7.21	395.79	9.04	0.52	12.5
9/21/2024 17:40	14.39	22.84	0.01	7.24	394.41	9.05	0.53	12.48
9/21/2024 17:30	14.39	22.85	0.01	7.2	396.01	9.06	0.53	12.45
9/21/2024 17:20	14.39	22.73	0.01	7.28	391.56	9.06	0.53	12.62
9/21/2024 17:10	14.39	22.82	0.01	7.23	393.63	9.07	0.64	12.62
9/21/2024 17:00	14.39	22.45	0.01	7.27	391.19	9.11	0.53	12.72
9/21/2024 16:50	14.39	22.76	0.01	7.26	391.36	9.12	0.51	12.79
9/21/2024 16:40	14.39	22.49	0.01	7.25	391.47	9.14	0.53	12.81
9/21/2024 16:30	14.4	22.72	0.01	7.25	390.68	9.14	0.52	12.79
9/21/2024 16:20	14.4	22.44	0.01	7.27	389.97	9.17	0.54	12.62
9/21/2024 16:10	14.4	22.65	0.01	7.27	389.09	9.21	0.54	12.76
9/21/2024 16:00	14.4	22.57	0.01	7.27	389.09	9.22	0.56	13.56
9/21/2024 15:50	14.38	22.63	0.01	7.25	389.04	9.21	0.53	13.22
9/21/2024 15:40	14.39	22.4	0.01	7.31	385.62	9.24	0.53	12.6
9/21/2024 15:30	14.41	22.55	0.01	7.3	384.55	9.28	0.52	13.34
9/21/2024 15:20	14.44	22.51	0.01	7.3	384.63	9.28	0.55	13.36
9/21/2024 15:10	14.47	22.49	0.01	7.32	382.48	9.29	0.57	13.32
9/21/2024 15:00	14.48	22.51	0.01	7.34	381.36	9.3	0.52	13.51
9/21/2024 14:50	14.5	22.48	0.01	7.32	381.49	9.33	0.55	13.48
9/21/2024 14:40	14.46	22.49	0.01	7.33	381.64	9.34	0.55	13.48
9/21/2024 14:30	14.44	22.53	0.01	7.32	380.68	9.34	0.54	13.46
9/21/2024 14:20	14.4	22.44	0.01	7.32	381.38	9.33	0.54	13.46
9/21/2024 14:10	14.36	22.47	0.01	7.28	382.57	9.35	0.52	13.46
9/21/2024 14:00	14.3	22.5	0.01	7.35	378.7	9.36	0.52	13.46
9/21/2024 13:50	14.31	22.47	0.01	7.28	382.11	9.41	0.53	13.46
9/21/2024 13:40	14.24	22.43	0.01	7.31	380.27	9.38	0.53	13.36
9/21/2024 13:30	14.24	22.49	0.01	7.31	379.97	9.4	0.53	13.46
9/21/2024 13:20	14.23	22.3	0.01	7.32	379.7	9.4	0.51	13.51
9/21/2024 13:10	14.18	22.52	0.01	7.29	381.59	9.42	0.51	13.51
9/21/2024 13:00	14.12	22.25	0.01	7.36	378.59	9.46	0.53	13.56
9/21/2024 12:50	14.07	22.49	0.01	7.33	380.38	9.48	0.51	13.58
9/21/2024 12:40	14.02	22.35	0.01	7.34	380.86	9.51	0.52	13.58
9/21/2024 12:30	13.95	22.43	0.01	7.34	380.75	9.53	0.49	13.48
9/21/2024 12:20	13.85	22.27	0.01	7.36	380.64	9.55	0.51	13.6
9/21/2024 12:10	13.73	22.38	0.01	7.33	382.12	9.57	0.5	13.53
9/21/2024 12:00	13.64	22.32	0.01	7.31	384.41	9.56	0.49	13.63
9/21/2024 11:50	13.6	22.43	0.01	7.32	383.06	9.55	0.5	13.53
9/21/2024 11:40	13.61	22.23	0.01	7.32	382.58	9.56	0.49	13.63
9/21/2024 11:30	13.63	22.39	0.01	7.34	381.45	9.6	0.5	13.63
9/21/2024 11:20	13.63	22.4	0.01	7.33	382.47	9.6	0.49	13.53
9/21/2024 11:10	13.68	22.37	0.01	7.31	382.81	9.6	0.49	13.6
9/21/2024 11:00	13.77	22.32	0.01	7.33	383.06	9.61	0.51	13.63
9/21/2024 10:50	13.69	22.31	0.01	7.33	383.95	9.62	0.48	13.53
9/21/2024 10:40	13.51	22.31	0.01	7.31	387.95	9.6	0.49	13.63
9/21/2024 10:30	13.38	22.36	0.01	7.29	389.49	9.6	0.46	13.65
9/21/2024 10:20	13.26	22.28	0.01	7.27	392.5	9.58	0.44	13.67

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9/21/2024 10:10	13.14	22.52	0.01	7.26	393.02	9.54	0.46	13.2
9/21/2024 10:00	13.15	22.24	0.01	7.27	393.17	9.56	0.46	13.1
9/21/2024 9:50	13.15	22.38	0.01	7.23	395.36	9.59	0.48	12.93
9/21/2024 9:40	13.15	22.12	0.01	7.26	395.98	9.55	0.46	13.03
9/21/2024 9:30	13.1	22.45	0.01	7.25	397.29	9.53	0.44	13.63
9/21/2024 9:20	13.04	22.21	0.01	7.22	400.46	9.5	0.46	13.24
9/21/2024 9:10	13.02	22.51	0.01	7.21	401.52	9.47	0.44	12.72
9/21/2024 9:00	13	22.37	0.01	7.19	403.39	9.45	0.43	12.6
9/21/2024 8:50	12.98	22.67	0.01	7.21	402.76	9.42	0.52	12.29
9/21/2024 8:40	12.97	22.65	0.01	7.19	405.37	9.41	0.45	12.26
9/21/2024 8:30	12.97	22.62	0.01	7.18	405.52	9.4	0.46	12.24
9/21/2024 8:20	12.96	22.5	0.01	7.19	406.52	9.35	0.45	12.12
9/21/2024 8:10	12.95	22.83	0.01	7.16	407.84	9.34	0.45	12.07
9/21/2024 8:00	12.94	22.65	0.01	7.18	407.92	9.31	0.44	12.02
9/21/2024 7:50	12.94	22.86	0.01	7.15	409.21	9.27	0.44	12.07
9/21/2024 7:40	12.94	22.81	0.01	7.16	409.52	9.29	0.44	12.05
9/21/2024 7:30	12.95	22.91	0.01	7.15	409.71	9.25	0.46	12.02
9/21/2024 7:20	12.95	22.84	0.01	7.13	411.44	9.25	0.43	12
9/21/2024 7:10	12.95	22.96	0.01	7.13	410.8	9.23	0.46	11.9
9/21/2024 7:00	12.95	22.83	0.01	7.15	410.24	9.23	0.45	11.9
9/21/2024 6:50	12.96	22.84	0.01	7.14	410.07	9.23	0.44	11.93
9/21/2024 6:40	12.97	22.91	0.01	7.15	410.39	9.23	0.45	12.02
9/21/2024 6:30	12.98	22.99	0.01	7.14	410.12	9.22	0.45	12.02
9/21/2024 6:20	12.99	22.62	0.01	7.13	411.14	9.24	0.45	12.02
9/21/2024 6:10	13	22.92	0.01	7.13	410.42	9.2	0.46	12.02
9/21/2024 6:00	13.02	22.92	0.01	7.16	409.58	9.2	0.46	11.95
9/21/2024 5:50	13.03	23.03	0.01	7.15	409.62	9.21	0.47	12.02
9/21/2024 5:40	13.05	22.8	0.01	7.13	411.34	9.18	0.46	12.05
9/21/2024 5:30	13.06	23.02	0.01	7.13	410.82	9.19	0.44	11.97
9/21/2024 5:20	13.07	22.69	0.01	7.14	410.58	9.18	0.47	12.05
9/21/2024 5:10	13.09	22.95	0.01	7.13	410.86	9.18	0.47	11.97
9/21/2024 5:00	13.1	22.84	0.01	7.15	410.17	9.17	0.47	11.97
9/21/2024 4:50	13.12	22.95	0.01	7.14	409.85	9.18	0.46	12
9/21/2024 4:40	13.14	22.84	0.01	7.13	410.68	9.17	0.47	12.09
9/21/2024 4:30	13.16	23.05	0.01	7.15	409.07	9.16	0.47	12.02
9/21/2024 4:20	13.17	22.94	0.01	7.12	410.81	9.17	0.47	12.12
9/21/2024 4:10	13.2	23.04	0.01	7.13	409.75	9.17	0.48	12.12
9/21/2024 4:00	13.22	22.91	0.01	7.14	409.54	9.15	0.45	12.12
9/21/2024 3:50	13.24	22.98	0.01	7.14	409.22	9.14	0.49	12.14
9/21/2024 3:40	13.26	22.64	0.01	7.14	409.92	9.16	0.48	12.14
9/21/2024 3:30	13.28	22.97	0.01	7.13	409.44	9.13	0.48	12.12
9/21/2024 3:20	13.29	22.8	0.01	7.15	409.41	9.14	0.46	12.02
9/21/2024 3:10	13.31	23.07	0.01	7.12	410.4	9.14	0.47	12.05
9/21/2024 3:00	13.32	22.71	0.01	7.15	409.34	9.13	0.48	12.14
9/21/2024 2:50	13.34	23.13	0.01	7.15	408.69	9.14	0.46	12.14
9/21/2024 2:40	13.36	23	0.01	7.18	407.58	9.12	0.47	12.17
9/21/2024 2:30	13.38	23.02	0.01	7.14	409.26	9.1	0.48	12.17

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9/21/2024 2:20	13.39	22.68	0.01	7.13	409.86	9.12	0.47	12.14
9/21/2024 2:10	13.41	23.09	0.01	7.13	409.23	9.1	0.49	12.14
9/21/2024 2:00	13.42	22.7	0.01	7.14	409.6	9.11	0.46	12.05
9/21/2024 1:50	13.45	23.16	0.01	7.15	408.19	9.09	0.61	12.19
9/21/2024 1:40	13.46	23.06	0.01	7.13	409.36	9.07	0.46	12.09
9/21/2024 1:30	13.48	23.2	0.01	7.14	408.37	9.08	0.48	12.19
9/21/2024 1:20	13.5	23.07	0.01	7.15	408.59	9.07	0.48	12.19
9/21/2024 1:10	13.53	23.09	0.01	7.13	408.88	9.08	0.5	12.19
9/21/2024 1:00	13.55	22.75	0.01	7.18	406.38	9.07	0.5	12.09
9/21/2024 0:50	13.57	23.21	0.01	7.15	407.28	9.08	0.48	12.19
9/21/2024 0:40	13.59	23.13	0.01	7.14	408.23	9.06	0.49	12.09
9/21/2024 0:30	13.62	23.16	0.01	7.14	407.87	9.07	0.49	12.12
9/21/2024 0:20	13.64	23.05	0.01	7.12	409.32	9.05	0.49	12.09
9/21/2024 0:10	13.67	23.28	0.01	7.15	407.38	9.03	0.47	12.12
9/21/2024 0:00	13.68	22.95	0.01	7.15	407.27	9.04	0.51	12.21
9/20/2024 23:50	13.71	23.19	0.01	7.14	407.49	9.02	0.5	12.12
9/20/2024 23:40	13.73	22.83	0.01	7.12	408.56	9.02	0.48	12.12
9/20/2024 23:30	13.76	23.3	0.01	7.15	406.47	9.02	0.49	12.12
9/20/2024 23:20	13.78	23.07	0.01	7.17	405.88	9.02	0.47	12.19
9/20/2024 23:10	13.8	23.34	0.01	7.14	406.74	9.01	0.5	12.21
9/20/2024 23:00	13.82	23.23	0.01	7.17	405.59	9	0.48	12.21
9/20/2024 22:50	13.85	23.28	0.01	7.13	407.35	8.98	0.5	12.21
9/20/2024 22:40	13.86	22.88	0.01	7.15	406.6	8.99	0.52	12.24
9/20/2024 22:30	13.88	23.4	0.01	7.15	405.89	8.98	0.49	12.21
9/20/2024 22:20	13.9	23.3	0.01	7.15	406.53	8.96	0.49	12.14
9/20/2024 22:10	13.92	23.29	0.01	7.15	405.5	8.97	0.5	12.12
9/20/2024 22:00	13.94	23.06	0.01	7.18	404.16	8.96	0.5	12.21
9/20/2024 21:50	13.97	23.4	0.01	7.15	405.14	8.96	0.53	12.24
9/20/2024 21:40	13.99	23.25	0.01	7.13	406.62	8.93	0.5	12.24
9/20/2024 21:30	14.02	23.34	0.01	7.14	405.92	8.95	0.53	12.24
9/20/2024 21:20	14.05	23.32	0.01	7.16	404.86	8.92	0.53	12.26
9/20/2024 21:10	14.08	23.35	0.01	7.14	405.68	8.92	0.51	12.24
9/20/2024 21:00	14.11	23.05	0.01	7.14	405.69	8.89	0.52	12.24
9/20/2024 20:50	14.14	23.31	0.01	7.15	404.36	8.9	0.5	12.14
9/20/2024 20:40	14.17	23.06	0.01	7.15	404.68	8.9	0.53	12.17
9/20/2024 20:30	14.2	23.42	0.01	7.14	403.91	8.88	0.51	12.26
9/20/2024 20:20	14.23	23.35	0.01	7.17	403.14	8.88	0.52	12.26
9/20/2024 20:10	14.26	23.41	0.01	7.16	402.83	8.88	0.51	12.26
9/20/2024 20:00	14.29	23.33	0.01	7.22	399.9	8.87	0.53	12.26
9/20/2024 19:50	14.32	23.4	0.01	7.15	402.59	8.87	0.51	12.19
9/20/2024 19:40	14.35	23.31	0.01	7.16	402.73	8.87	0.53	12.26
9/20/2024 19:30	14.38	23.38	0.01	7.16	402.01	8.87	0.53	12.29
9/20/2024 19:20	14.41	23.27	0.01	7.18	400.64	8.85	0.52	12.29
9/20/2024 19:10	14.43	23.31	0.01	7.17	400.47	8.89	0.51	12.31
9/20/2024 19:00	14.46	23.19	0.01	7.19	399.3	8.89	0.53	12.31
9/20/2024 18:50	14.48	23.33	0.01	7.17	399.6	8.88	0.54	12.24
9/20/2024 18:40	14.51	23.24	0.01	7.16	400.44	8.89	0.54	12.31

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9/20/2024 18:30	14.53	23.29	0.01	7.19	397.87	8.89	0.54	12.24
9/20/2024 18:20	14.55	23.17	0.01	7.19	398.33	8.91	0.54	12.26
9/20/2024 18:10	14.57	23.18	0.01	7.19	397.34	8.9	0.52	12.29
9/20/2024 18:00	14.59	23.05	0.01	7.17	398.67	8.91	0.55	12.38
9/20/2024 17:50	14.61	23.21	0.01	7.18	396.91	8.92	0.54	12.33
9/20/2024 17:40	14.63	22.95	0.01	7.2	396.53	8.93	0.55	12.36
9/20/2024 17:30	14.65	23.07	0.01	7.2	395.02	8.93	0.54	12.48
9/20/2024 17:20	14.66	22.92	0.01	7.22	394.34	8.95	0.55	12.45
9/20/2024 17:10	14.66	23.02	0.01	7.23	393.04	8.95	0.62	12.6
9/20/2024 17:00	14.67	22.95	0.01	7.23	393.91	8.97	0.55	12.62
9/20/2024 16:50	14.67	23.01	0.01	7.23	392.25	8.99	0.55	12.6
9/20/2024 16:40	14.68	22.93	0.01	7.24	392.5	8.99	0.54	12.74
9/20/2024 16:30	14.69	22.9	0.01	7.21	393.06	9.03	0.57	12.72
9/20/2024 16:20	14.7	22.57	0.01	7.24	391.3	9.06	0.55	12.93
9/20/2024 16:10	14.71	22.9	0.01	7.27	388.72	9.07	0.54	13.46
9/20/2024 16:00	14.72	22.84	0.01	7.25	390.25	9.05	0.56	13
9/20/2024 15:50	14.73	22.88	0.01	7.26	388.51	9.05	0.6	13.44
9/20/2024 15:40	14.75	22.72	0.01	7.27	388.55	9.06	0.57	13.39
9/20/2024 15:30	14.78	22.78	0.01	7.28	386.89	9.09	0.55	13.46
9/20/2024 15:20	14.82	22.42	0.01	7.31	385.6	9.12	0.58	13.46
9/20/2024 15:10	14.84	22.71	0.01	7.3	384.57	9.16	0.57	13.22
9/20/2024 15:00	14.85	22.38	0.01	7.3	384.79	9.2	0.57	13.24
9/20/2024 14:50	14.85	22.65	0.01	7.3	383.1	9.19	0.55	13.48
9/20/2024 14:40	14.84	22.4	0.01	7.32	382.05	9.19	0.57	13.46
9/20/2024 14:30	14.82	22.66	0.01	7.3	381.82	9.21	0.56	13.34
9/20/2024 14:20	14.79	22.56	0.01	7.3	381.81	9.24	0.58	13.34
9/20/2024 14:10	14.74	22.58	0.01	7.31	380.24	9.24	0.54	13.34
9/20/2024 14:00	14.7	22.48	0.01	7.37	377.95	9.27	0.56	13.34
9/20/2024 13:50	14.67	22.58	0.01	7.34	378.87	9.3	0.56	13.36
9/20/2024 13:40	14.62	22.37	0.01	7.37	378.15	9.31	0.56	13.41
9/20/2024 13:30	14.53	22.49	0.01	7.3	382.08	9.38	0.56	13.56
9/20/2024 13:20	14.39	22.36	0.01	7.36	380.77	9.41	0.54	13.48
9/20/2024 13:10	14.25	22.41	0.01	7.35	382.2	9.42	0.51	13.6
9/20/2024 13:00	14.17	22.22	0.01	7.35	383.07	9.43	0.53	13.6
9/20/2024 12:50	14.13	22.47	0.01	7.34	382.93	9.42	0.5	13.6
9/20/2024 12:40	14.11	22.42	0.01	7.34	383.81	9.44	0.53	13.63
9/20/2024 12:30	14.08	22.44	0.01	7.33	384.4	9.44	0.51	13.63
9/20/2024 12:30	14.08	22.44	0.01	7.33	384.4	9.44	0.51	13.63
9/20/2024 12:20	14.02	22.37	0.01	7.34	385.08	9.41	0.53	13.63
9/20/2024 12:10	13.97	22.45	0.01	7.3	387.22	9.37	0.52	13.65
9/20/2024 12:00	13.92	22.53	0.01	7.28	389.55	9.34	0.5	13.65
9/20/2024 11:50	13.89	22.57	0.01	7.27	389.49	9.31	0.5	13.32
9/20/2024 11:40	13.89	22.26	0.01	7.27	389.74	9.34	0.5	13.1
9/20/2024 11:30	13.89	22.58	0.01	7.29	387.96	9.36	0.51	13.63
9/20/2024 11:20	13.9	22.32	0.01	7.3	387.29	9.39	0.5	13.51
9/20/2024 11:10	13.92	22.49	0.01	7.3	386.67	9.42	0.53	13.63
9/20/2024 11:00	13.91	22.29	0.01	7.33	386.27	9.44	0.49	13.63

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9/20/2024 10:50	13.86	22.43	0.01	7.3	387.66	9.4	0.5	13.6
9/20/2024 10:40	13.82	22.47	0.01	7.29	389.27	9.39	0.48	13.6
9/20/2024 10:30	13.8	22.56	0.01	7.28	389.36	9.38	0.52	13.65
9/20/2024 10:20	13.8	22.33	0.01	7.3	388.06	9.37	0.49	13.41
9/20/2024 10:10	13.83	22.6	0.01	7.29	388.04	9.4	0.52	13.03
9/20/2024 10:00	13.88	22.51	0.01	7.29	389.42	9.43	0.5	13.51
9/20/2024 9:50	13.83	22.59	0.01	7.28	389.92	9.41	0.52	13.6
9/20/2024 9:40	13.72	22.48	0.01	7.26	393.22	9.38	0.5	13.6
9/20/2024 9:30	13.62	22.66	0.01	7.25	394.62	9.36	0.46	13.51
9/20/2024 9:20	13.54	22.5	0.01	7.28	394.87	9.32	0.48	13.1
9/20/2024 9:10	13.53	22.77	0.01	7.23	397.7	9.32	0.47	12.84
9/20/2024 9:00	13.51	22.6	0.01	7.24	398.39	9.28	0.46	13.12
9/20/2024 8:50	13.48	22.83	0.01	7.21	400.1	9.24	0.5	12.76
9/20/2024 8:40	13.47	22.74	0.01	7.19	402.79	9.23	0.48	12.62
9/20/2024 8:30	13.46	22.92	0.01	7.19	402.79	9.19	0.48	12.53
9/20/2024 8:20	13.45	22.62	0.01	7.16	405.05	9.17	0.47	12.41
9/20/2024 8:10	13.44	22.94	0.01	7.16	405.15	9.13	0.49	12.21
9/20/2024 8:00	13.44	22.86	0.01	7.15	406.39	9.1	0.49	12.33
9/20/2024 7:50	13.45	23.05	0.01	7.16	405.32	9.09	0.5	12.09
9/20/2024 7:40	13.46	22.95	0.01	7.14	407.51	9.07	0.5	12
9/20/2024 7:30	13.48	23.1	0.01	7.15	406.8	9.06	0.47	11.93
9/20/2024 7:20	13.49	22.95	0.01	7.18	405.96	9.06	0.49	12.05
9/20/2024 7:10	13.51	22.99	0.01	7.13	408.52	9.04	0.49	12.05
9/20/2024 7:00	13.52	22.91	0.01	7.15	408.12	9.04	0.48	12.02
9/20/2024 6:50	13.53	23.1	0.01	7.15	407.6	9.04	0.48	12.02
9/20/2024 6:40	13.53	22.74	0.01	7.16	407.65	9.03	0.48	12.05
9/20/2024 6:30	13.53	23.17	0.01	7.15	407.19	9.03	0.49	12.05
9/20/2024 6:20	13.54	23.02	0.01	7.15	407.95	9.03	0.48	12.05
9/20/2024 6:10	13.55	23.13	0.01	7.11	409.64	9.03	0.48	12.05
9/20/2024 6:00	13.55	22.93	0.01	7.15	407.9	9.02	0.49	12.07
9/20/2024 5:50	13.56	23.02	0.01	7.15	407.41	9.01	0.47	12.07
9/20/2024 5:40	13.57	23.06	0.01	7.17	406.7	8.99	0.49	12.07
9/20/2024 5:30	13.59	23.19	0.01	7.14	407.38	9.01	0.5	11.97
9/20/2024 5:20	13.6	23.05	0.01	7.15	407.79	9	0.51	12.07
9/20/2024 5:10	13.62	23.07	0.01	7.15	407.33	8.99	0.48	12.09
9/20/2024 5:00	13.62	22.77	0.01	7.14	408.32	8.99	0.49	12.09
9/20/2024 4:50	13.63	23.08	0.01	7.13	407.48	9	0.5	12.09
9/20/2024 4:40	13.65	23.08	0.01	7.14	407.57	9	0.49	12.09
9/20/2024 4:30	13.66	23.14	0.01	7.14	406.9	8.99	0.49	12.07
9/20/2024 4:20	13.68	23.07	0.01	7.15	406.71	8.99	0.5	12
9/20/2024 4:10	13.69	23.1	0.01	7.15	406.1	8.98	0.53	12
9/20/2024 4:00	13.71	23.04	0.01	7.16	406.21	8.98	0.5	12.02
9/20/2024 3:50	13.73	23.13	0.01	7.11	407.93	8.96	0.5	12.02
9/20/2024 3:40	13.74	23.18	0.01	7.13	407.96	8.95	0.5	12.14
9/20/2024 3:30	13.76	23.13	0.01	7.14	406.6	8.96	0.51	12.14
9/20/2024 3:20	13.77	23.06	0.01	7.17	405.7	8.96	0.52	12.14
9/20/2024 3:10	13.78	23.23	0.01	7.14	406.87	8.94	0.51	12.12

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9/20/2024 3:00	13.79	22.85	0.01	7.15	407.38	8.94	0.5	12.05
9/20/2024 2:50	13.81	23.26	0.01	7.15	406.22	8.94	0.48	12.05
9/20/2024 2:40	13.84	23.15	0.01	7.14	406.7	8.92	0.5	12.07
9/20/2024 2:30	13.86	23.32	0.01	7.15	405.89	8.93	0.51	12.07
9/20/2024 2:20	13.88	22.94	0.01	7.15	406.73	8.92	0.5	12.07
9/20/2024 2:10	13.9	23.37	0.01	7.14	406.1	8.93	0.53	12.09
9/20/2024 2:00	13.92	23.25	0.01	7.14	406.14	8.91	0.51	12.07
9/20/2024 1:50	13.95	23.29	0.01	7.13	406.27	8.89	0.51	12.07
9/20/2024 1:40	13.97	23.23	0.01	7.15	405.81	8.91	0.51	12.07
9/20/2024 1:30	14.01	23.32	0.01	7.14	405.38	8.89	0.51	12.07
9/20/2024 1:20	14.04	23.3	0.01	7.15	405.88	8.88	0.53	12.17
9/20/2024 1:10	14.06	23.47	0.01	7.14	405.77	8.87	0.52	12.19
9/20/2024 1:00	14.09	23.34	0.01	7.14	406.7	8.88	0.52	12.19
9/20/2024 0:50	14.12	23.46	0.01	7.13	406.49	8.87	0.53	12.19
9/20/2024 0:40	14.15	23.04	0.01	7.14	406.56	8.86	0.49	12.21
9/20/2024 0:30	14.17	23.51	0.01	7.15	404.72	8.85	0.53	12.21
9/20/2024 0:20	14.2	23.17	0.01	7.15	405.51	8.83	0.54	12.21
9/20/2024 0:10	14.23	23.53	0.01	7.14	405.1	8.83	1.51	12.19
9/20/2024 0:00	14.25	23.45	0.01	7.17	403.75	8.84	0.53	12.21
9/19/2024 23:50	14.28	23.56	0.01	7.15	404.44	8.8	0.53	12.21
9/19/2024 23:40	14.31	23.37	0.01	7.14	405.68	8.83	0.54	12.21
9/19/2024 23:30	14.33	23.54	0.01	7.14	404.87	8.8	0.53	12.12
9/19/2024 23:20	14.36	23.48	0.01	7.14	405.33	8.8	0.58	12.14
9/19/2024 23:10	14.38	23.52	0.01	7.14	404.59	8.78	0.53	12.21
9/19/2024 23:00	14.41	23.28	0.01	7.16	404.02	8.77	0.53	12.12
9/19/2024 22:50	14.44	23.5	0.01	7.13	404.98	8.78	0.54	12.21
9/19/2024 22:40	14.47	23.27	0.01	7.13	405.68	8.76	0.55	12.21
9/19/2024 22:30	14.5	23.62	0.01	7.15	404.47	8.77	0.53	12.24
9/19/2024 22:20	14.53	23.34	0.01	7.15	404.47	8.76	0.55	12.24
9/19/2024 22:10	14.55	23.57	0.01	7.13	404.64	8.74	0.56	12.21
9/19/2024 22:00	14.58	23.5	0.01	7.15	404.19	8.75	0.55	12.21
9/19/2024 21:50	14.61	23.55	0.01	7.15	403.61	8.74	0.54	12.21
9/19/2024 21:40	14.63	23.48	0.01	7.16	403.22	8.72	0.52	12.24
9/19/2024 21:30	14.65	23.58	0.01	7.14	403.68	8.73	0.54	12.26
9/19/2024 21:20	14.68	23.43	0.01	7.16	402.65	8.73	0.53	12.26
9/19/2024 21:10	14.71	23.64	0.01	7.15	402.6	8.72	0.55	12.26
9/19/2024 21:00	14.73	23.39	0.01	7.16	402.46	8.72	0.55	12.26
9/19/2024 20:50	14.75	23.59	0.01	7.15	402.22	8.7	0.54	12.26
9/19/2024 20:40	14.77	23.12	0.01	7.18	401.16	8.7	0.56	12.26
9/19/2024 20:30	14.79	23.59	0.01	7.14	402.67	8.7	0.55	12.26
9/19/2024 20:20	14.81	23.55	0.01	7.16	402.07	8.69	0.55	12.26
9/19/2024 20:10	14.83	23.62	0.01	7.15	401.22	8.69	0.57	12.19
9/19/2024 20:00	14.86	23.55	0.01	7.15	402.02	8.69	0.57	12.29
9/19/2024 19:50	14.89	23.63	0.01	7.15	400.96	8.69	0.56	12.29
9/19/2024 19:40	14.92	23.55	0.01	7.17	399.71	8.69	0.57	12.29
9/19/2024 19:30	14.95	23.56	0.01	7.17	398.96	8.67	0.55	12.21
9/19/2024 19:20	14.97	23.47	0.01	7.18	398.96	8.69	0.58	12.19

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9/19/2024 19:10	15	23.51	0.01	7.16	398.66	8.69	0.58	12.21
9/19/2024 19:00	15.03	23.43	0.01	7.17	398.49	8.69	0.58	12.29
9/19/2024 18:50	15.06	23.49	0.01	7.18	397.32	8.7	0.56	12.36
9/19/2024 18:40	15.09	23.06	0.01	7.22	395.39	8.7	0.57	12.36
9/19/2024 18:30	15.11	23.46	0.01	7.19	396.14	8.72	0.59	12.38
9/19/2024 18:20	15.14	23.2	0.01	7.21	395.03	8.71	0.59	12.41
9/19/2024 18:10	15.16	23.39	0.01	7.2	394.23	8.74	0.59	12.33
9/19/2024 18:00	15.18	23.32	0.01	7.23	393.22	8.73	0.59	12.43
9/19/2024 17:50	15.21	23.35	0.01	7.2	394.38	8.73	0.59	12.45
9/19/2024 17:40	15.23	23.03	0.01	7.22	393.42	8.76	0.58	12.57
9/19/2024 17:30	15.26	23.24	0.01	7.23	392.12	8.77	0.58	12.62
9/19/2024 17:20	15.27	23.14	0.01	7.24	391.42	8.77	0.6	12.6
9/19/2024 17:10	15.29	23.17	0.01	7.23	391.43	8.79	0.59	12.6
9/19/2024 17:00	15.3	23.04	0.01	7.23	391.67	8.8	0.61	12.62
9/19/2024 16:50	15.32	23.08	0.01	7.25	389.7	8.83	0.6	12.6
9/19/2024 16:40	15.34	23.03	0.01	7.24	390.41	8.84	0.62	12.74
9/19/2024 16:30	15.35	23.12	0.01	7.26	387.86	8.87	0.6	12.57
9/19/2024 16:20	15.36	22.87	0.01	7.26	388.37	8.87	0.61	12.69
9/19/2024 16:10	15.38	23.08	0.01	7.26	387.17	8.91	0.61	12.67
9/19/2024 16:00	15.4	22.68	0.01	7.28	386.15	8.95	0.61	12.98
9/19/2024 15:50	15.42	23.01	0.01	7.29	384.65	8.96	0.61	13.44
9/19/2024 15:40	15.4	22.8	0.01	7.28	385.25	9	0.61	13.48
9/19/2024 15:30	15.41	22.95	0.01	7.3	382.88	8.99	0.61	13.44
9/19/2024 15:20	15.4	22.69	0.01	7.31	383.31	9.01	0.59	13.44
9/19/2024 15:10	15.36	22.97	0.01	7.32	381.77	9.05	0.62	13.48
9/19/2024 15:00	15.31	22.61	0.01	7.31	382.46	9.03	0.62	13.51
9/19/2024 14:50	15.24	22.95	0.01	7.31	381.24	9.04	0.57	13.53
9/19/2024 14:40	15.17	22.89	0.01	7.29	382.1	9.04	0.6	13.51
9/19/2024 14:30	15.2	22.96	0.01	7.29	380.55	9.04	0.61	13.51
9/19/2024 14:20	15.17	22.91	0.01	7.31	380.02	9.06	0.59	13.48
9/19/2024 14:10	15.2	22.88	0.01	7.31	378.32	9.06	0.64	13.2
9/19/2024 14:00	15.22	22.84	0.01	7.32	378.14	9.11	0.57	13.34
9/19/2024 13:50	15.21	22.89	0.01	7.33	376.83	9.13	0.58	13.46
9/19/2024 13:40	15.16	22.84	0.01	7.33	377.34	9.18	0.57	13.51
9/19/2024 13:30	15.06	22.91	0.01	7.31	377.94	9.19	0.6	13.51
9/19/2024 13:20	15.03	22.78	0.01	7.31	378.94	9.18	0.58	13.53
9/19/2024 13:10	14.93	22.89	0.01	7.3	379.66	9.19	0.57	13.53
9/19/2024 13:00	14.83	22.77	0.01	7.35	378.03	9.15	0.56	13.46
9/19/2024 12:50	14.83	23.02	0.01	7.28	380.36	9.12	0.56	13.56
9/19/2024 12:40	14.88	22.53	0.01	7.3	379.02	9.15	0.56	12.96
9/19/2024 12:30	14.99	23.02	0.01	7.31	377.08	9.19	0.58	13.44
9/19/2024 12:20	15.04	22.99	0.01	7.38	373.9	9.2	0.58	13.36
9/19/2024 12:10	15.03	23.04	0.01	7.33	376.6	9.21	0.57	13.51
9/19/2024 12:00	14.99	22.89	0.01	7.33	378.21	9.26	0.56	13.53
9/19/2024 11:50	14.86	22.91	0.01	7.33	378.84	9.26	0.55	13.53
9/19/2024 11:40	14.69	22.73	0.01	7.35	380.08	9.27	0.54	13.56
9/19/2024 11:30	14.47	22.91	0.01	7.3	384.17	9.23	0.53	13.53

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9/19/2024 11:20	14.41	22.79	0.01	7.28	386.08	9.23	0.52	13.17
9/19/2024 11:10	14.36	23.06	0.01	7.26	387.44	9.18	0.54	12.84
9/19/2024 11:00	14.34	22.9	0.01	7.25	388.77	9.18	0.53	12.67
9/19/2024 10:50	14.33	23.09	0.01	7.27	387.97	9.19	0.52	12.81
9/19/2024 10:40	14.3	22.91	0.01	7.24	390.62	9.15	0.52	12.79
9/19/2024 10:30	14.27	23.29	0.01	7.22	391.54	9.13	0.5	12.65
9/19/2024 10:20	14.24	23.28	0.01	7.23	392.13	9.1	0.53	12.45
9/19/2024 10:10	14.23	23.33	0.01	7.22	392.55	9.08	0.53	12.36
9/19/2024 10:00	14.21	23.08	0.01	7.2	394.42	9.07	0.52	12.38
9/19/2024 9:50	14.2	23.53	0.01	7.18	394.99	9.04	0.53	12.26
9/19/2024 9:40	14.19	23.44	0.01	7.21	394.9	9.05	0.53	12.09
9/19/2024 9:30	14.18	23.59	0.01	7.19	395.22	9.06	0.5	12.07
9/19/2024 9:20	14.18	23.48	0.01	7.23	394.27	9.08	0.51	12.17
9/19/2024 9:10	14.18	23.54	0.01	7.21	395.27	9.09	0.52	12.24
9/19/2024 9:00	14.15	23.35	0.01	7.19	397.22	9.04	0.51	12.12
9/19/2024 8:50	14.14	23.6	0.01	7.17	398.6	9.02	0.52	12.21
9/19/2024 8:40	14.13	23.58	0.01	7.19	398.72	9.01	0.52	12.19
9/19/2024 8:30	14.12	23.84	0.01	7.17	399.61	8.98	0.5	12.07
9/19/2024 8:20	14.12	23.81	0.01	7.17	400.56	8.96	0.51	12.07
9/19/2024 8:10	14.11	23.94	0.01	7.16	400.67	8.95	0.51	12.07
9/19/2024 8:00	14.11	23.85	0.01	7.18	401.04	8.95	0.5	12.05
9/19/2024 7:50	14.1	24.04	0.01	7.15	402.07	8.92	0.52	12.05
9/19/2024 7:40	14.1	23.75	0.01	7.14	402.92	8.92	0.51	11.93
9/19/2024 7:30	14.11	24.11	0.01	7.13	403.75	8.88	0.5	11.93
9/19/2024 7:20	14.11	24.05	0.01	7.13	404.46	8.88	0.5	11.93
9/19/2024 7:10	14.12	24.13	0.01	7.13	403.99	8.89	0.52	12.05
9/19/2024 7:00	14.12	23.95	0.01	7.14	404.23	8.9	0.49	12.02
9/19/2024 6:50	14.13	24.21	0.01	7.12	405.12	8.88	0.51	12.02
9/19/2024 6:40	14.14	23.97	0.01	7.13	405.13	8.87	0.52	12.02
9/19/2024 6:30	14.14	24.32	0.01	7.13	404.25	8.88	0.52	11.93
9/19/2024 6:20	14.16	24.34	0.01	7.14	404.22	8.89	0.51	11.95
9/19/2024 6:10	14.17	24.33	0.01	7.13	404.33	8.87	0.52	12.02
9/19/2024 6:00	14.18	24.4	0.01	7.12	405.72	8.89	0.53	12.02
9/19/2024 5:50	14.18	24.6	0.01	7.12	405.53	8.85	0.53	12.02
9/19/2024 5:40	14.18	24.33	0.01	7.13	405.7	8.87	0.52	12.07
9/19/2024 5:30	14.19	24.74	0.01	7.13	405.09	8.86	0.51	12.07
9/19/2024 5:20	14.2	24.68	0.01	7.14	405.16	8.86	0.53	12.07
9/19/2024 5:10	14.21	24.78	0.01	7.11	405.98	8.87	0.52	12.09
9/19/2024 5:00	14.22	24.79	0.01	7.13	405.86	8.86	0.52	12.09
9/19/2024 4:50	14.23	24.98	0.01	7.11	405.46	8.86	0.53	12.09
9/19/2024 4:40	14.25	25.03	0.01	7.15	404.21	8.85	0.52	12.09
9/19/2024 4:30	14.27	25.07	0.01	7.15	403.66	8.83	0.51	12.12
9/19/2024 4:20	14.29	25.18	0.01	7.18	402.45	8.84	0.53	12.12
9/19/2024 4:10	14.31	25.43	0.01	7.13	404.09	8.84	0.52	12.12
9/19/2024 4:00	14.33	25.2	0.01	7.18	401.83	8.85	0.54	12.09
9/19/2024 3:50	14.34	25.5	0.01	7.14	404.05	8.82	0.53	12.02
9/19/2024 3:40	14.36	25.58	0.01	7.14	404.15	8.83	0.52	12.12

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9/19/2024 3:30	14.37	25.9	0.01	7.14	403.17	8.83	0.53	12.14
9/19/2024 3:20	14.39	25.95	0.01	7.14	403.76	8.81	0.52	12.12
9/19/2024 3:10	14.4	26.13	0.01	7.14	403.16	8.83	0.52	12.07
9/19/2024 3:00	14.41	26.26	0.01	7.14	404.13	8.84	0.52	12.14
9/19/2024 2:50	14.42	26.55	0.01	7.15	402.77	8.82	0.52	12.14
9/19/2024 2:40	14.43	26.71	0.01	7.11	406.14	8.82	0.52	12.05
9/19/2024 2:30	14.44	27.04	0.01	7.14	403.46	8.81	0.55	12.05
9/19/2024 2:20	14.45	27.33	0.01	7.13	405.19	8.81	0.49	12.14
9/19/2024 2:10	14.46	27.83	0.01	7.14	404.28	8.8	0.5	12.17
9/19/2024 2:00	14.47	27.78	0.01	7.15	404.14	8.8	0.51	12.17
9/19/2024 1:50	14.48	28.47	0.01	7.14	403.84	8.81	0.51	12.09
9/19/2024 1:40	14.49	28.51	0.01	7.13	405.21	8.79	0.55	12.17
9/19/2024 1:30	14.5	28.67	0.01	7.14	404.61	8.79	0.54	12.17
9/19/2024 1:20	14.51	28.37	0.01	7.14	405.04	8.78	0.54	12.17
9/19/2024 1:10	14.53	28.1	0.01	7.14	404.9	8.79	0.55	12.17
9/19/2024 1:00	14.54	27.4	0.01	7.11	406.9	8.78	0.53	12.14
9/19/2024 0:50	14.56	26.57	0.01	7.15	404.43	8.78	0.54	12.09
9/19/2024 0:40	14.57	25.71	0.01	7.11	407.44	8.75	0.55	12.17
9/19/2024 0:30	14.59	25.06	0.01	7.12	405.84	8.78	0.54	12.19
9/19/2024 0:20	14.6	24.08	0.01	7.16	404.58	8.77	0.55	12.19
9/19/2024 0:10	14.63	23.99	0.01	7.14	405.4	8.76	0.53	12.19
9/19/2024 0:00	14.65	23.42	0.01	7.14	405.97	8.76	0.54	12.19
9/18/2024 23:50	14.67	23.75	0.01	7.13	405.95	8.73	0.57	12.17
9/18/2024 23:40	14.69	23.64	0.01	7.13	406.4	8.75	0.56	12.21
9/18/2024 23:30	14.72	23.75	0.01	7.12	406.54	8.71	0.54	12.21
9/18/2024 23:20	14.74	23.68	0.01	7.14	406.34	8.74	0.53	12.21
9/18/2024 23:10	14.76	23.75	0.01	7.14	406.06	8.71	0.56	12.21
9/18/2024 23:00	14.78	23.69	0.01	7.12	407.8	8.72	0.53	12.19
9/18/2024 22:50	14.81	23.77	0.01	7.13	406.77	8.71	0.55	12.21
9/18/2024 22:40	14.83	23.36	0.01	7.15	406.15	8.7	0.56	12.12
9/18/2024 22:30	14.86	23.78	0.01	7.13	406.38	8.69	0.54	12.21
9/18/2024 22:20	14.88	23.58	0.01	7.12	407.47	8.7	0.55	12.21
9/18/2024 22:10	14.91	23.84	0.01	7.14	405.44	8.68	0.56	12.21
9/18/2024 22:00	14.93	23.53	0.01	7.15	405.41	8.67	0.55	12.14
9/18/2024 21:50	14.95	23.82	0.01	7.13	405.6	8.66	0.56	12.21
9/18/2024 21:40	14.97	23.77	0.01	7.13	406.04	8.66	0.58	12.14
9/18/2024 21:30	15	23.8	0.01	7.13	405.63	8.65	0.58	12.14
9/18/2024 21:20	15.02	23.7	0.01	7.14	406.09	8.66	0.56	12.14
9/18/2024 21:10	15.04	23.92	0.01	7.13	405.83	8.64	0.56	12.24
9/18/2024 21:00	15.06	23.75	0.01	7.15	405.36	8.65	0.6	12.24
9/18/2024 20:50	15.08	23.94	0.01	7.12	406.28	8.65	0.58	12.24
9/18/2024 20:40	15.1	23.92	0.01	7.17	403.16	8.63	0.59	12.26
9/18/2024 20:30	15.11	24.04	0.01	7.13	404.57	8.62	0.6	12.26
9/18/2024 20:20	15.13	23.81	0.01	7.13	404.6	8.61	0.61	12.26
9/18/2024 20:10	15.14	24.07	0.01	7.14	403.42	8.65	0.61	12.26
9/18/2024 20:00	15.17	23.8	0.01	7.14	403.64	8.61	0.59	12.26
9/18/2024 19:50	15.2	23.98	0.01	7.12	404.03	8.63	0.6	12.26

EGP-STU-003 (WLNG US) 2024-09-16 to 2024-09-22

9/18/2024 19:40	15.22	23.72	0.01	7.15	402.31	8.62	0.64	12.26
9/18/2024 19:30	15.25	23.69	0.01	7.13	402.82	8.61	0.6	12.26
9/18/2024 19:20	15.27	23.58	0.01	7.15	401.68	8.64	0.6	12.19
9/18/2024 19:10	15.3	23.57	0.01	7.14	401.41	8.63	0.61	12.29
9/18/2024 19:00	15.32	23.44	0.01	7.16	400.33	8.65	0.62	12.29
9/18/2024 18:50	15.35	23.53	0.01	7.15	399.87	8.65	0.63	12.29
9/18/2024 18:40	15.37	23.43	0.01	7.16	400.32	8.66	0.64	12.19
9/18/2024 18:30	15.4	23.53	0.01	7.15	399.18	8.64	0.66	12.19
9/18/2024 18:20	15.42	23.42	0.01	7.16	399.34	8.68	0.66	12.33
9/18/2024 18:10	15.45	23.45	0.01	7.16	398.44	8.66	0.65	12.36
9/18/2024 18:00	15.47	23.24	0.01	7.17	398	8.66	0.66	12.33
9/18/2024 17:50	15.49	23.39	0.01	7.19	396.39	8.68	0.64	12.26
9/18/2024 17:40	15.51	23.17	0.01	7.19	396.47	8.67	0.66	12.33
9/18/2024 17:30	15.52	23.29	0.01	7.19	395.5	8.67	0.65	12.29
9/18/2024 17:20	15.53	23.1	0.01	7.21	394.81	8.69	0.66	12.43
9/18/2024 17:10	15.54	23.28	0.01	7.21	393.55	8.71	0.67	12.57
9/18/2024 17:00	15.55	23.12	0.01	7.21	393.56	8.73	0.65	12.57
9/18/2024 16:50	15.56	23.23	0.01	7.21	392.46	8.72	0.69	12.57
9/18/2024 16:40	15.58	23.15	0.01	7.23	391.27	8.74	0.68	12.65
9/18/2024 16:30	15.59	23.22	0.01	7.22	390.78	8.73	0.68	12.57
9/18/2024 16:20	15.6	23.04	0.01	7.24	389.77	8.75	0.68	12.6
9/18/2024 16:10	15.62	23.17	0.01	7.22	390.3	8.76	0.71	12.5
9/18/2024 16:00	15.64	22.99	0.01	7.24	388.59	8.78	0.69	12.65
9/18/2024 15:50	15.68	23.05	0.01	7.24	387.84	8.79	0.69	12.65
9/18/2024 15:40	15.7	22.81	0.01	7.27	386.07	8.82	0.7	12.79
9/18/2024 15:30	15.74	23.1	0.01	7.26	385.39	8.85	0.69	12.6
9/18/2024 15:20	15.77	22.87	0.01	7.3	383.37	8.89	0.7	12.96
9/18/2024 15:10	15.82	22.98	0.01	7.29	382.08	8.91	0.72	12.98
9/18/2024 15:00	15.8	22.87	0.01	7.28	382.92	8.93	0.72	13.2
9/18/2024 14:50	15.78	22.87	0.01	7.28	381.87	8.96	0.7	13.32
9/18/2024 14:40	15.76	22.71	0.01	7.28	381.75	8.95	0.71	13.41
9/18/2024 14:30	15.75	22.9	0.01	7.3	379.47	8.98	0.71	13.39
9/18/2024 14:20	15.71	22.74	0.01	7.3	379.32	9	0.72	13.27
9/18/2024 14:10	15.66	22.93	0.01	7.29	378.08	9	0.7	13.36
9/18/2024 14:00	15.62	22.85	0.01	7.32	376.45	9.03	0.68	13.34
9/18/2024 13:50	15.64	22.92	0.01	7.27	377.59	9.02	0.7	13.36
9/18/2024 13:40	15.59	22.79	0.01	7.31	375.88	9.04	0.66	13.36
9/18/2024 13:30	15.56	22.88	0.01	7.3	374.89	9.08	0.67	13.39
9/18/2024 13:20	15.52	22.84	0.01	7.32	374.93	9.1	0.68	13.41
9/18/2024 13:10	15.49	22.92	0.01	7.3	375.32	9.11	0.67	13.44
9/18/2024 13:00	15.42	22.75	0.01	7.3	376.09	9.12	0.65	13.48
9/18/2024 12:50	15.38	22.91	0.01	7.3	375.64	9.13	0.65	13.34
9/18/2024 12:40	15.33	22.84	0.01	7.29	376.54	9.12	0.67	13.51
9/18/2024 12:30	15.33	22.93	0.01	7.29	375.38	9.13	0.66	13.51
9/18/2024 12:20	15.35	22.87	0.01	7.33	373.43	9.15	0.66	13.39
9/18/2024 12:10	15.37	22.86	0.01	7.32	372.42	9.16	0.67	13.39
9/18/2024 12:00	15.4	22.64	0.01	7.33	372.49	9.18	0.67	13.48

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9/18/2024 11:50	15.42	22.84	0.01	7.35	371	9.19	0.69	13.39
9/18/2024 11:40	15.41	22.6	0.01	7.33	372.27	9.22	0.68	13.41
9/18/2024 11:30	15.4	22.84	0.01	7.34	371.26	9.25	0.65	13.51
9/18/2024 11:20	15.38	22.46	0.01	7.36	370.63	9.25	0.64	13.51
9/18/2024 11:10	15.32	22.69	0.01	7.36	372.19	9.28	0.66	13.51
9/18/2024 11:00	15.24	22.69	0.01	7.35	375.37	9.27	0.63	13.53
9/18/2024 10:50	15.11	22.74	0.01	7.35	376.58	9.29	0.6	13.53
9/18/2024 10:40	14.87	22.69	0.01	7.35	378.39	9.29	0.55	13.53
9/18/2024 10:30	14.79	22.76	0.01	7.34	380.11	9.31	0.55	13.53
9/18/2024 10:20	14.7	22.69	0.01	7.32	381.63	9.31	0.52	13.56
9/18/2024 10:10	14.66	22.78	0.01	7.32	381.52	9.28	0.51	13.53
9/18/2024 10:00	14.51	22.74	0.01	7.3	383.71	9.27	0.49	13.56
9/18/2024 9:50	14.37	22.84	0.01	7.28	385.87	9.27	0.5	13.44
9/18/2024 9:40	14.27	22.65	0.01	7.28	387.25	9.23	0.48	13.56
9/18/2024 9:30	14.22	22.81	0.01	7.25	390.02	9.23	0.49	13.58
9/18/2024 9:20	14.15	22.86	0.01	7.26	391.69	9.21	0.48	13.56
9/18/2024 9:10	14.13	22.93	0.01	7.24	393.73	9.19	0.5	13.03
9/18/2024 9:00	14.09	22.91	0.01	7.22	396.53	9.15	0.49	12.93
9/18/2024 8:50	14.07	23.01	0.01	7.2	397.89	9.14	0.49	12.88
9/18/2024 8:40	14.04	22.98	0.01	7.18	400.91	9.08	0.49	12.31
9/18/2024 8:30	14.02	23.13	0.01	7.17	402.13	9.06	0.47	12.09
9/18/2024 8:20	14	23.11	0.01	7.18	403.21	9.04	0.48	12.02
9/18/2024 8:10	14	23.14	0.01	7.16	404.42	9.04	0.49	12.07
9/18/2024 8:00	14	23.13	0.01	7.14	407.11	9	0.5	12.05
9/18/2024 7:50	13.99	23.28	0.01	7.15	406.33	8.99	0.5	12
9/18/2024 7:40	13.99	23.2	0.01	7.15	407.5	8.97	0.48	12.07
9/18/2024 7:30	14	23.29	0.01	7.14	408.52	8.95	0.48	12.05
9/18/2024 7:20	14	23.24	0.01	7.11	410.64	8.94	0.5	11.95
9/18/2024 7:10	14.01	23.37	0.01	7.15	407.69	8.93	0.48	11.95
9/18/2024 7:00	14.01	23.09	0.01	7.14	408.96	8.92	0.47	12.05
9/18/2024 6:50	14.01	23.39	0.01	7.14	408.6	8.92	0.48	12.05
9/18/2024 6:40	14.02	23.29	0.01	7.13	409.72	8.92	0.48	12.05
9/18/2024 6:30	14.03	23.42	0.01	7.13	408.43	8.9	0.48	12.05
9/18/2024 6:20	14.03	23.28	0.01	7.14	408.44	8.91	0.48	12.05
9/18/2024 6:10	14.04	23.4	0.01	7.14	407.83	8.91	0.5	12.05
9/18/2024 6:00	14.05	23.38	0.01	7.13	409.23	8.91	0.47	11.95
9/18/2024 5:50	14.06	23.46	0.01	7.12	409.2	8.91	0.49	12.05
9/18/2024 5:40	14.07	23.19	0.01	7.14	409.1	8.9	0.48	12.05
9/18/2024 5:30	14.07	23.41	0.01	7.15	407.44	8.9	0.46	12.05
9/18/2024 5:20	14.08	23.18	0.01	7.13	409.17	8.88	0.47	12.05
9/18/2024 5:10	14.08	23.37	0.01	7.15	407.39	8.88	0.46	11.97
9/18/2024 5:00	14.09	23.44	0.01	7.12	410.06	8.9	0.48	12.07
9/18/2024 4:50	14.11	23.54	0.01	7.14	407.98	8.88	1.92	11.97
9/18/2024 4:40	14.12	23.18	0.01	7.13	409.13	8.89	0.5	11.95
9/18/2024 4:30	14.14	23.42	0.01	7.12	409.46	8.88	0.48	12.09
9/18/2024 4:20	14.16	23.46	0.01	7.12	409.68	8.88	0.51	12.09
9/18/2024 4:10	14.17	23.45	0.01	7.12	409.08	8.86	0.49	12.09

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9/18/2024 4:00	14.18	23.5	0.01	7.13	409.88	8.88	0.5	12.12
9/18/2024 3:50	14.2	23.57	0.01	7.15	408.04	8.88	0.5	12.12
9/18/2024 3:40	14.21	23.45	0.01	7.16	408.33	8.86	0.52	12.05
9/18/2024 3:30	14.22	23.51	0.01	7.14	409.06	8.86	0.48	12.02
9/18/2024 3:20	14.22	23.29	0.01	7.13	410.17	8.85	0.51	12.02
9/18/2024 3:10	14.23	23.63	0.01	7.13	409.32	8.85	0.49	12.02
9/18/2024 3:00	14.23	23.2	0.01	7.14	409.36	8.85	0.48	12.12
9/18/2024 2:50	14.23	23.48	0.01	7.12	409.99	8.85	0.48	12.14
9/18/2024 2:40	14.24	23.45	0.01	7.13	409.74	8.86	0.48	12.07
9/18/2024 2:30	14.24	23.57	0.01	7.13	409.24	8.85	0.49	12.14
9/18/2024 2:20	14.24	23.31	0.01	7.14	409.19	8.85	0.49	12.07
9/18/2024 2:10	14.24	23.58	0.01	7.14	408.53	8.85	0.51	12.07
9/18/2024 2:00	14.25	23.25	0.01	7.13	409.16	8.85	0.5	12.09
9/18/2024 1:50	14.25	23.65	0.01	7.13	408.63	8.85	0.5	12.17
9/18/2024 1:40	14.25	23.55	0.01	7.13	409.64	8.84	0.5	12.19
9/18/2024 1:30	14.26	23.65	0.01	7.14	407.92	8.84	0.51	12.19
9/18/2024 1:20	14.26	23.57	0.01	7.13	409.72	8.84	0.51	12.19
9/18/2024 1:10	14.26	23.64	0.01	7.13	408.86	8.84	0.53	12.19
9/18/2024 1:00	14.26	23.35	0.01	7.13	409.55	8.83	0.54	12.21
9/18/2024 0:50	14.27	23.52	0.01	7.14	408.71	8.83	0.53	12.12
9/18/2024 0:40	14.27	23.59	0.01	7.14	409.31	8.85	0.53	12.21
9/18/2024 0:30	14.28	23.6	0.01	7.12	409.76	8.83	0.54	12.21
9/18/2024 0:20	14.28	23.44	0.01	7.11	411.16	8.84	0.52	12.21
9/18/2024 0:10	14.29	23.59	0.01	7.13	409.27	8.84	0.52	12.21
9/18/2024 0:00	14.29	23.39	0.01	7.13	410.51	8.84	0.51	12.12
9/17/2024 23:50	14.29	23.54	0.01	7.14	409.6	8.84	0.53	12.21
9/17/2024 23:40	14.3	23.59	0.01	7.15	409.48	8.82	0.54	12.21
9/17/2024 23:30	14.3	23.67	0.01	7.12	410.08	8.83	0.53	12.12
9/17/2024 23:20	14.3	23.25	0.01	7.14	409.45	8.81	0.53	12.12
9/17/2024 23:10	14.31	23.63	0.01	7.14	409.31	8.83	0.53	12.24
9/17/2024 23:00	14.31	23.53	0.01	7.13	410.34	8.82	0.53	12.24
9/17/2024 22:50	14.32	23.65	0.01	7.14	409.24	8.84	0.55	12.24
9/17/2024 22:40	14.32	23.53	0.01	7.13	410.54	8.83	0.55	12.24
9/17/2024 22:30	14.33	23.64	0.01	7.13	409.68	8.8	0.52	12.24
9/17/2024 22:20	14.33	23.62	0.01	7.14	409.65	8.82	0.54	12.24
9/17/2024 22:10	14.33	23.64	0.01	7.13	409.18	8.8	0.54	12.14
9/17/2024 22:00	14.34	23.37	0.01	7.13	409.62	8.81	0.56	12.14
9/17/2024 21:50	14.34	23.69	0.01	7.14	408.55	8.79	0.53	12.26
9/17/2024 21:40	14.35	23.54	0.01	7.13	409.8	8.8	0.56	12.26
9/17/2024 21:30	14.35	23.63	0.01	7.15	408.35	8.8	0.56	12.26
9/17/2024 21:20	14.36	23.46	0.01	7.15	408.91	8.8	0.57	12.17
9/17/2024 21:10	14.37	23.72	0.01	7.13	408.49	8.8	0.58	12.26
9/17/2024 21:00	14.37	23.56	0.01	7.13	409.33	8.8	0.56	12.19
9/17/2024 20:50	14.38	23.73	0.01	7.15	407.68	8.8	0.57	12.26
9/17/2024 20:40	14.38	23.59	0.01	7.15	408.3	8.79	0.54	12.17
9/17/2024 20:30	14.39	23.72	0.01	7.16	406.6	8.8	0.59	12.17
9/17/2024 20:20	14.4	23.61	0.01	7.16	406.82	8.8	0.57	12.19

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9/17/2024 20:10	14.41	23.73	0.01	7.13	407.31	8.8	0.57	12.29
9/17/2024 20:00	14.41	23.29	0.01	7.19	404.57	8.8	0.56	12.29
9/17/2024 19:50	14.42	23.55	0.01	7.16	405.44	8.79	0.55	12.29
9/17/2024 19:40	14.43	23.52	0.01	7.16	405.96	8.79	0.55	12.29
9/17/2024 19:30	14.44	23.66	0.01	7.15	405.47	8.81	0.56	12.29
9/17/2024 19:20	14.45	23.11	0.01	7.16	404.85	8.81	0.58	12.31
9/17/2024 19:10	14.46	23.58	0.01	7.17	402.98	8.81	0.57	12.31
9/17/2024 19:00	14.47	23.47	0.01	7.16	404.1	8.85	0.58	12.31
9/17/2024 18:50	14.49	23.5	0.01	7.18	401.66	8.84	0.57	12.33
9/17/2024 18:40	14.49	23.08	0.01	7.23	399.84	8.87	0.59	12.29
9/17/2024 18:30	14.5	23.26	0.01	7.2	400.2	8.89	0.61	12.29
9/17/2024 18:20	14.51	23.04	0.01	7.26	396.84	8.9	0.6	12.31
9/17/2024 18:10	14.52	23.15	0.01	7.22	398.78	8.93	0.6	12.55
9/17/2024 18:00	14.53	23.18	0.01	7.22	399.18	8.95	0.61	12.57
9/17/2024 17:50	14.54	23.12	0.01	7.23	397.16	8.96	0.59	12.57
9/17/2024 17:40	14.54	23.01	0.01	7.24	397.01	8.97	0.6	12.62
9/17/2024 17:30	14.54	22.98	0.01	7.24	396.56	8.98	0.64	12.74
9/17/2024 17:20	14.54	22.69	0.01	7.23	396.93	9	0.61	12.69
9/17/2024 17:10	14.55	22.92	0.01	7.24	395.69	9	0.61	12.62
9/17/2024 17:00	14.55	22.62	0.01	7.25	395.34	9.02	0.63	12.57
9/17/2024 16:50	14.56	22.85	0.01	7.26	393.72	9.04	0.62	12.81
9/17/2024 16:40	14.55	22.83	0.01	7.28	392.71	9.06	0.63	13.44
9/17/2024 16:30	14.55	22.96	0.01	7.28	392.06	9.07	0.62	13.63
9/17/2024 16:20	14.54	22.48	0.01	7.3	391.28	9.06	0.64	13.65
9/17/2024 16:10	14.54	22.79	0.01	7.27	392.4	9.08	0.63	13.58
9/17/2024 16:00	14.53	22.6	0.01	7.28	392.48	9.09	0.61	13.6
9/17/2024 15:50	14.53	22.81	0.01	7.29	391.07	9.11	0.61	13.6
9/17/2024 15:40	14.52	22.81	0.01	7.31	390.22	9.13	0.64	13.6
9/17/2024 15:30	14.51	22.77	0.01	7.29	391.39	9.13	0.63	13.6
9/17/2024 15:20	14.48	22.77	0.01	7.31	391.14	9.14	0.6	13.6
9/17/2024 15:10	14.45	22.82	0.01	7.29	391.21	9.11	0.62	13.44
9/17/2024 15:00	14.42	22.79	0.01	7.27	393.71	9.09	0.64	13.63
9/17/2024 14:50	14.39	22.87	0.01	7.26	393.22	9.06	0.62	13.63
9/17/2024 14:40	14.37	22.81	0.01	7.27	393.71	9.07	0.63	13.58
9/17/2024 14:30	14.37	22.82	0.01	7.29	391.16	9.11	0.61	12.6
9/17/2024 14:20	14.37	22.73	0.01	7.29	391.37	9.11	0.62	12.72
9/17/2024 14:10	14.37	22.74	0.01	7.3	389.88	9.15	0.63	13.39
9/17/2024 14:00	14.35	22.41	0.01	7.28	391.37	9.17	0.63	13.51
9/17/2024 13:50	14.33	22.72	0.01	7.29	390.19	9.16	0.6	13.46
9/17/2024 13:40	14.31	22.68	0.01	7.28	391.58	9.2	0.62	13.34
9/17/2024 13:30	14.29	22.75	0.01	7.29	389.89	9.21	0.61	13.29
9/17/2024 13:20	14.27	22.6	0.01	7.33	387.93	9.21	0.64	13.51
9/17/2024 13:10	14.26	22.65	0.01	7.31	387.84	9.22	0.61	13.32
9/17/2024 13:00	14.27	22.57	0.01	7.33	386.74	9.24	0.63	13.6
9/17/2024 12:50	14.25	22.66	0.01	7.33	387.06	9.27	0.59	13.6
9/17/2024 12:40	14.22	22.62	0.01	7.35	388.84	9.26	0.62	13.51
9/17/2024 12:30	14.19	22.7	0.01	7.33	387.09	9.3	0.6	13.6

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9/17/2024 12:20	14.16	22.54	0.01	7.33	388.13	9.27	0.58	13.6
9/17/2024 12:10	14.11	22.75	0.01	7.3	389.26	9.29	0.57	13.63
9/17/2024 12:00	14.06	22.56	0.01	7.3	390.91	9.29	0.58	13.63
9/17/2024 11:50	14.01	22.74	0.01	7.3	390.41	9.32	0.55	13.63
9/17/2024 11:40	13.95	22.53	0.01	7.29	393.04	9.29	0.56	13.41
9/17/2024 11:30	13.92	22.69	0.01	7.32	392.56	9.3	0.67	13.63
9/17/2024 11:20	13.86	22.45	0.01	7.3	396.22	9.32	0.64	13.65
9/17/2024 11:10	14.33	0	0	8.27	318.61	9.23	0.76	13.63
9/17/2024 11:00	13.75	22.84	0.01	7.27	419.4	9.35	0.4	13.46
9/17/2024 10:50	13.71	22.66	0.01	7.26	422.29	9.32	0.39	13.29
9/17/2024 10:40	13.67	22.73	0.01	7.25	421.21	9.31	0.49	13.1
9/17/2024 10:30	13.64	22.8	0.01	7.28	421.08	9.3	0.4	13
9/17/2024 10:20	13.61	22.82	0.01	7.24	423.12	9.3	0.42	13.12
9/17/2024 10:10	13.58	22.87	0.01	7.23	424.08	9.28	0.39	12.84
9/17/2024 10:00	13.55	22.9	0.01	7.21	425.17	9.27	0.4	12.96
9/17/2024 9:50	13.53	22.96	0.01	7.24	424.91	9.22	0.39	12.93
9/17/2024 9:40	13.51	23.03	0.01	7.19	427.86	9.23	0.4	12.72
9/17/2024 9:30	13.5	23.03	0.01	7.2	427.95	9.17	0.38	12.62
9/17/2024 9:20	13.49	23.02	0.01	7.17	429.39	9.17	0.4	12.6
9/17/2024 9:10	13.48	23.09	0.01	7.17	430.06	9.18	0.39	12.65
9/17/2024 9:00	13.48	23.13	0.01	7.18	429.04	9.17	0.41	12.67
9/17/2024 8:50	13.47	23.1	0.01	7.19	429.85	9.16	0.38	12.69
9/17/2024 8:40	13.47	23.08	0.01	7.18	430.16	9.18	0.38	12.74
9/17/2024 8:30	13.46	22.85	0.01	7.2	429.96	9.17	0.38	12.72
9/17/2024 8:20	13.45	23.07	0.01	7.16	432.22	9.17	0.41	12.62
9/17/2024 8:10	13.44	22.95	0.01	7.17	432.56	9.13	0.4	12.48
9/17/2024 8:00	13.43	23.22	0.01	7.15	433.3	9.13	0.39	12.29
9/17/2024 7:50	13.42	23.17	0.01	7.16	433.64	9.09	0.4	12.19
9/17/2024 7:40	13.41	23.24	0.01	7.2	430.81	9.06	0.42	12.21
9/17/2024 7:30	13.4	23.28	0.01	7.13	434.98	9.03	0.39	12.14
9/17/2024 7:20	13.4	23.37	0.01	7.13	434.32	9.02	0.41	12.09
9/17/2024 7:10	13.4	23.09	0.01	7.14	434.3	8.99	0.4	12.07
9/17/2024 7:00	13.42	23.28	0.01	7.13	434.52	8.99	0.41	12.05
9/17/2024 6:50	13.43	23.3	0.01	7.11	435.69	8.98	0.37	12.05
9/17/2024 6:40	13.45	23.41	0.01	7.12	434.05	9	0.39	12.02
9/17/2024 6:30	13.46	23.28	0.01	7.15	433.06	8.96	0.39	12.05
9/17/2024 6:20	13.48	23.35	0.01	7.12	434.54	8.96	0.41	12.05
9/17/2024 6:10	13.49	23.28	0.01	7.13	434.49	8.96	0.39	12.07
9/17/2024 6:00	13.51	23.36	0.01	7.12	434.68	8.94	0.39	12.07
9/17/2024 5:50	13.53	23.33	0.01	7.13	434.58	8.94	0.42	12.07
9/17/2024 5:40	13.54	23.37	0.01	7.12	434.97	8.95	0.41	11.97
9/17/2024 5:30	13.56	23.38	0.01	7.12	434.84	8.93	0.41	12
9/17/2024 5:20	13.57	23.43	0.01	7.12	434.09	8.95	0.4	12.09
9/17/2024 5:10	13.59	23.34	0.01	7.16	432.61	8.91	0.41	12.09
9/17/2024 5:00	13.6	23.47	0.01	7.12	434.07	8.91	0.4	12.09
9/17/2024 4:50	13.61	23.38	0.01	7.12	434.46	8.9	0.42	12.09
9/17/2024 4:40	13.63	23.48	0.01	7.12	433.69	8.93	0.4	12.09

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9/17/2024 4:30	13.65	23.21	0.01	7.14	433.07	8.91	0.42	11.97
9/17/2024 4:20	13.67	23.54	0.01	7.12	433.69	8.92	0.4	12
9/17/2024 4:10	13.68	23.49	0.01	7.14	432.88	8.91	0.41	12.12
9/17/2024 4:00	13.7	23.44	0.01	7.12	433.67	8.91	0.42	12.12
9/17/2024 3:50	13.72	23.39	0.01	7.14	432.93	8.92	0.44	12
9/17/2024 3:40	13.74	23.52	0.01	7.13	432.83	8.91	0.42	12.05
9/17/2024 3:30	13.77	23.52	0.01	7.13	432.95	8.91	0.39	12.14
9/17/2024 3:20	13.79	23.63	0.01	7.13	431.89	8.91	0.42	12.14
9/17/2024 3:10	13.82	23.53	0.01	7.12	433.24	8.88	0.42	12.05
9/17/2024 3:00	13.85	23.54	0.01	7.12	433	8.9	0.42	12.05
9/17/2024 2:50	13.86	23.44	0.01	7.12	433.37	8.87	0.42	12.05
9/17/2024 2:40	13.88	23.62	0.01	7.12	432.09	8.88	1.37	12.17
9/17/2024 2:30	13.91	23.5	0.01	7.12	433.14	8.85	0.41	12.17
9/17/2024 2:20	13.93	23.64	0.01	7.12	431.94	8.87	0.42	12.17
9/17/2024 2:10	13.95	23.63	0.01	7.14	431.18	8.85	0.44	12.14
9/17/2024 2:00	13.98	23.62	0.01	7.12	431.93	8.84	0.44	12.07
9/17/2024 1:50	14	23.64	0.01	7.13	431.87	8.84	0.4	12.17
9/17/2024 1:40	14.02	23.56	0.01	7.11	431.76	8.84	0.44	12.17
9/17/2024 1:30	14.05	23.66	0.01	7.14	430.95	8.84	0.43	12.07
9/17/2024 1:20	14.07	23.68	0.01	7.12	431.63	8.84	0.44	12.17
9/17/2024 1:10	14.09	23.69	0.01	7.13	431.31	8.79	0.42	12.19
9/17/2024 1:00	14.12	23.79	0.01	7.12	430.95	8.8	0.43	12.19
9/17/2024 0:50	14.14	23.69	0.01	7.13	431.06	8.79	0.43	12.19
9/17/2024 0:40	14.16	23.81	0.01	7.12	430.96	8.81	0.43	12.19
9/17/2024 0:30	14.18	23.74	0.01	7.12	431.15	8.81	0.42	12.19
9/17/2024 0:20	14.21	23.71	0.01	7.1	430.65	8.8	0.44	12.19
9/17/2024 0:10	14.23	23.67	0.01	7.12	431.38	8.79	0.44	12.19
9/17/2024 0:00	14.25	23.84	0.01	7.11	430.89	8.79	0.43	12.21
9/16/2024 23:50	14.27	23.66	0.01	7.11	431.21	8.79	0.44	12.21
9/16/2024 23:40	14.29	23.95	0.01	7.12	429.38	8.77	0.42	12.21
9/16/2024 23:30	14.32	23.64	0.01	7.14	428.55	8.77	0.45	12.12
9/16/2024 23:20	14.33	23.82	0.01	7.11	429.88	8.78	0.42	12.12
9/16/2024 23:10	14.35	23.94	0.01	7.16	428.52	8.75	0.42	12.12
9/16/2024 23:00	14.37	23.87	0.01	7.12	430.37	8.75	0.43	12.12
9/16/2024 22:50	14.4	23.83	0.01	7.1	431.48	8.73	0.43	12.19
9/16/2024 22:40	14.42	23.95	0.01	7.12	429.83	8.74	0.46	12.12
9/16/2024 22:30	14.44	24.04	0.01	7.13	429.75	8.73	0.44	12.12
9/16/2024 22:20	14.46	23.99	0.01	7.12	429.27	8.72	0.46	12.21
9/16/2024 22:10	14.49	23.87	0.01	7.12	430.13	8.71	0.47	12.14
9/16/2024 22:00	14.51	23.98	0.01	7.12	429.16	8.72	0.47	12.12
9/16/2024 21:50	14.53	23.92	0.01	7.15	427.81	8.7	0.46	12.21
9/16/2024 21:40	14.55	24	0.01	7.11	429.3	8.72	0.47	12.12
9/16/2024 21:30	14.57	23.94	0.01	7.15	427.95	8.69	0.47	12.24
9/16/2024 21:20	14.59	24	0.01	7.12	428.65	8.7	0.48	12.24
9/16/2024 21:10	14.61	23.99	0.01	7.14	427.86	8.68	0.45	12.26
9/16/2024 21:00	14.63	23.94	0.01	7.12	428.34	8.7	0.46	12.26
9/16/2024 20:50	14.65	23.89	0.01	7.13	428.43	8.68	0.47	12.24

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9/16/2024 20:40	14.67	23.99	0.01	7.13	427.63	8.68	0.44	12.24
9/16/2024 20:30	14.69	23.62	0.01	7.15	426.33	8.68	0.45	12.17
9/16/2024 20:20	14.71	23.92	0.01	7.12	427.48	8.68	0.45	12.26
9/16/2024 20:10	14.72	23.95	0.01	7.15	426.04	8.68	0.46	12.26
9/16/2024 20:00	14.74	23.99	0.01	7.13	426.37	8.67	0.47	12.24
9/16/2024 19:50	14.76	23.91	0.01	7.12	426.84	8.69	0.45	12.17
9/16/2024 19:40	14.78	23.91	0.01	7.13	425.61	8.67	0.48	12.19
9/16/2024 19:30	14.8	23.53	0.01	7.13	426.49	8.66	0.47	12.29
9/16/2024 19:20	14.82	23.96	0.01	7.14	424.6	8.68	0.46	12.26
9/16/2024 19:10	14.84	23.94	0.01	7.13	425.17	8.69	0.47	12.19
9/16/2024 19:00	14.86	23.86	0.01	7.13	424.19	8.69	0.47	12.19
9/16/2024 18:50	14.88	23.9	0.01	7.19	421.24	8.69	0.47	12.33
9/16/2024 18:40	14.89	23.9	0.01	7.15	422.39	8.7	0.49	12.36
9/16/2024 18:30	14.91	23.91	0.01	7.15	422.86	8.69	0.47	12.36
9/16/2024 18:20	14.93	23.85	0.01	7.14	421.9	8.71	0.45	12.31
9/16/2024 18:10	14.95	23.41	0.01	7.15	422.08	8.72	0.49	12.33
9/16/2024 18:00	14.96	23.73	0.01	7.15	420.49	8.72	0.47	12.26
9/16/2024 17:50	14.97	23.49	0.01	7.16	420.32	8.73	0.48	12.38
9/16/2024 17:40	14.98	23.64	0.01	7.17	419.43	8.74	0.48	12.48
9/16/2024 17:30	14.99	23.47	0.01	7.22	416.99	8.76	0.47	12.55
9/16/2024 17:20	14.99	23.51	0.01	7.18	418.08	8.78	0.48	12.57
9/16/2024 17:10	14.99	23.33	0.01	7.17	418.93	8.78	0.48	12.57
9/16/2024 17:00	14.99	23.52	0.01	7.19	416.75	8.78	0.44	12.6
9/16/2024 16:50	14.99	23.54	0.01	7.21	416.14	8.79	0.46	12.55
9/16/2024 16:40	15	23.55	0.01	7.2	415.3	8.81	0.47	12.57
9/16/2024 16:30	15.01	23.49	0.01	7.22	414.01	8.83	0.46	12.6
9/16/2024 16:20	15.02	23.48	0.01	7.21	413.27	8.84	0.46	12.5
9/16/2024 16:10	15.04	23.41	0.01	7.22	412.87	8.86	0.49	12.5
9/16/2024 16:00	15.06	23.47	0.01	7.23	410.94	8.91	0.49	12.74
9/16/2024 15:50	15.07	23.33	0.01	7.25	409.71	8.92	0.45	12.69
9/16/2024 15:40	15.08	23.39	0.01	7.25	408.79	8.92	0.5	12.81
9/16/2024 15:30	15.09	23.27	0.01	7.27	407.71	8.95	0.49	12.69
9/16/2024 15:20	15.1	23.31	0.01	7.26	406.68	8.99	0.48	13.1
9/16/2024 15:10	15.08	23.21	0.01	7.28	405.83	9.02	0.48	13.1
9/16/2024 15:00	15.07	23.2	0.01	7.26	405.45	9.03	0.47	13.46
9/16/2024 14:50	15.04	23.19	0.01	7.27	405.03	9.06	0.68	13.46
9/16/2024 14:40	15	23.28	0.01	7.28	403.42	9.05	0.47	13.44
9/16/2024 14:30	14.96	23.34	0.01	7.28	403.25	9.07	0.46	13.41
9/16/2024 14:20	14.91	23.24	0.01	7.26	403.2	9.11	0.47	13.32
9/16/2024 14:10	14.86	23.23	0.01	7.34	398.63	9.09	0.47	13.32
9/16/2024 14:00	14.88	23.16	0.01	7.28	400.61	9.11	0.47	13.29
9/16/2024 13:50	14.89	23.24	0.01	7.29	399.98	9.14	0.47	13.32
9/16/2024 13:40	14.89	23.26	0.01	7.28	398.83	9.14	0.47	13.41
9/16/2024 13:30	14.84	23.27	0.01	7.28	399.97	9.16	0.49	13.44
9/16/2024 13:20	14.82	23.37	0.01	7.27	399.28	9.18	0.47	13.44
9/16/2024 13:10	14.75	23.06	0.01	7.27	400.52	9.19	0.47	13.34
9/16/2024 13:00	14.71	23.24	0.01	7.27	399.8	9.19	0.46	13.39

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9/16/2024 12:50	14.67	23.23	0.01	7.28	399.64	9.21	0.47	13.32
9/16/2024 12:40	14.63	23.38	0.01	7.27	399.07	9.22	0.45	13.46
9/16/2024 12:30	14.59	23.34	0.01	7.26	400.49	9.24	0.44	13.51
9/16/2024 12:20	14.6	23.42	0.01	7.28	397.76	9.24	0.44	13.41
9/16/2024 12:10	14.59	23.37	0.01	7.29	397.43	9.26	0.46	13.51
9/16/2024 12:00	14.62	23.35	0.01	7.29	397.13	9.28	0.43	13.51
9/16/2024 11:50	14.59	23.37	0.01	7.31	396.55	9.29	0.5	13.53
9/16/2024 11:40	14.6	23.28	0.01	7.3	395.99	9.32	2.46	13.51
9/16/2024 11:30	14.59	23.32	0.01	7.3	395.5	9.35	0.46	13.53
9/16/2024 11:20	14.59	23.27	0.01	7.29	385.34	9.36	0.42	13.44
9/16/2024 11:20	14.59	23.27	0.01	7.29	385.34	9.36	0.42	13.44
9/16/2024 11:10	14.51	23.25	0.01	7.3	398.81	9.35	0.47	13.56
9/16/2024 11:00	14.49	23.37	0.01	7.31	388.38	9.38	0.44	13.56
9/16/2024 10:50	14.33	23.03	0.01	7.32	404.32	9.42	0.42	13.56
9/16/2024 10:40	14.2	23.33	0.01	7.28	408.91	9.4	0.42	13.58
9/16/2024 10:30	14.05	23.18	0.01	7.3	410.48	9.42	0.42	13.58
9/16/2024 10:20	13.88	23.29	0.01	7.26	413.19	9.41	0.42	13.6
9/16/2024 10:10	13.7	23.14	0.01	7.25	415.57	9.4	0.41	13.48
9/16/2024 10:00	13.56	23.41	0.01	7.23	417.49	9.39	0.4	13.6
9/16/2024 9:50	13.41	23.25	0.01	7.22	419.52	9.39	0.39	13.63
9/16/2024 9:40	13.35	23.44	0.01	7.21	420.27	9.32	0.38	13.63
9/16/2024 9:30	13.31	23.15	0.01	7.21	421.77	9.35	0.36	13.63
9/16/2024 9:20	13.3	23.45	0.01	7.19	423.32	9.33	0.41	13.34
9/16/2024 9:10	13.25	23.42	0.01	7.22	424.36	9.31	0.39	13.6
9/16/2024 9:00	13.2	23.49	0.01	7.18	427.05	9.28	0.38	13.63
9/16/2024 8:50	13.17	23.31	0.01	7.19	427.86	9.26	0.37	12.62
9/16/2024 8:40	13.13	23.58	0.01	7.18	428.62	9.27	0.36	12.55
9/16/2024 8:30	13.12	23.49	0.01	7.16	430.64	9.22	0.37	12.67
9/16/2024 8:20	13.11	23.65	0.01	7.17	429.73	9.21	0.4	12.62
9/16/2024 8:10	13.11	23.42	0.01	7.17	430.47	9.2	0.37	12.6
9/16/2024 8:00	13.11	23.64	0.01	7.14	431.51	9.18	0.45	12.5
9/16/2024 7:50	13.11	23.63	0.01	7.13	432.79	9.18	0.38	12.29
9/16/2024 7:40	13.12	23.59	0.01	7.14	431.97	9.16	0.38	12.05
9/16/2024 7:30	13.14	23.6	0.01	7.16	431.34	9.13	0.38	11.95
9/16/2024 7:20	13.15	23.79	0.01	7.14	431.31	9.13	0.39	11.97
9/16/2024 7:10	13.17	23.74	0.01	7.13	432.51	9.11	0.37	12.07
9/16/2024 7:00	13.19	23.85	0.01	7.14	430.7	9.13	0.38	12.07
9/16/2024 6:50	13.21	23.78	0.01	7.13	432.52	9.09	0.39	12.05
9/16/2024 6:40	13.23	23.9	0.01	7.13	431.55	9.09	0.4	11.95
9/16/2024 6:30	13.25	23.87	0.01	7.14	431.48	9.08	0.39	11.97
9/16/2024 6:20	13.27	23.77	0.01	7.12	431.89	9.09	0.39	12.07
9/16/2024 6:20	13.27	23.77	0.01	7.12	431.89	9.09	0.39	12.07
9/16/2024 6:10	13.29	23.73	0.01	7.13	432.16	9.06	0.39	12.07
9/16/2024 6:00	13.3	23.91	0.01	7.12	431.94	9.07	0.38	12
9/16/2024 5:50	13.32	23.62	0.01	7.14	431.77	9.07	0.38	12.07
9/16/2024 5:40	13.35	23.84	0.01	7.13	431.31	9.06	0.41	12.07
9/16/2024 5:30	13.38	23.86	0.01	7.13	431.86	9.07	0.4	12.07

EGP-STU-003 (WLNG US) 2024-09-16 to 2024-09-22

9/16/2024 5:20	13.41	23.87	0.01	7.13	431.46	9.06	0.39	12.07
9/16/2024 5:10	13.43	23.81	0.01	7.13	431.94	9.06	0.4	12.12
9/16/2024 5:00	13.45	23.97	0.01	7.13	431.14	9.06	0.42	12.12
9/16/2024 4:50	13.47	24.05	0.01	7.13	432.04	9.04	0.4	12.12
9/16/2024 4:40	13.48	24.03	0.01	7.12	431.42	9.04	0.41	12.12
9/16/2024 4:30	13.5	23.95	0.01	7.11	432.66	9.04	0.4	12.12
9/16/2024 4:20	13.51	24.09	0.01	7.13	430.76	9.03	0.41	12.12
9/16/2024 4:10	13.53	23.74	0.01	7.14	431.26	9.01	0.38	12.14
9/16/2024 4:00	13.55	24.05	0.01	7.13	431.1	9.03	0.41	12.12
9/16/2024 3:50	13.57	23.73	0.01	7.13	431.61	9.01	0.41	12.05
9/16/2024 3:40	13.59	24.19	0.01	7.14	430.13	9.02	0.39	12.02
9/16/2024 3:30	13.61	24.09	0.01	7.13	431.09	9.01	0.39	12.14
9/16/2024 3:20	13.63	24.12	0.01	7.12	431.07	8.98	0.41	12.07
9/16/2024 3:10	13.66	24.18	0.01	7.16	429.75	8.98	0.41	12.14
9/16/2024 3:00	13.68	24.25	0.01	7.13	430.05	8.99	0.4	12.17
9/16/2024 2:50	13.7	24	0.01	7.12	431.34	8.97	0.41	12.14
9/16/2024 2:40	13.73	24.24	0.01	7.12	430.47	8.97	0.42	12.05
9/16/2024 2:30	13.75	23.89	0.01	7.18	427.76	8.97	0.4	12.05
9/16/2024 2:20	13.78	24.33	0.01	7.13	429.79	8.95	0.43	12.17
9/16/2024 2:10	13.81	24.3	0.01	7.13	429.97	8.96	0.43	12.17
9/16/2024 2:00	13.83	24.42	0.01	7.13	429.28	8.94	0.39	12.17
9/16/2024 1:50	13.85	24.41	0.01	7.12	430.44	8.95	0.41	12.17
9/16/2024 1:40	13.87	24.31	0.01	7.12	429.51	8.95	0.4	12.17
9/16/2024 1:30	13.9	24.07	0.01	7.17	427.89	8.94	0.41	12.09
9/16/2024 1:20	13.92	24.48	0.01	7.13	429.19	8.91	0.44	12.17
9/16/2024 1:10	13.95	24.39	0.01	7.16	427.94	8.9	0.43	12.17
9/16/2024 1:00	13.97	24.52	0.01	7.13	428.19	8.92	0.41	12.19
9/16/2024 0:50	14.01	24.45	0.01	7.14	428.59	8.92	0.43	12.09
9/16/2024 0:40	14.04	24.43	0.01	7.13	428.14	8.88	0.42	12.09
9/16/2024 0:30	14.06	24.48	0.01	7.13	428.93	8.89	0.43	12.19
9/16/2024 0:20	14.08	24.59	0.01	7.14	427.53	8.88	0.44	12.19
9/16/2024 0:10	14.11	24.39	0.01	7.14	427.96	8.87	0.43	12.17
9/16/2024 0:00	14.14	24.6	0.01	7.13	427.39	8.87	0.49	12.09

EGP-STU-004 (WLNG DS) 2024-09-19 to 2024-09-22

Received	Temperature C	Specific	Salinity	pH	pH	ORP mV	Dissolved	Turbidity	TL Battery
		Conductivity					Oxygen		
		ÂµS/cm	PSU				Concentration mg/L	NTU	V
9/22/2024 23:50	14.05	163.27	0.08	8.01	8.01	403.99	9.2	1.76	12.21
9/22/2024 23:40	14.05	162.71	0.08	8	8	403.75	9.25	1.24	12.21
9/22/2024 23:30	14.04	162.41	0.08	8.01	8.01	403	9.21	1.15	12.21
9/22/2024 23:20	14.04	161.72	0.08	8.01	8.01	402.37	9.21	0.55	12.14
9/22/2024 23:10	14.04	161.07	0.08	8.03	8.03	402.19	9.22	3.18	12.12
9/22/2024 23:00	14.03	159.87	0.08	8.02	8.02	402.17	9.21	1.78	12.24
9/22/2024 22:50	14.04	161.01	0.08	8.02	8.02	402.5	9.23	1.46	12.14
9/22/2024 22:40	14.04	161.05	0.08	8	8	402.33	9.26	3.01	12.17
9/22/2024 22:30	14.04	161.6	0.08	8.03	8.03	401.63	9.17	1.91	12.17
9/22/2024 22:20	14.06	162.48	0.08	8.01	8.01	402.52	9.17	0.33	12.26
9/22/2024 22:10	14.1	164.82	0.08	8.01	8.01	401.78	8.98	1.69	12.26
9/22/2024 22:00	14.28	200.89	0.1	7.93	7.93	408.54	8.68	9.03	12.24
9/22/2024 21:50	14.3	219.58	0.1	7.9	7.9	409.98	8.78	15.07	12.24
9/22/2024 21:40	14.21	200.59	0.1	7.95	7.95	408.85	8.91	10.63	12.24
9/22/2024 21:40	14.21	200.59	0.1	7.95	7.95	408.85	8.91	10.63	12.24
9/22/2024 21:30	14.12	189.14	0.09	7.92	7.92	405.92	9.22	12.98	12.24
9/22/2024 21:20	14.01	164.85	0.08	8.02	8.02	404.92	9.25	2.2	12.29
9/22/2024 21:10	14.01	164.46	0.08	8.03	8.03	404.97	9.21	0.96	12.29
9/22/2024 21:00	14	163.63	0.08	8.03	8.03	404.62	9.21	0.39	12.31
9/22/2024 20:50	14	164.37	0.08	8.04	8.04	404.81	9.21	1.01	12.31
9/22/2024 20:40	13.99	165.26	0.08	8.02	8.02	404.84	9.19	0.89	12.31
9/22/2024 20:30	14	166.18	0.08	8.03	8.03	405.1	9.22	2.04	12.31
9/22/2024 20:20	13.99	165.99	0.08	8.01	8.01	405.05	9.23	0.58	12.31
9/22/2024 20:10	13.99	165.72	0.08	8.04	8.04	404.54	9.21	0.41	12.31
9/22/2024 20:00	13.99	165.52	0.08	8.02	8.02	404.81	9.21	0.39	12.33
9/22/2024 19:50	14	166.03	0.08	8.03	8.03	405.28	9.21	0.47	12.24
9/22/2024 19:40	13.99	165.89	0.08	8.01	8.01	405.16	9.27	0.32	12.31
9/22/2024 19:30	13.99	166.48	0.08	8.04	8.04	404.44	9.21	1.22	12.31
9/22/2024 19:20	13.99	166.06	0.08	8.02	8.02	404.51	9.24	0.6	12.21
9/22/2024 19:10	13.99	165.45	0.08	8.04	8.04	404.22	9.2	0.25	12.21
9/22/2024 19:00	13.99	164.96	0.08	8.03	8.03	404.22	9.22	0	12.21
9/22/2024 18:50	13.99	165.23	0.08	8.05	8.05	404.07	9.19	0.3	12.38
9/22/2024 18:40	13.99	165.27	0.08	8.02	8.02	404.1	9.22	0.29	12.41
9/22/2024 18:30	13.99	165.22	0.08	8.04	8.04	404.17	9.22	1.14	12.43
9/22/2024 18:20	13.99	164.16	0.08	8.02	8.02	404.03	9.27	0.3	12.43
9/22/2024 18:10	13.99	163.56	0.08	8.05	8.05	403.46	9.2	0.95	12.43
9/22/2024 18:00	13.99	163.55	0.08	8.03	8.03	402.95	9.22	0.24	12.43
9/22/2024 17:50	13.99	163.43	0.08	8.03	8.03	403.41	9.21	3	12.36
9/22/2024 17:40	13.99	162.78	0.08	8.02	8.02	403.01	9.19	0.33	12.48
9/22/2024 17:30	14	162.66	0.08	8.03	8.03	403.18	9.17	0.05	12.55
9/22/2024 17:20	14	161.57	0.08	8.01	8.01	403.2	9.2	0.03	12.76

EGP-STU-004 (WLNG DS) 2024-09-19 to 2024-09-22

9/22/2024 17:10	14	161.1	0.08	8.04	402.75	9.2	0.54	12.79
9/22/2024 17:00	14	160.66	0.08	8.01	403.25	9.22	0.62	12.84
9/22/2024 16:50	14	160.39	0.08	8.02	402.6	9.22	0.87	12.79
9/22/2024 16:40	13.99	158.71	0.07	8.02	402.1	9.24	0.96	12.74
9/22/2024 16:30	13.99	158.42	0.07	8.03	402.07	9.23	0.71	12.67
9/22/2024 16:20	13.99	157.81	0.07	8.01	402.66	9.23	5.37	12.62
9/22/2024 16:10	13.99	157.7	0.07	8.04	401.63	9.22	1.17	12.67
9/22/2024 16:00	13.98	157.08	0.07	8.03	401.19	9.26	1.06	12.81
9/22/2024 15:50	13.99	156.74	0.07	8.04	401.38	9.24	1.26	12.81
9/22/2024 15:40	13.99	156.02	0.07	8.03	401.01	9.27	0.2	12.81
9/22/2024 15:30	13.99	156.19	0.07	8.06	400.1	9.28	0.42	12.76
9/22/2024 15:20	13.99	155.87	0.07	8.03	400.03	9.29	0.35	12.91
9/22/2024 15:10	13.99	156.68	0.07	8.04	400.04	9.27	2.24	12.93
9/22/2024 15:00	13.99	155.43	0.07	8.03	399.31	9.28	0.4	13
9/22/2024 14:50	14	155.33	0.07	8.04	399.46	9.25	2.3	13.05
9/22/2024 14:40	14	154.96	0.07	8.02	399.38	9.29	0.5	13.03
9/22/2024 14:30	13.99	155.67	0.07	8.03	399.46	9.24	0.77	13
9/22/2024 14:20	14	154.91	0.07	8.01	399.66	9.25	0.96	12.98
9/22/2024 14:10	14.02	155.57	0.07	8.04	397.6	9.2	6.07	12.91
9/22/2024 14:00	14.05	157.98	0.07	8.01	398.1	9.29	3.63	12.81
9/22/2024 13:50	14.14	156.76	0.07	8.05	398.33	9.08	0.61	12.81
9/22/2024 13:40	14.35	179.1	0.08	7.94	404.33	8.51	1.75	12.96
9/22/2024 13:30	14.51	228.98	0.11	7.89	405.7	8.46	4.89	12.93
9/22/2024 13:20	14.47	231.39	0.11	7.88	406.37	8.5	8.87	12.93
9/22/2024 13:10	14.43	228.07	0.11	7.88	408.58	8.53	8.54	12.96
9/22/2024 13:00	14.37	228.78	0.11	7.88	409.96	8.6	3.65	12.91
9/22/2024 12:50	14.3	225.87	0.11	7.88	410.94	8.73	4.57	12.86
9/22/2024 12:50	14.3	225.87	0.11	7.88	410.94	8.73	4.57	12.86
9/22/2024 12:40	14.2	211.64	0.1	7.87	410.99	9.01	6.65	12.84
9/22/2024 12:30	14.01	183.13	0.09	7.97	405.5	9.27	7.63	12.79
9/22/2024 12:20	13.87	159.18	0.08	8.03	402.89	9.33	2.53	12.84
9/22/2024 12:10	13.84	155.46	0.07	8.05	402.93	9.33	3.43	12.81
9/22/2024 12:00	13.82	154.54	0.07	8.04	402.51	9.31	2.23	12.72
9/22/2024 11:50	13.82	155.06	0.07	8.05	402.86	9.32	0.42	12.74
9/22/2024 11:40	13.82	153.91	0.07	8.04	402.67	9.31	0.33	12.74
9/22/2024 11:30	13.82	154.25	0.07	8.05	402.67	9.3	0.91	12.72
9/22/2024 11:20	13.82	153.88	0.07	8.04	402.47	9.35	0.21	12.62
9/22/2024 11:10	13.82	155.03	0.07	8.05	403.11	9.31	2.58	12.69
9/22/2024 11:00	13.81	154.93	0.07	8.02	403.38	9.37	0.15	12.67
9/22/2024 10:50	13.82	155.3	0.07	8.04	402.68	9.31	0.12	12.62
9/22/2024 10:40	13.82	154.1	0.07	8.03	402.19	9.37	0.48	12.67
9/22/2024 10:30	13.82	154.31	0.07	8.05	401.22	9.31	0.25	12.69
9/22/2024 10:20	13.84	155.69	0.07	8.02	401.66	9.29	4.98	12.67
9/22/2024 10:10	13.85	156.23	0.07	8.03	401.34	9.24	0	12.62
9/22/2024 10:00	13.89	156.92	0.07	8.02	401.68	9.23	0	12.5
9/22/2024 9:50	13.95	158.32	0.07	8.04	400.76	9.16	0	12.6
9/22/2024 9:40	14.1	169.26	0.08	7.99	405.07	8.92	0.09	12.43

EGP-STU-004 (W LNG DS) 2024-09-19 to 2024-09-22

9/22/2024 9:30	14.33	230.27	0.11	7.87	410.16	8.52	8.26	12.31
9/22/2024 9:20	14.28	230.97	0.11	7.88	411.24	8.55	5.04	12.17
9/22/2024 9:10	14.23	228.45	0.11	7.87	413.72	8.61	3.75	12.12
9/22/2024 9:00	14.18	227.53	0.11	7.88	414.59	8.67	2.53	12.12
9/22/2024 8:50	14.12	225.77	0.11	7.87	415.67	8.81	1.75	12.14
9/22/2024 8:40	13.94	202.77	0.1	7.93	411.9	9.19	6.38	12.31
9/22/2024 8:30	13.75	164.92	0.08	8.03	409.83	9.31	2.12	12.41
9/22/2024 8:20	13.7	156.75	0.07	8.03	408.75	9.35	0.05	12.41
9/22/2024 8:10	13.69	156.05	0.07	8.05	408.38	9.31	0.47	12.36
9/22/2024 8:00	13.68	155.06	0.07	8.04	408.3	9.4	0	12.33
9/22/2024 7:50	13.68	155.39	0.07	8.06	408.03	9.32	0	12.26
9/22/2024 7:40	13.68	155.37	0.07	8.04	408.57	9.36	0.34	12.19
9/22/2024 7:30	13.7	155.69	0.07	8.04	408.55	9.32	5.47	12.05
9/22/2024 7:20	13.7	155.63	0.07	8.03	408.66	9.32	0	12.02
9/22/2024 7:10	13.71	155.36	0.07	8.06	408.05	9.3	2.83	12.05
9/22/2024 7:00	13.72	155.16	0.07	8.04	407.89	9.31	0	12.07
9/22/2024 6:50	13.73	155.41	0.07	8.05	408.18	9.29	0	12.14
9/22/2024 6:40	13.75	154.87	0.07	8.03	408.2	9.37	0	12.14
9/22/2024 6:30	13.76	155.18	0.07	8.04	407.91	9.31	0	12.12
9/22/2024 6:20	13.78	154.75	0.07	8.03	407.25	9.36	0	12.05
9/22/2024 6:10	13.79	154.82	0.07	8.06	406.43	9.3	0	12.14
9/22/2024 6:00	13.81	155	0.07	8.03	407.23	9.3	0.62	12.14
9/22/2024 5:50	13.83	155.01	0.07	8.04	407.1	9.27	3.74	12.17
9/22/2024 5:40	13.84	154.38	0.07	8.02	407.51	9.33	0	12.07
9/22/2024 5:30	13.87	154.87	0.07	8.04	406.18	9.27	0.31	12.14
9/22/2024 5:20	13.88	155	0.07	8.02	406.55	9.29	0.77	12.12
9/22/2024 5:10	13.92	154.57	0.07	8.05	406.18	9.26	0.59	12.12
9/22/2024 5:00	13.94	154.46	0.07	8.03	405.75	9.3	0.2	12.09
9/22/2024 4:50	13.99	154.92	0.07	8.04	406.36	9.14	1.09	12.17
9/22/2024 4:40	14.11	165.82	0.08	7.97	412.22	8.94	1.13	12.19
9/22/2024 4:30	14.25	222.61	0.11	7.88	416.06	8.71	8.96	12.19
9/22/2024 4:20	14.18	210.64	0.1	7.9	414.14	8.95	6.27	12.19
9/22/2024 4:10	14.01	166.95	0.08	8.01	409.83	9.25	4.72	12.19
9/22/2024 4:00	13.98	154.52	0.07	8.04	408.74	9.31	6.74	12.19
9/22/2024 3:50	13.98	154.11	0.07	8.06	407.74	9.25	0.09	12.19
9/22/2024 3:40	14.01	154.16	0.07	8.03	408.12	9.25	0	12.12
9/22/2024 3:30	14.03	154.36	0.07	8.04	408.05	9.26	0	12.19
9/22/2024 3:20	14.03	154.33	0.07	8.04	407.83	9.27	0.06	12.17
9/22/2024 3:10	14.06	154.15	0.07	8.05	408.09	9.24	0.61	12.12
9/22/2024 3:00	14.07	154.21	0.07	8.03	408.32	9.31	0	12.14
9/22/2024 2:50	14.08	154.19	0.07	8.05	407.87	9.2	4.94	12.21
9/22/2024 2:40	14.09	154.25	0.07	8.04	408.01	9.31	0	12.12
9/22/2024 2:30	14.1	154.4	0.07	8.05	407.34	9.22	0.47	12.12
9/22/2024 2:20	14.12	154.07	0.07	8.04	406.93	9.32	1.96	12.12
9/22/2024 2:10	14.14	154.58	0.07	8.04	406.29	9.29	0	12.12
9/22/2024 2:00	14.14	154.63	0.07	8.03	406.04	9.26	0.55	12.24
9/22/2024 1:50	14.15	153.83	0.07	8.06	405.34	9.21	0.34	12.26

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9/22/2024 1:40	14.17	153.9	0.07	8.03	404.93	9.24	0.12	12.26
9/22/2024 1:30	14.18	153.57	0.07	8.06	404.47	9.21	0	12.26
9/22/2024 1:20	14.21	153.67	0.07	8.03	404.04	9.21	0	12.26
9/22/2024 1:10	14.24	154.41	0.07	8.05	404.09	9.19	2.35	12
9/22/2024 1:00	14.27	154.26	0.07	8.03	403.25	9.21	0.7	12.26
9/22/2024 0:50	14.29	154.42	0.07	8.05	402.92	9.16	1.81	12.24
9/22/2024 0:40	14.32	154.45	0.07	8.03	402.14	9.16	0	12.17
9/22/2024 0:30	14.35	154.43	0.07	8.05	401.37	9.15	0.36	12.26
9/22/2024 0:20	14.38	156.39	0.07	8	402.24	9.2	5.29	12.29
9/22/2024 0:10	14.42	177.82	0.08	7.95	407.55	8.64	2.1	12.26
9/22/2024 0:00	14.46	225.69	0.11	7.87	409.69	8.52	4.86	12.26
9/21/2024 23:50	14.46	223.92	0.11	7.88	411.34	8.61	8.66	12.26
9/21/2024 23:40	14.45	212.75	0.1	7.88	409.98	8.79	5.2	12.24
9/21/2024 23:30	14.41	156.48	0.07	8.03	403.35	9.19	0.01	12.31
9/21/2024 23:20	14.43	154.08	0.07	8.04	401.63	9.16	0	12.31
9/21/2024 23:10	14.45	154.18	0.07	8.04	401.45	9.14	6.15	12.31
9/21/2024 23:00	14.47	153.75	0.07	8.03	400.29	9.14	0.03	12.31
9/21/2024 22:50	14.48	154.03	0.07	8.04	399.66	9.09	0	12.31
9/21/2024 22:40	14.48	156.61	0.07	8	401.78	9.04	0.18	12.21
9/21/2024 22:30	14.54	219.83	0.1	7.88	409.26	8.47	7.85	12.29
9/21/2024 22:20	14.55	228.47	0.11	7.86	409.86	8.48	2.14	12.21
9/21/2024 22:10	14.55	227.68	0.11	7.86	411.29	8.5	3.36	12.29
9/21/2024 22:00	14.55	226.01	0.11	7.87	411.98	8.51	7.4	12.31
9/21/2024 21:50	14.56	223.1	0.11	7.86	413.88	8.59	11.86	12.31
9/21/2024 21:40	14.56	218.42	0.1	7.86	413.32	8.78	10.34	12.33
9/21/2024 21:30	14.57	157.13	0.07	8.04	406.44	9.16	0.44	12.33
9/21/2024 21:20	14.58	154.58	0.07	8.06	405.26	9.15	0	12.24
9/21/2024 21:10	14.58	154.54	0.07	8.07	405.07	9.14	1.4	12.21
9/21/2024 21:00	14.59	154.38	0.07	8.05	404.89	9.16	0	12.26
9/21/2024 20:50	14.59	154.3	0.07	8.06	404.77	9.17	0	12.36
9/21/2024 20:40	14.6	155.29	0.07	8.04	405.18	9.18	0.38	12.36
9/21/2024 20:30	14.6	154.39	0.07	8.07	404.21	9.16	0	12.36
9/21/2024 20:20	14.6	154.39	0.07	8.05	403.82	9.2	0.99	12.36
9/21/2024 20:10	14.6	154.19	0.07	8.07	403.39	9.16	0	12.36
9/21/2024 20:00	14.6	154.06	0.07	8.06	402.93	9.2	0	12.36
9/21/2024 19:50	14.59	154.29	0.07	8.07	402.33	9.14	0.24	12.26
9/21/2024 19:40	14.6	154.47	0.07	8.06	402.23	9.17	1.12	12.33
9/21/2024 19:30	14.6	154.12	0.07	8.07	401.98	9.16	0	12.41
9/21/2024 19:20	14.61	154.15	0.07	8.06	401.13	9.14	0.84	12.41
9/21/2024 19:10	14.62	154.52	0.07	8.06	401.32	9.15	0	12.45
9/21/2024 19:00	14.62	154.12	0.07	8.04	400.61	9.21	0.19	12.53
9/21/2024 18:50	14.62	154.19	0.07	8.06	399.86	9.14	0	12.53
9/21/2024 18:40	14.62	154.1	0.07	8.03	400.21	9.18	0	12.62
9/21/2024 18:30	14.62	154.59	0.07	8.03	399.85	9.2	8.47	12.79
9/21/2024 18:20	14.62	154.91	0.07	8.01	399.32	9.17	0.3	12.96
9/21/2024 18:10	14.61	157.24	0.07	8.01	399.5	8.93	24.3	13.1
9/21/2024 18:00	14.75	228.13	0.11	7.86	404.62	8.44	4.45	13.17

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9/21/2024 17:50	14.76	227.03	0.11	7.86	405.92	8.44	2.2	12.91
9/21/2024 17:40	14.77	226.96	0.11	7.87	404.37	8.46	2.27	12.88
9/21/2024 17:30	14.79	226.23	0.11	7.88	406.04	8.46	5.49	12.81
9/21/2024 17:20	14.8	223.92	0.11	7.88	406.23	8.5	1.65	13.12
9/21/2024 17:10	14.79	223.03	0.11	7.88	407.44	8.5	2.15	13.17
9/21/2024 17:00	14.78	221.73	0.11	7.9	407.37	8.54	3.42	13.41
9/21/2024 16:50	14.79	218.45	0.1	7.9	408.1	8.63	6.66	13.39
9/21/2024 16:40	14.78	206.73	0.1	7.91	405.75	8.98	8.37	13.39
9/21/2024 16:30	14.68	157.16	0.07	8.07	399.57	9.21	12.42	13.39
9/21/2024 16:20	14.66	152.13	0.07	8.08	399.97	9.25	0	13.41
9/21/2024 16:10	14.64	153.62	0.07	8.08	400.64	9.11	0.36	13.44
9/21/2024 16:00	14.73	191.73	0.09	7.93	407.24	8.81	4.78	13.46
9/21/2024 15:50	14.63	180.63	0.09	7.95	401.58	9.22	12.41	13.44
9/21/2024 15:40	14.59	151.94	0.07	8.09	399.34	9.22	0	13.41
9/21/2024 15:30	14.6	151.24	0.07	8.12	397.99	9.23	0	13.36
9/21/2024 15:20	14.63	151.46	0.07	8.1	397.47	9.26	0	13.27
9/21/2024 15:10	14.65	151.79	0.07	8.12	397.51	9.25	0	13.34
9/21/2024 15:00	14.64	151.42	0.07	8.1	397.23	9.27	0	13.22
9/21/2024 14:50	14.63	151.37	0.07	8.13	396.73	9.29	0	13.22
9/21/2024 14:40	14.57	151.49	0.07	8.11	397.37	9.32	0	13.24
9/21/2024 14:30	14.53	151.91	0.07	8.13	397.13	9.27	0	13.34
9/21/2024 14:20	14.48	152.02	0.07	8.1	397.41	9.36	0	13.34
9/21/2024 14:10	14.43	152.04	0.07	8.12	397.72	9.33	0	13.36
9/21/2024 14:00	14.36	152.11	0.07	8.1	397.63	9.37	0	13.36
9/21/2024 13:50	14.32	152.77	0.07	8.11	397.82	9.38	0	13.36
9/21/2024 13:40	14.26	152.49	0.07	8.1	397.89	9.38	0	13.36
9/21/2024 13:30	14.23	152.57	0.07	8.11	397.65	9.35	0	13.36
9/21/2024 13:20	14.21	152.86	0.07	8.11	397.07	9.37	5.71	13.36
9/21/2024 13:10	14.17	152.83	0.07	8.12	397.42	9.34	0	13.39
9/21/2024 13:00	14.14	153.32	0.07	8.08	398.89	9.39	1.54	13.41
9/21/2024 12:50	14.1	153.98	0.07	8.12	398.07	9.39	0.48	13.41
9/21/2024 12:40	14.07	153.47	0.07	8.1	398.26	9.44	0	13.44
9/21/2024 12:30	14.02	153.98	0.07	8.11	398.68	9.42	0	13.48
9/21/2024 12:20	13.96	153.87	0.07	8.1	398.8	9.44	5.08	13.51
9/21/2024 12:10	13.9	154.47	0.07	8.11	399.28	9.44	0.68	13.53
9/21/2024 12:00	13.85	154.27	0.07	8.1	399.47	9.45	0	13.46
9/21/2024 11:50	13.84	155.3	0.07	8.1	400.23	9.42	0.44	13.53
9/21/2024 11:40	13.82	155.65	0.07	8.09	400.42	9.42	0.1	13.53
9/21/2024 11:30	13.81	156.24	0.07	8.08	403.9	9.09	1.23	13.56
9/21/2024 11:20	13.78	155.48	0.07	8.08	401.28	9.5	0	13.53
9/21/2024 11:10	13.76	156.7	0.07	8.01	400.71	9.33	0	13.53
9/21/2024 11:00	13.73	152.22	0.07	8.1	397.28	9.45	0	13.46
9/21/2024 10:50	13.71	155.31	0.07	8.09	398.88	9.46	17.91	13.58
9/21/2024 10:40	13.69	154.66	0.07	8.08	399	9.43	1.88	13.63
9/21/2024 10:30	13.66	154.17	0.07	8.09	399.03	9.43	0.16	13.65
9/21/2024 10:20	13.64	153.99	0.07	8.08	398.73	9.42	0	13.67
9/21/2024 10:10	13.63	154.05	0.07	8.08	398.7	9.4	1.54	13.67

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9/21/2024 10:00	13.65	154.64	0.07	8.06	398.5	9.47	0	13.41
9/21/2024 9:50	13.66	155.29	0.07	8.06	398.28	9.41	0	13.36
9/21/2024 9:40	13.67	155.86	0.07	8.04	397.71	9.47	2.79	13.36
9/21/2024 9:30	13.67	155.35	0.07	8.07	397.39	9.41	0	13.56
9/21/2024 9:20	13.68	154.95	0.07	8.04	397.13	9.38	0	13.1
9/21/2024 9:10	13.71	155.27	0.07	8.05	397.2	9.37	0.05	12.86
9/21/2024 9:00	13.78	156.92	0.07	8.02	398.16	9.4	0	12.76
9/21/2024 8:50	13.88	160.71	0.08	8	397.63	8.9	0.37	12.67
9/21/2024 8:40	14.11	231.1	0.11	7.89	403.71	8.51	3.27	12.6
9/21/2024 8:30	14.1	230.69	0.11	7.89	404.5	8.54	2.25	12.55
9/21/2024 8:20	14.07	230.93	0.11	7.89	404.42	8.56	2.37	12.33
9/21/2024 8:10	14.06	228.64	0.11	7.89	405.54	8.6	3.04	12.24
9/21/2024 8:00	14.02	229.76	0.11	7.89	405.45	8.65	1.69	12.12
9/21/2024 7:50	14	225.55	0.11	7.9	406.97	8.69	6.09	12.12
9/21/2024 7:40	13.96	224.59	0.11	7.91	406.71	8.78	3.18	12.21
9/21/2024 7:30	13.9	212.26	0.1	7.9	406.62	8.99	6.59	12.19
9/21/2024 7:20	13.74	175.28	0.08	7.99	402.67	9.31	1.39	12.07
9/21/2024 7:10	13.71	158.15	0.07	8.02	401.05	9.28	0.26	12.17
9/21/2024 7:00	13.83	181.25	0.09	7.96	405.28	8.83	0.48	12.17
9/21/2024 6:50	13.92	222.61	0.11	7.9	406.29	8.85	3.18	12.17
9/21/2024 6:40	13.86	213.96	0.1	7.91	405.47	9.13	9.47	12.17
9/21/2024 6:30	13.68	175.78	0.08	8	399.97	9.37	32.03	12.17
9/21/2024 6:20	13.61	160.38	0.08	8.05	399.29	9.37	0.9	12.17
9/21/2024 6:10	13.6	158.68	0.07	8.08	398.37	9.41	0	12.17
9/21/2024 6:00	13.61	158.81	0.08	8.06	398.12	9.44	1.65	12.17
9/21/2024 5:50	13.62	158.85	0.08	8.08	398.53	9.4	0.03	12.07
9/21/2024 5:40	13.64	158.49	0.07	8.08	398.1	9.42	2.04	12.14
9/21/2024 5:30	13.65	158.53	0.07	8.08	398.44	9.41	0	12.17
9/21/2024 5:20	13.66	158.55	0.07	8.07	398.69	9.4	5.53	12.14
9/21/2024 5:10	13.67	158.57	0.07	8.08	398.9	9.39	0	12.14
9/21/2024 5:00	13.69	158.16	0.07	8.07	398.78	9.4	0	12.05
9/21/2024 4:50	13.71	158.07	0.07	8.08	399.43	9.38	0.1	12.07
9/21/2024 4:40	13.74	157.76	0.07	8.06	399.35	9.39	0.4	12.07
9/21/2024 4:30	13.77	157.68	0.07	8.07	399.61	9.37	0.74	12.19
9/21/2024 4:20	13.8	157.57	0.07	8.06	399.67	9.38	0.03	12.19
9/21/2024 4:10	13.82	157.5	0.07	8.08	399.37	9.34	0	12.19
9/21/2024 4:00	13.85	156.93	0.07	8.07	398.98	9.36	0	12.19
9/21/2024 3:50	13.87	157.06	0.07	8.07	399.27	9.32	0	12.21
9/21/2024 3:40	13.92	156.83	0.07	8.06	398.87	9.34	0	12.21
9/21/2024 3:30	13.95	156.2	0.07	8.07	398.64	9.35	0	12.21
9/21/2024 3:20	13.98	156.07	0.07	8.07	398.1	9.32	0	12.17
9/21/2024 3:10	14.01	155.96	0.07	8.06	398.19	9.32	0.95	12.07
9/21/2024 3:00	14.05	155.5	0.07	8.05	397.51	9.33	0	12.09
9/21/2024 2:50	14.08	155.77	0.07	8.06	397.51	9.31	0.11	12.14
9/21/2024 2:40	14.13	154.74	0.07	8.04	396.94	9.3	0	12.21
9/21/2024 2:30	14.16	155.09	0.07	8.03	397.49	9.32	0.29	12.14
9/21/2024 2:20	14.19	153.49	0.07	8.02	396.83	9.26	0	12.24

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9/21/2024 2:10	14.19	179.22	0.08	7.95	402.09	8.59	0.82	12.21
9/21/2024 2:00	14.23	228.12	0.11	7.89	403.18	8.58	1.12	12.12
9/21/2024 1:50	14.23	226.1	0.11	7.88	404.09	8.6	3.22	12.24
9/21/2024 1:40	14.24	225.11	0.11	7.89	403.38	8.65	5.25	12.21
9/21/2024 1:30	14.25	221.42	0.11	7.88	405	8.76	5.82	12.24
9/21/2024 1:20	14.28	203.18	0.1	7.94	399.27	9.25	3.64	12.26
9/21/2024 1:10	14.32	154.57	0.07	8.04	397.08	9.23	0.07	12.26
9/21/2024 1:00	14.35	154.83	0.07	8.04	395.94	9.25	0	12.26
9/21/2024 0:50	14.38	155.26	0.07	8.06	395.76	9.2	0.56	12.26
9/21/2024 0:40	14.33	163.14	0.08	7.99	400.61	8.84	1.79	12.26
9/21/2024 0:30	14.33	228.29	0.11	7.85	406.3	8.53	3.81	12.26
9/21/2024 0:20	14.35	220.79	0.11	7.88	401.84	8.61	5.62	12.26
9/21/2024 0:10	14.39	222.61	0.11	7.88	404.19	8.74	8.91	12.26
9/21/2024 0:00	14.47	194.69	0.09	7.92	399.57	9.13	6.93	12.26
9/20/2024 23:50	14.55	155.08	0.07	8.08	396	9.17	3.24	12.26
9/20/2024 23:40	14.57	155.3	0.07	8.04	396.54	9.21	2.59	12.26
9/20/2024 23:30	14.61	154.46	0.07	8.07	395.79	9.21	38.45	12.26
9/20/2024 23:20	14.63	154.43	0.07	8.04	396.16	9.21	0.71	12.26
9/20/2024 23:10	14.67	154.74	0.07	8.07	396.13	9.19	0.09	12.19
9/20/2024 23:00	14.69	155.1	0.07	8.05	396.01	9.2	0	12.29
9/20/2024 22:50	14.72	154.94	0.07	8.07	395.61	9.12	0	12.29
9/20/2024 22:40	14.75	154.35	0.07	8.07	395.92	9.07	0	12.29
9/20/2024 22:30	14.75	155.61	0.07	8.06	398.44	8.89	0	12.29
9/20/2024 22:20	14.77	151.98	0.07	8.04	395.35	9.18	0	12.31
9/20/2024 22:10	14.77	155.37	0.07	8.06	396.73	8.99	0.02	12.19
9/20/2024 22:00	14.8	148.78	0.07	8.04	393.65	9.16	0	12.26
9/20/2024 21:50	14.82	155.08	0.07	8.06	393.12	9.15	5.81	12.31
9/20/2024 21:40	14.84	155.22	0.07	8.04	392.83	9.14	0	12.31
9/20/2024 21:30	14.85	155.04	0.07	8.06	391.91	9.16	0.45	12.31
9/20/2024 21:20	14.88	155.29	0.07	8.06	391.1	9.11	3.14	12.31
9/20/2024 21:10	14.87	155.42	0.07	8.05	390.75	9.14	0.52	12.33
9/20/2024 21:00	14.84	158.77	0.08	8.06	391.5	9.06	0	12.33
9/20/2024 20:50	14.81	157.97	0.07	8.01	395.34	8.92	0.32	12.33
9/20/2024 20:40	14.75	152.58	0.07	8.03	393.28	9.1	1.48	12.31
9/20/2024 20:30	14.53	202.91	0.1	7.92	401.23	8.4	3.56	12.33
9/20/2024 20:20	14.53	227.92	0.11	7.86	401.38	8.4	3.61	12.31
9/20/2024 20:10	14.55	227.62	0.11	7.86	402.01	8.4	5.14	12.33
9/20/2024 20:00	14.56	226.56	0.11	7.88	398.92	8.44	1.91	12.36
9/20/2024 19:50	14.58	227.07	0.11	7.87	399.96	8.38	2.23	12.33
9/20/2024 19:40	14.59	227.2	0.11	7.86	399.38	8.42	2.94	12.31
9/20/2024 19:30	14.62	227.47	0.11	7.87	398.78	8.42	3.16	12.24
9/20/2024 19:20	14.63	226.91	0.11	7.86	399.47	8.43	4.57	12.38
9/20/2024 19:10	14.65	227.14	0.11	7.85	399.06	8.37	10.46	12.41
9/20/2024 19:00	14.66	219.83	0.1	7.85	397.67	8.43	1.99	12.43
9/20/2024 18:50	14.69	219.38	0.1	7.86	396.18	8.47	1.81	12.45
9/20/2024 18:40	14.71	224.65	0.11	7.83	397.04	8.45	4.97	12.48
9/20/2024 18:30	14.79	221.7	0.11	7.88	396.88	8.55	7.56	12.48

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9/20/2024 18:20	14.97	207.78	0.1	7.87	393.04	8.83	6.15	12.43
9/20/2024 18:10	15.21	155.22	0.07	8.06	389	9	2.93	12.48
9/20/2024 18:00	15.25	157.6	0.07	8.03	388.4	9	13.26	12.69
9/20/2024 17:50	15.31	153.51	0.07	8.07	386.42	9.08	17.37	13.08
9/20/2024 17:40	15.3	154.32	0.07	8.06	386.47	9.04	2	13.05
9/20/2024 17:30	15.29	153.76	0.07	8.09	385.3	9.08	2.92	13.08
9/20/2024 17:20	15.27	153	0.07	8.07	386.16	9.07	0	13.36
9/20/2024 17:10	15.22	153.34	0.07	8.07	389.48	8.9	0.14	13.36
9/20/2024 17:00	15.2	152.72	0.07	8.09	384.53	9.1	0.26	13.32
9/20/2024 16:50	15.12	154.58	0.07	8.05	388.12	9.01	15.3	13.15
9/20/2024 16:40	15.06	153.68	0.07	8.03	387.58	9.04	0	13.34
9/20/2024 16:30	14.97	151.93	0.07	8.1	386.48	9.15	1.83	13.34
9/20/2024 16:20	14.95	192.95	0.09	7.92	394.09	8.42	1.99	13.36
9/20/2024 16:10	15.02	224.87	0.11	7.89	394.9	8.44	2.75	13.34
9/20/2024 16:00	15.03	224.22	0.11	7.87	394.65	8.4	6.19	13.34
9/20/2024 15:50	15.08	224.21	0.11	7.89	394.37	8.41	24.88	13.34
9/20/2024 15:40	15.1	223.85	0.11	7.88	393.15	8.4	4.46	13.34
9/20/2024 15:30	15.13	223.82	0.11	7.89	394.32	8.45	9.45	13.34
9/20/2024 15:20	15.12	222.37	0.11	7.88	392.45	8.48	8.66	13.34
9/20/2024 15:10	15.13	221.47	0.11	7.9	392.32	8.51	5.14	13.34
9/20/2024 15:00	15.12	217.35	0.1	7.88	392.36	8.61	22.74	13.27
9/20/2024 14:50	15.1	211.07	0.1	7.91	387.47	8.81	19.59	13.27
9/20/2024 14:40	15.01	169.73	0.08	8.02	383.54	9.16	33.69	13.36
9/20/2024 14:30	14.94	155.38	0.07	8.07	382.74	9.04	3.01	13.36
9/20/2024 14:20	14.88	154.39	0.07	8.07	380.79	9.21	9.76	13.36
9/20/2024 14:10	14.82	154.53	0.07	8.06	382.2	9.23	15.94	13.39
9/20/2024 14:00	14.74	156.29	0.07	8.1	383.4	9.08	3.58	13.32
9/20/2024 13:50	14.68	153.72	0.07	8.05	380.74	9.29	0	13.32
9/20/2024 13:40	14.61	155.55	0.07	8.03	384.83	9.1	211.83	13.44
9/20/2024 13:30	14.55	150.09	0.07	8.04	380.97	9.32	1.75	13.46
9/20/2024 13:20	14.47	157.3	0.07	8.04	381.4	9.34	0	13.39
9/20/2024 13:10	14.37	156.86	0.07	8.03	382.26	9.35	0	13.53
9/20/2024 13:00	14.31	157.16	0.07	8.03	383.09	9.33	0	13.46
9/20/2024 12:50	14.28	156.68	0.07	8.03	383.43	9.33	0	13.46
9/20/2024 12:40	14.26	156.98	0.07	8.03	383.22	9.35	0	13.56
9/20/2024 12:30	14.22	156.24	0.07	8.03	383.72	9.35	0	13.58
9/20/2024 12:20	14.18	156.02	0.07	8.02	384.25	9.35	0.62	13.6
9/20/2024 12:10	14.15	156.43	0.07	8.01	384.82	9.35	0	13.6
9/20/2024 12:00	14.13	156.75	0.07	8.01	385.21	9.33	0	13.6
9/20/2024 11:50	14.11	157.07	0.07	8	385.11	9.32	0	13.6
9/20/2024 11:40	14.12	157.62	0.07	8	384.62	9.33	0	13.56
9/20/2024 11:30	14.13	157.5	0.07	8	384.67	9.32	0	13.63
9/20/2024 11:20	14.13	157.38	0.07	8.01	384.09	9.33	0	13.41
9/20/2024 11:10	14.14	158.14	0.07	8.02	383.93	9.33	0	13.58
9/20/2024 11:00	14.12	158.01	0.07	8.01	383.44	9.35	0	13.58
9/20/2024 10:50	14.09	158.58	0.07	8	383.68	9.34	0.94	13.58
9/20/2024 10:40	14.08	158.49	0.07	7.99	384.02	9.33	0	13.6

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9/20/2024 10:30	14.07	159.09	0.08	7.98	384.04	9.33	0	13.51
9/20/2024 10:20	14.07	159.92	0.08	7.99	384.13	9.33	0	13.63
9/20/2024 10:10	14.07	160.85	0.08	7.99	384.3	9.33	0	13.44
9/20/2024 10:00	14.06	161.17	0.08	7.98	384.65	9.33	0	13.51
9/20/2024 9:50	14.06	161.46	0.08	7.98	384.66	9.33	0	13.44
9/20/2024 9:40	14.05	161.45	0.08	7.98	384.99	9.32	0	13.46
9/20/2024 9:30	14.03	161.82	0.08	7.98	385.46	9.31	0	13.15
9/20/2024 9:20	14.04	162.55	0.08	7.97	385.89	9.3	0	12.84
9/20/2024 9:10	14.06	163.78	0.08	7.97	386.28	9.29	0	12.88
9/20/2024 9:00	14.07	164.88	0.08	7.97	386.87	9.28	0	12.86
9/20/2024 8:50	14.1	167.93	0.08	7.97	388.14	9.26	0	12.79
9/20/2024 8:40	14.14	177.81	0.08	7.95	389.24	9.23	0	12.76
9/20/2024 8:30	14.2	186.22	0.09	7.94	392.54	9.05	0.23	12.69
9/20/2024 8:20	14.3	218.66	0.1	7.91	400.36	8.15	2.83	12.57
9/20/2024 8:10	14.29	229.66	0.11	7.91	398.8	8.21	0.95	12.45
9/20/2024 8:00	14.29	229.1	0.11	7.91	397.71	8.25	1.15	12.33
9/20/2024 7:50	14.29	228.51	0.11	7.91	396.46	8.29	0.83	12.24
9/20/2024 7:40	14.28	227.99	0.11	7.91	394.89	8.36	1.84	12.12
9/20/2024 7:30	14.27	225.64	0.11	7.91	392.67	8.45	1.17	12.24
9/20/2024 7:20	14.23	217.74	0.1	7.94	388.91	8.82	2.2	12.12
9/20/2024 7:10	14.13	163.8	0.08	8	385.08	9.22	0	12.24
9/20/2024 7:00	14.13	162.78	0.08	7.98	384.65	9.23	0	12.21
9/20/2024 6:50	14.14	163.32	0.08	7.97	384.87	9.21	0	12.21
9/20/2024 6:40	14.16	163.4	0.08	7.98	385.31	9.2	0.05	12.21
9/20/2024 6:30	14.17	163.67	0.08	7.98	385.63	9.19	0	12.24
9/20/2024 6:20	14.19	163.57	0.08	7.99	383.91	9.21	0.19	12.24
9/20/2024 6:10	14.2	163.69	0.08	7.98	384.07	9.2	0	12.24
9/20/2024 6:00	14.22	164.12	0.08	7.98	383.77	9.21	0	12.24
9/20/2024 5:50	14.24	164.39	0.08	7.98	383.69	9.2	0	12.24
9/20/2024 5:40	14.26	164.46	0.08	7.98	383.39	9.19	0.36	12.24
9/20/2024 5:30	14.29	164.76	0.08	7.99	383.18	9.19	0.21	12.21
9/20/2024 5:20	14.31	165.08	0.08	7.99	383.13	9.19	0	12.12
9/20/2024 5:10	14.33	165.25	0.08	7.99	383.37	9.2	0	12.14
9/20/2024 5:00	14.34	165.65	0.08	7.99	384.21	9.17	0	12.26
9/20/2024 4:50	14.35	165.7	0.08	7.99	384.28	9.17	0	12.26
9/20/2024 4:40	14.37	166.32	0.08	7.99	384.11	9.16	0.32	12.26
9/20/2024 4:30	14.38	167.49	0.08	7.98	384.14	9.16	0	12.26
9/20/2024 4:20	14.41	168.32	0.08	7.99	384.13	9.16	0	12.24
9/20/2024 4:10	14.42	170.42	0.08	7.98	384.27	9.16	0.3	12.14
9/20/2024 4:00	14.43	174.8	0.08	7.97	385.46	9.15	0	12.17
9/20/2024 3:50	14.42	179.62	0.09	7.95	387.88	9.01	0	12.24
9/20/2024 3:40	14.42	225.32	0.11	7.89	389.44	8.42	1.03	12.14
9/20/2024 3:30	14.43	225.08	0.11	7.91	387.29	8.45	3.13	12.21
9/20/2024 3:20	14.44	220.1	0.1	7.91	384.42	8.62	2.52	12.26
9/20/2024 3:10	14.5	196.86	0.09	8.01	381.22	9.11	5.47	12.26
9/20/2024 3:00	14.54	166.12	0.08	7.99	379.85	9.13	0.12	12.14
9/20/2024 2:50	14.56	165.71	0.08	7.98	379.4	9.14	0	12.14

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9/20/2024 2:40	14.59	166.33	0.08	7.98	379.32	9.13	0	12.14
9/20/2024 2:30	14.61	166.66	0.08	7.99	379.39	9.13	0	12.24
9/20/2024 2:20	14.64	166.78	0.08	8	379.69	9.12	0	12.19
9/20/2024 2:10	14.66	167.23	0.08	8	379.95	9.12	0	12.29
9/20/2024 2:00	14.68	167.96	0.08	8	379.9	9.1	0	12.29
9/20/2024 1:50	14.69	168.57	0.08	7.99	380.16	9.08	0	12.29
9/20/2024 1:40	14.73	169.95	0.08	8.01	378.86	9.09	0	12.29
9/20/2024 1:30	14.76	167.96	0.08	8	377.82	9.09	0	12.26
9/20/2024 1:20	14.78	167.84	0.08	8	377.53	9.09	0.04	12.19
9/20/2024 1:10	14.79	167.68	0.08	8	377.23	9.08	0	12.29
9/20/2024 1:00	14.8	167.53	0.08	7.98	377.43	9.09	0	12.31
9/20/2024 0:50	14.82	167.74	0.08	7.99	377.48	9.07	0.08	12.31
9/20/2024 0:40	14.83	167.99	0.08	7.99	377.72	9.07	0	12.29
9/20/2024 0:30	14.84	168.58	0.08	7.97	377.75	9.08	0	12.31
9/20/2024 0:20	14.85	168.83	0.08	7.97	378.08	9.06	0	12.31
9/20/2024 0:10	14.86	169.46	0.08	7.97	378.38	9.06	0	12.31
9/20/2024 0:00	14.87	169.43	0.08	7.96	378.55	9.06	0	12.31
9/19/2024 23:50	14.87	169.27	0.08	7.96	379.01	9.05	0	12.31
9/19/2024 23:40	14.84	169.06	0.08	7.95	379.66	9.06	0	12.31
9/19/2024 23:30	14.79	170.12	0.08	7.95	381.88	9.06	0.85	12.31
9/19/2024 23:20	14.65	173.75	0.08	7.96	386.27	9.03	0.28	12.31
9/19/2024 23:10	14.58	229.76	0.11	7.83	399.37	7.67	2.99	12.24
9/19/2024 23:00	14.6	232.95	0.11	7.84	399.49	7.72	0.48	12.31
9/19/2024 22:50	14.61	232.76	0.11	7.84	399.21	7.64	0.29	12.31
9/19/2024 22:40	14.62	232.65	0.11	7.84	398.81	7.68	0.15	12.29
9/19/2024 22:30	14.63	232.45	0.11	7.84	398.33	7.6	0.7	12.24
9/19/2024 22:20	14.64	232.19	0.11	7.84	397.8	7.63	0.37	12.31
9/19/2024 22:10	14.65	231.96	0.11	7.84	397.38	7.58	0.88	12.31
9/19/2024 22:00	14.66	231.8	0.11	7.84	396.91	7.65	0.3	12.33
9/19/2024 21:50	14.67	231.54	0.11	7.84	396.31	7.6	0.4	12.24
9/19/2024 21:40	14.68	231.26	0.11	7.84	395.82	7.63	0.07	12.24
9/19/2024 21:30	14.69	231.11	0.11	7.84	395.23	7.59	0.12	12.24
9/19/2024 21:20	14.69	230.84	0.11	7.85	394.81	7.63	0.29	12.36
9/19/2024 21:10	14.7	230.54	0.11	7.84	394.13	7.63	0.24	12.36
9/19/2024 21:00	14.71	230.17	0.11	7.85	393.59	7.71	0.15	12.36
9/19/2024 20:50	14.71	229.89	0.11	7.85	392.91	7.76	0.33	12.36
9/19/2024 20:40	14.71	229.67	0.11	7.86	392.27	7.88	0	12.36
9/19/2024 20:30	14.72	229.43	0.11	7.87	391.62	7.9	0.01	12.36
9/19/2024 20:20	14.73	229.16	0.11	7.87	390.95	8.01	0	12.38
9/19/2024 20:10	14.74	228.97	0.11	7.88	390.42	7.98	0.59	12.29
9/19/2024 20:00	14.76	228.8	0.11	7.88	389.64	8.03	0.71	12.38
9/19/2024 19:50	14.77	228.59	0.11	7.88	389.01	7.99	0.46	12.38
9/19/2024 19:40	14.78	228.35	0.11	7.88	388.12	8.06	0.3	12.38
9/19/2024 19:30	14.8	228.14	0.11	7.89	387.38	8.08	0.79	12.31
9/19/2024 19:20	14.81	227.82	0.11	7.89	386.76	8.13	0.4	12.36
9/19/2024 19:10	14.83	227.5	0.11	7.89	386.06	8.13	0.21	12.48
9/19/2024 19:00	14.85	227.03	0.11	7.89	385.27	8.17	0.35	12.45

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9/19/2024 18:50	14.86	226.94	0.11	7.89	384.68	8.17	0.96	12.74
9/19/2024 18:40	14.88	226.4	0.11	7.9	384.28	8.18	0.71	12.86
9/19/2024 18:30	14.9	225.54	0.11	7.9	383.4	8.18	1.05	12.91
9/19/2024 18:20	14.92	224.43	0.11	7.9	382.5	8.21	1.17	12.93
9/19/2024 18:10	14.94	223.48	0.11	7.91	381.39	8.22	2.55	12.98
9/19/2024 18:00	14.97	222.25	0.11	7.91	380.33	8.24	2.27	12.91
9/19/2024 17:50	15.01	221.94	0.11	7.9	378.66	8.27	1.76	12.81
9/19/2024 17:40	15.05	220.69	0.11	7.89	376.82	8.31	1.97	13.08
9/19/2024 17:30	15.09	217.78	0.1	7.88	374.14	8.37	2.69	13.1
9/19/2024 17:20	15.17	211.64	0.1	7.92	371.95	8.41	2.35	13.27
9/19/2024 17:10	15.29	198.61	0.09	7.94	370.25	8.44	5.51	13.32
9/19/2024 17:00	15.59	167.46	0.08	8.03	364.42	8.96	0	13.29
9/19/2024 16:50	15.62	164.02	0.08	8.01	363.35	8.97	0.19	13.29
9/19/2024 16:40	15.6	164.74	0.08	7.99	363.86	8.98	0	13.32
9/19/2024 16:30	15.6	164.63	0.08	7.98	364.08	8.98	0.09	13.32
9/19/2024 16:20	15.6	164.92	0.08	7.98	364.09	8.98	0	13.29
9/19/2024 16:10	15.6	164.12	0.08	7.98	364.48	8.98	0.35	13.27
9/19/2024 16:00	15.59	166.41	0.08	7.96	365.75	8.98	0	13.2
9/19/2024 15:50	15.56	168.76	0.08	7.96	367.1	9	0.31	13.32
9/19/2024 15:40	15.49	178.46	0.08	7.96	369.82	8.82	0	13.24
9/19/2024 15:30	15.4	228.6	0.11	7.87	378.27	8.4	1.72	13.22
9/19/2024 15:20	15.37	228.07	0.11	7.86	376.67	8.42	1.3	13.24
9/19/2024 15:10	15.33	227.05	0.11	7.86	374.03	8.45	1.55	13.27
9/19/2024 15:00	15.29	227.28	0.11	7.87	373.49	8.38	1.97	13.41
9/19/2024 14:50	15.27	227.91	0.11	7.88	376.82	8.06	2.39	13.44
9/19/2024 14:40	15.32	228.49	0.11	7.89	377.42	8.03	0.65	13.39
9/19/2024 14:30	15.34	228.35	0.11	7.89	376.93	7.91	0.42	13.41
9/19/2024 14:20	15.37	228	0.11	7.89	376.72	7.96	0.3	13.39
9/19/2024 14:10	15.36	227.51	0.11	7.88	375.18	7.96	0	13.39
9/19/2024 14:00	15.35	228.27	0.11	7.88	375.43	8.09	0.5	13.39
9/19/2024 13:50	15.3	227.67	0.11	7.87	376.66	8.03	0.69	13.27
9/19/2024 13:40	15.25	227.41	0.11	7.87	375.28	8.1	0.4	13.39
9/19/2024 13:30	15.2	227.29	0.11	7.87	374.88	8.12	1.12	13.41
9/19/2024 13:20	15.16	227.63	0.11	7.87	371.95	8.16	0.8	13.44
9/19/2024 13:10	15.16	226.95	0.11	7.88	370.34	8.23	1.3	13.34
9/19/2024 13:00	15.18	225.97	0.11	7.89	368.52	8.29	2.02	13.44
9/19/2024 12:50	15.24	225.53	0.11	7.9	367.48	8.37	2.25	13.41
9/19/2024 12:40	15.28	219.94	0.1	7.9	366.37	8.3	1.5	13.32
9/19/2024 12:30	15.26	218.87	0.1	7.89	368.54	8.35	1.93	13.34
9/19/2024 12:20	15.2	206.97	0.1	7.94	364.9	8.72	0.89	13.36
9/19/2024 12:10	15.09	162.36	0.08	8.04	358.52	9.14	0.77	13.29
9/19/2024 12:00	15.03	161.64	0.08	8	358.45	9.11	0	13.44
9/19/2024 11:50	14.97	161.34	0.08	7.99	357.59	9.12	0	13.48
9/19/2024 11:40	14.91	161.44	0.08	7.99	358.11	9.13	0	13.51
9/19/2024 11:30	14.87	160.75	0.08	8.03	358.11	9.15	0	13.44
9/19/2024 11:20	14.84	160.82	0.08	8.01	357.39	9.15	0	13.24
9/19/2024 11:10	14.82	162.23	0.08	7.99	356.49	9.15	0	12.98

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9/19/2024 11:00	14.81	161.83	0.08	7.99	356.02	9.15	0.22	12.88
9/19/2024 10:50	14.8	161.9	0.08	8	355.13	9.12	0	12.96
9/19/2024 10:40	14.79	161.85	0.08	8.04	354.32	8.98	0	12.96
9/19/2024 10:30	14.78	163.03	0.08	7.97	354.48	9.14	1.17	12.86
9/19/2024 10:20	14.78	163.54	0.08	7.99	353.73	9.13	0	12.81
9/19/2024 10:10	14.77	163.58	0.08	8	353.78	9.14	0	12.74
9/19/2024 10:00	14.77	163.26	0.08	8	353.94	9.12	0	12.6
9/19/2024 9:50	14.76	163.94	0.08	8.01	357.57	9.11	0	12.62
9/19/2024 9:40	14.77	164.56	0.08	8.02	356.45	9.02	0	12.53
9/19/2024 9:30	14.79	165.95	0.08	8	352.69	9	0	12.45
9/19/2024 9:20	14.84	169.17	0.08	7.99	346.28	9.01	1.22	12.48
9/19/2024 9:10	14.93	174.93	0.08	7.98	338.74	8.94	0	12.55
9/19/2024 9:00	15.08	190.1	0.09	7.91	325.23	8.86	0	12.29
9/19/2024 8:50	15.57	186.97	0.09	7.74	286.93	4.71	38.58	12.21