



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

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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

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

Appendix D: Woodfibre Receiving Environment Documentation

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Preamble

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

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

Introduction

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

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

Sampling Methodology

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

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

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


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

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

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

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

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

Summary-BC Rail Site

Site Activities

- No batches discharged this reporting period.
- Weekly upstream and downstream taken by Triton.
- 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	Field Samples Taken	Discharge Rate (batch)	Discharge Volume (batch)	Results
No batches this reporting period							

*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	2024-11-25	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	2023-11-25	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 15-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.

Summary-Woodfibre

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Site Activities

- Weekly upstream, downstream and end of pipe taken by Triton. No Exceedances.

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	2024-11-25	Yes-Appendix C	392m ³
Woodfibre	2024-11-26	Yes-Appendix C*lab sample day	388m ³
Woodfibre	2024-11-27	Yes-Appendix C	375 m ³
Woodfibre	2024-11-28	Yes-Appendix C	435m ³
Woodfibre	2024-11-29	Yes-Appendix C	304m ³
Woodfibre	2024-11-30	Yes-Appendix C	426m ³
Woodfibre	2024-12-01	Yes-Appendix C	410m ³

*Max discharge is 1500m³/day

Exceedances

See above.

Receiving Environment Monitoring

The receiving environment is being monitored as outlined in the permit with additional oversight by the QP.

Table 4: Upstream Monitoring Information

Location	Date of Lab Sample	Real Time Monitored	Results
Woodfibre Upstream	2024-11-26	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix D.

Table 5: Downstream Monitoring Information

	Date of Lab Sample	Real Time Monitored	Results
Woodfibre Downstream	2024-11-26	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix D.

* Sondes set up to log temperature, specific conductivity, salinity (in PSU), pH, ORP, DO (mg/L), and turbidity (NTU) at 15-minute intervals.


Receiving Environment Monitoring Details



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- 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

TRITON		Sample ID	Revised and signed off by:	Furthest Shrub Plot, R. St. 30		SDQ US1 (2020-2021)	SDQ US1 (2020-2021)	Sample or value notes	BCWQ/FAL - Short Term	BCWQ/FAL - Long Term	BCWQ/MAL - Short Term	BCWQ/MAL - Long Term
LAB ID	Date Sampled	Time Sampled	Signature	SDQ US1 (2020-2021)	SDQ US1 (2020-2021)	Value	Value					
Analysis	Units	FAL-ST ¹²	FAL-LT ¹²	MAL-ST ¹²	MAL-LT ¹²	Value	Value					
Site Parameters												
pH (60)	pH units	8.5-9.0	8.5-9.0	7.0-8.7	7.0-8.7	7.13	7.13	Final pH > 4.5, no statistically significant decrease from background. No reduction in increase except in areas with visible flow or foam. Unexcavated areas measured within range of 8.2 to 9.0. Final pH > 4.5, no statistically significant increase from background. Final pH is BC Water Quality Guidelines for more information.			Unexcavated change within this range (for protection of native embryo development).	
Temperature (60)	°C	Max < 10 mm BKG 1°C ¹	-	Max < 10 mm BKG 1°C ¹	-	4.6	4.6	Guideline is species dependent. Short-term daily temperature guideline is 10°C to streams with upstream flow distribution. Refer to furthest > 10 mm BKG 1°C. Natural temperature range for the Streamflow Flow Rate is BC Water Quality Guidelines for more information. Final pH > 4.5, no statistically significant increase from background. Final pH is BC Water Quality Guidelines for more information. Guideline is 10°C to streams with upstream flow distribution. Refer to furthest > 10 mm BKG 1°C. Natural temperature range for the Streamflow Flow Rate is BC Water Quality Guidelines for more information.			Guideline for marine waters is based on natural ambient conditions. Max and min 1°C change from natural conditions. Natural temperature cycle characteristics of the site should not be directly compared to. Frequency by which water is heated. Final pH > 4.5, no statistically significant increase from background. Final pH is BC Water Quality Guidelines for more information. Refer to furthest > 10 mm BKG 1°C. Natural temperature range for the Streamflow Flow Rate is BC Water Quality Guidelines for more information.	
Conductivity (60)	µS/cm	-	-	-	-	38	40					
Turbidity (60)	NTU	Varies with background, see note. Guideline = 0.41	Varies with background, see note. Guideline = 0.41	Varies with background, see note. Guideline = 0.41	Varies with background, see note. Guideline = 0.41	1.41	1.71	Change from background of 0.41 NTU or any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 2 NTU at any one time for 30 days in clear flow. Note that a rolling average of US values over a 30-day period is required to properly calculate this guideline. US values = 1 * US guideline.	Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.
Dissolved Oxygen (60)	mg/L	Varies with life stage, see note	Varies with life stage, see note	Varies with life stage, see note	Varies with life stage, see note	-	-	Rated embryotoxic minimum 11 mg/L, all other life stages 9 mg/L. Refer to BC Water Quality Guidelines for more information.	Rated embryotoxic minimum 11 mg/L, all other life stages 9 mg/L. Refer to BC Water Quality Guidelines for more information.	Rated embryotoxic minimum 11 mg/L, all other life stages 9 mg/L. Refer to BC Water Quality Guidelines for more information.	Rated embryotoxic minimum 11 mg/L, all other life stages 9 mg/L. Refer to BC Water Quality Guidelines for more information.	Rated embryotoxic minimum 11 mg/L, all other life stages 9 mg/L. Refer to BC Water Quality Guidelines for more information.
General Parameters												
Total Chloride (60)	mg/L	-	-	-	-	101	101					
Total Chloride (60)	mg/L	-	-	-	-	43	42					
Total Suspended Solids (60)	mg/L	Varies with background, see note. Guideline = 28	Varies with background, see note. Guideline = 28	Varies with background, see note. Guideline = 28	Varies with background, see note. Guideline = 28	3.0	3.0	Change from background of 28 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 28 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 28 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	Change from background of 28 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters. Calculation: US value = 2 * US guideline.	
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	2.11	1.93					
Total Ammonia (60)	mg/L	-	-	-	-	10.7	10.2					
Total Ammonia (60)	mg/L	-	-	-	-	0.810	0.815					
Total Ammonia (60)	mg/L	-	-	-	-	0.000	0.000					
Chloride (60)	mg/L	600	150	< 10% from BKG	< 10% from BKG	2.94	2.33					
Fluoride (60)	mg/L	Varies with hardness. See note. Guideline = 0.60	Varies with hardness. See note. Guideline = 0.60	1.5	1.5	0.021	0.020	Guideline has interim status. Guideline is calculated using the following equation: Guideline = 1 - 0.015 * (US value / hardness) * 100	Guideline has interim status. Guideline is calculated using the following equation: Guideline = 1 - 0.015 * (US value / hardness) * 100	Guideline has interim status. Guideline is calculated using the following equation: Guideline = 1 - 0.015 * (US value / hardness) * 100	Guideline has interim status. Guideline is calculated using the following equation: Guideline = 1 - 0.015 * (US value / hardness) * 100	Guideline has interim status. Guideline is calculated using the following equation: Guideline = 1 - 0.015 * (US value / hardness) * 100
Nitrate (60)	mg/L	32.8	3	3	3	0.127	0.033					
Nitrate (60)	mg/L	Varies with hardness. See note. Guideline = 0.12	Varies with hardness. See note. Guideline = 0.12	-	-	0.002	0.010	Varies with hardness. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Varies with hardness. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Varies with hardness. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Varies with hardness. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Varies with hardness. Refer to Table 27.6 in BC WQ/FAL for guideline values.
Total Nitrogen (60)	mg/L	-	-	-	-	0.26	0.15					
Total Phosphorus (60)	mg/L	-	-	-	-	0.010	0.014					
Sulfate (60)	mg/L	-	-	-	-	5.08	4.94					
Total Metals												
Aluminum (60) Total	mg/L	-	-	-	-	0.204	0.117	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following equation: Guideline = 0.0015 * (hardness - 100) * (1 - 0.001 * DOC) + 0.001 * DOC. If hardness is < 100, the minimum hardness will be applied in the calculation.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following equation: Guideline = 0.0015 * (hardness - 100) * (1 - 0.001 * DOC) + 0.001 * DOC. If hardness is < 100, the minimum hardness will be applied in the calculation.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following equation: Guideline = 0.0015 * (hardness - 100) * (1 - 0.001 * DOC) + 0.001 * DOC. If hardness is < 100, the minimum hardness will be applied in the calculation.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following equation: Guideline = 0.0015 * (hardness - 100) * (1 - 0.001 * DOC) + 0.001 * DOC. If hardness is < 100, the minimum hardness will be applied in the calculation.	
Antimony (60) Total	mg/L	0.20	0.04	-	-	0.00010	0.00010					
Barium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Boron (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Cadmium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Calcium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Chromium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Copper (60) Total	mg/L	0.11	0.04	-	-	0.00010	0.00010					
Copper (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Lead (60) Total	mg/L	1	-	-	-	0.00010	0.00010					
Lead (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Manganese (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Manganese (60) Total	mg/L	Varies with hardness. Guideline = 0.715	Varies with hardness. Guideline = 0.715	-	-	0.014	0.008	Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = 0.00015 * (hardness - 100) + 0.00015. Guideline applies to samples with hardness 20-200 mg/L. Lowest value for guideline is 0.715 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information. The guideline is calculated using the following equation: Guideline = 0.00015 * (hardness - 100) + 0.00015. Guideline applies to samples with hardness 20-200 mg/L. Lowest value for guideline is 0.715 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information. The guideline is calculated using the following equation: Guideline = 0.00015 * (hardness - 100) + 0.00015. Guideline applies to samples with hardness 20-200 mg/L. Lowest value for guideline is 0.715 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information. The guideline is calculated using the following equation: Guideline = 0.00015 * (hardness - 100) + 0.00015. Guideline applies to samples with hardness 20-200 mg/L. Lowest value for guideline is 0.715 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	
Mercury (60) Total	mg/L	-	-	-	-	0.000000	0.000000					
Nickel (60) Total	mg/L	40	7.6	-	-	0.00010	0.00010					
Nickel (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Potassium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Potassium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Selenium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Selenium (60) Total	mg/L	0.02	-	-	-	0.00010	0.00010					
Silver (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Silver (60) Total	mg/L	Varies with hardness, see note. Guideline = 0.00010	Varies with hardness, see note. Guideline = 0.00010	0.003	0.003	0.00010	0.00010	Varies with hardness. Guideline is calculated using the following equation: Guideline = 0.00010 * (hardness - 100) + 0.00010. Hardness = 100, 0.00010.	Varies with hardness. Guideline is calculated using the following equation: Guideline = 0.00010 * (hardness - 100) + 0.00010. Hardness = 100, 0.00010.	Varies with hardness. Guideline is calculated using the following equation: Guideline = 0.00010 * (hardness - 100) + 0.00010. Hardness = 100, 0.00010.	Varies with hardness. Guideline is calculated using the following equation: Guideline = 0.00010 * (hardness - 100) + 0.00010. Hardness = 100, 0.00010.	
Sulfur (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Sulfur (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Thallium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Thallium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Vanadium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Vanadium (60) Total	mg/L	0.010	0.005	-	-	0.00010	0.00010					
Vanadium (60) Total	mg/L	-	-	-	-	0.00010	0.00010					
Zinc (60) Total	mg/L	-	-	-	-	0.005	0.005	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)
Zinc (60) Total	mg/L	-	-	-	-	0.005	0.005	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)	5-week field average = 0.00143 (US), 0.00137 (US)
Dissolved Metals												
Antimony (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Barium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Boron (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Calcium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Calcium (60) Dissolved	mg/L	Varies with hardness, see note. Guideline = 0.00010	Varies with hardness, see note. Guideline = 0.00010	-	-	0.000007	0.000001	Guideline is hardness dependent. Guideline is applicable to water hardness between 70 and 400 mg/L. Guideline is calculated using the following formula: Guideline = 0.00010 * (hardness - 100) + 0.00010. Lowest value for guideline is 0.00010 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline is hardness dependent. Guideline is applicable to water hardness between 70 and 400 mg/L. Guideline is calculated using the following formula: Guideline = 0.00010 * (hardness - 100) + 0.00010. Lowest value for guideline is 0.00010 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline is hardness dependent. Guideline is applicable to water hardness between 70 and 400 mg/L. Guideline is calculated using the following formula: Guideline = 0.00010 * (hardness - 100) + 0.00010. Lowest value for guideline is 0.00010 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	Guideline is hardness dependent. Guideline is applicable to water hardness between 70 and 400 mg/L. Guideline is calculated using the following formula: Guideline = 0.00010 * (hardness - 100) + 0.00010. Lowest value for guideline is 0.00010 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	
Calcium (60) Dissolved	mg/L	-	-	-	-	5.4	5.7	Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Dissolved Ca is a key indicator of water body sensitivity to acid inputs. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Dissolved Ca is a key indicator of water body sensitivity to acid inputs. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Dissolved Ca is a key indicator of water body sensitivity to acid inputs. Refer to Table 27.6 in BC WQ/FAL for guideline values.	Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Dissolved Ca is a key indicator of water body sensitivity to acid inputs. Refer to Table 27.6 in BC WQ/FAL for guideline values.	
Chromium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Copper (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Copper (60) Dissolved	mg/L	Guideline varies with other parameters, see note. Guideline = 0.002	Guideline varies with other parameters, see note. Guideline = 0.002	-	-	0.0003	0.0004	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	
Iron (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Iron (60) Dissolved	mg/L	Guideline varies with other parameters, see note. Guideline = 0.010	Guideline varies with other parameters, see note. Guideline = 0.010	-	-	0.00010	0.00010	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	
Nickel (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Nickel (60) Dissolved	mg/L	Guideline varies with other parameters, see note. Guideline = 0.010	Guideline varies with other parameters, see note. Guideline = 0.010	-	-	0.00010	0.00010	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness. Detailed model: Temperature, pH, DOC, hardness and conductance, total calcium, total magnesium, total sodium, total potassium, sulphate, nitrate, and nitrite.	
Potassium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Potassium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Selenium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Selenium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Sulfur (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Sulfur (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Vanadium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Vanadium (60) Dissolved	mg/L	-	-	-	-	0.00010	0.00010					
Zinc (60) Dissolved	mg/L	Varies with DOC and hardness. Guideline = 0.012	Varies with DOC and hardness. Guideline = 0.012	-	-	0.010	0.002	Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = 0.00010 * (DOC - 10) + 0.010. Lowest value for guideline is 0.010 mg/L. If DOC is below the DOC range, the minimum DOC will be applied in the calculation.	Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = 0.00010 * (DOC - 10) + 0.010. Lowest value for guideline is 0.010 mg/L. If DOC is below the DOC range, the minimum DOC will be applied in the calculation.	Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = 0.00010 * (DOC - 10) + 0.010. Lowest value for guideline is 0.010 mg/L. If DOC is below the DOC range, the		

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix B	B-3

BCR Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order	: VA24D1903		
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact	: [REDACTED]	Account Manager	: [REDACTED]
Address	: [REDACTED]	Address	: [REDACTED]
Telephone	: [REDACTED]	Telephone	: [REDACTED]
Project	: [REDACTED]	Date Samples Received	: 25-Nov-2024 14:20
PO	: [REDACTED]	Date Analysis Commenced	: 26-Nov-2024
C-O-C number	: [REDACTED]	Issue Date	: 02-Dec-2024 17:10
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA23-TRIT100-012		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Certificate of Analysis contains the following information:

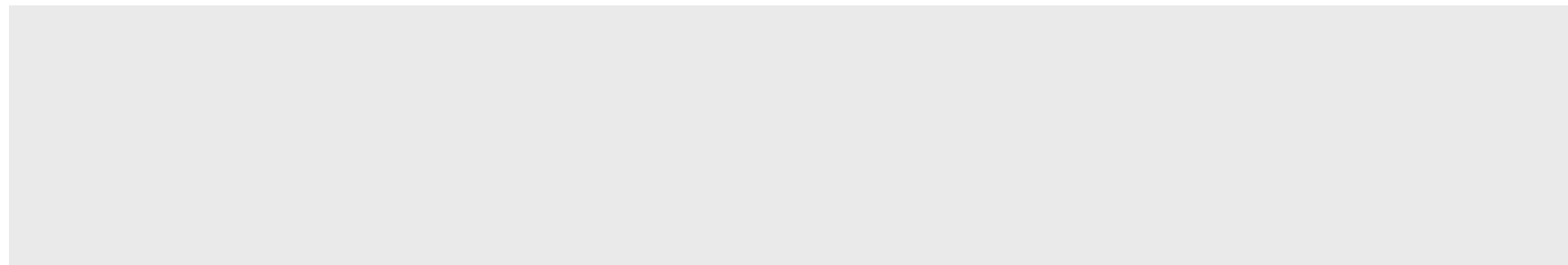
- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
--------------------	-----------------	------------------------------





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>
mg/L	milligrams per litre
µS/cm	microsiemens per centimetre
°C	degrees celsius
pH units	pH units
-	no 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.

Work Order : VA24D1903
Client : Triton Environmental Consultants Ltd.
Project : 11964





Analytical Results

Sub-Matrix: Water (Matrix: Water)					BCR US 1	BCR DS 1	----	----	----
Client sample ID					25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Client sampling date / time					25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----
					Result	Result	----	----	----
Field Tests									
Conductivity, field	----	EF001/VA	0.10	µS/cm	55.000	49.000	----	----	----
pH, field	----	EF001/VA	0.10	pH units	7.13	7.12	----	----	----
Temperature, field	----	EF001/VA	0.10	°C	4.60	4.80	----	----	----
Physical Tests									
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	17.9	17.1	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	19.1	18.1	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	43	42	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	<3.0	<3.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	15.7	15.2	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0389	0.0215	----	----	----
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	2.64	2.33	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.021	<0.020	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L	0.127	0.0833	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L	0.0022	<0.0010	----	----	----
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.226	0.150	----	----	----
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0216	0.0140	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	5.08	4.94	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.11	1.93	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	BCR US 1	BCR DS 1	----	----	----
					Client sampling date / time	25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----	
					Result	Result	----	----	----	
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	0.254	0.117	----	----	----	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00019	0.00015	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00991	0.00930	----	----	----	
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	0.0000127	0.0000068	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	6.32	6.05	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000021	0.000020	----	----	----	
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	0.00013	0.00010	----	----	----	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00131	0.00089	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.340	0.202	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000094	<0.000050	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	0.0010	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	0.798	0.734	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	BCR US 1	BCR DS 1	----	----	----
					Client sampling date / time	25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----	
					Result	Result	----	----	----	
Total Metals										
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0134	0.0106	----	----	----	
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	0.000558	0.000521	----	----	----	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	0.057	<0.050	----	----	----	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.687	0.623	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00104	0.00096	----	----	----	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	5.42	5.15	----	----	----	
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	3.02	2.58	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0414	0.0404	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	1.49	1.40	----	----	----	
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	----	----	----	
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	0.00550	0.00295	----	----	----	
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	0.000040	0.000039	----	----	----	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00145	0.00115	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	BCR US 1	BCR DS 1	----	----	----
					Client sampling date / time	25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----	
					Result	Result	----	----	----	
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0256	<0.0030	----	----	----	
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	0.0476	0.0491	----	----	----	
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	0.00013	0.00012	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00863	0.00880	----	----	----	
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	0.0000097	0.0000051	----	----	----	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	5.94	5.70	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	0.000018	0.000017	----	----	----	
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	0.00083	0.00074	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.175	0.136	----	----	----	
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	<0.0010	0.0010	----	----	----	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.738	0.696	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.0105	0.00942	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	BCR US 1	BCR DS 1	----	----	----
					Client sampling date / time	25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----	
					Result	Result	----	----	----	
Dissolved Metals										
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	0.000557	0.000563	----	----	----	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	0.682	0.622	----	----	----	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00100	0.00093	----	----	----	
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	4.95	4.65	----	----	----	
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	2.84	2.50	----	----	----	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0405	0.0403	----	----	----	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	1.35	1.41	----	----	----	
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	0.00056	0.00063	----	----	----	
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	0.000037	0.000035	----	----	----	
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	0.00104	0.00093	----	----	----	
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	0.0181	0.0022	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID		BCR US 1	BCR DS 1	----	----	----
					Client sampling date / time		25-Nov-2024 11:18	25-Nov-2024 12:09	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D1903-001	VA24D1903-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Dissolved Metals											
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----	----
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	Field	----	----	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	----	----	----	----	----
Speciated Metals											
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----	----
Chromium, trivalent [Cr III], total	16065-83-1	EC535/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA24D1903</p> <p>Client : Triton Environmental Consultants Ltd.</p> <p>Contact :</p> <p>Address :</p> <p>Telephone :</p> <p>Project :</p> <p>PO :</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 :</p> <p>Address :</p> <p>Telephone :</p> <p>Date Samples Received : 25-Nov-2024 14:20</p> <p>Issue Date : 02-Dec-2024 17:09</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) BCR DS 1	E298	25-Nov-2024	27-Nov-2024	28 days	2 days	✔	30-Nov-2024	28 days	5 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) BCR US 1	E298	25-Nov-2024	27-Nov-2024	28 days	2 days	✔	30-Nov-2024	28 days	5 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE BCR DS 1	E235.Br-L	25-Nov-2024	26-Nov-2024	28 days	1 days	✔	26-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE BCR US 1	E235.Br-L	25-Nov-2024	26-Nov-2024	28 days	1 days	✔	26-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE BCR DS 1	E235.Cl	25-Nov-2024	26-Nov-2024	28 days	1 days	✔	26-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE BCR US 1	E235.Cl	25-Nov-2024	26-Nov-2024	28 days	1 days	✔	26-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE BCR DS 1	E235.F	25-Nov-2024	26-Nov-2024	28 days	1 days	✔	26-Nov-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 BCR US 1	E235.F	25-Nov-2024	26-Nov-2024	28 days	1 days	✓	26-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE BCR DS 1	E235.NO3-L	25-Nov-2024	26-Nov-2024	3 days	1 days	✓	26-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE BCR US 1	E235.NO3-L	25-Nov-2024	26-Nov-2024	3 days	1 days	✓	26-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE BCR DS 1	E235.NO2-L	25-Nov-2024	26-Nov-2024	3 days	1 days	✓	26-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE BCR US 1	E235.NO2-L	25-Nov-2024	26-Nov-2024	3 days	1 days	✓	26-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE BCR DS 1	E235.SO4	25-Nov-2024	26-Nov-2024	28 days	1 days	✓	26-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE BCR US 1	E235.SO4	25-Nov-2024	26-Nov-2024	28 days	1 days	✓	26-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) BCR DS 1	E366	25-Nov-2024	27-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	3 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) BCR US 1	E366	25-Nov-2024	27-Nov-2024	28 days	2 days	✓	28-Nov-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) BCR DS 1	E372-U	25-Nov-2024	27-Nov-2024	28 days	2 days	✔	28-Nov-2024	28 days	3 days	✔
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) BCR US 1	E372-U	25-Nov-2024	27-Nov-2024	28 days	2 days	✔	28-Nov-2024	28 days	3 days	✔
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BCR DS 1	E509	25-Nov-2024	01-Dec-2024	28 days	6 days	✔	01-Dec-2024	28 days	6 days	✔
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid) BCR US 1	E509	25-Nov-2024	01-Dec-2024	28 days	6 days	✔	01-Dec-2024	28 days	6 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BCR DS 1	E421	25-Nov-2024	27-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	4 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid) BCR US 1	E421	25-Nov-2024	27-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	4 days	✔
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid) BCR DS 1	EF001	25-Nov-2024	----	----	----		29-Nov-2024	----	4 days	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid) BCR US 1	EF001	25-Nov-2024	----	----	----		29-Nov-2024	----	4 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass dissolved (sulfuric acid) BCR DS 1	E358-L	25-Nov-2024	27-Nov-2024	28 days	2 days	✔	27-Nov-2024	28 days	2 days	✔



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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (sulfuric acid) BCR US 1	E358-L	25-Nov-2024	27-Nov-2024	28 days	2 days	✓	27-Nov-2024	28 days	2 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE BCR DS 1	E290	25-Nov-2024	26-Nov-2024	14 days	1 days	✓	26-Nov-2024	14 days	1 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE BCR US 1	E290	25-Nov-2024	26-Nov-2024	14 days	1 days	✓	26-Nov-2024	14 days	1 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE BCR DS 1	E162	25-Nov-2024	----	----	----		29-Nov-2024	7 days	4 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE BCR US 1	E162	25-Nov-2024	----	----	----		29-Nov-2024	7 days	4 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE BCR DS 1	E160	25-Nov-2024	----	----	----		29-Nov-2024	7 days	4 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE BCR US 1	E160	25-Nov-2024	----	----	----		29-Nov-2024	7 days	4 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
Opaque HDPE - total (sodium hydroxide) BCR DS 1	E532	25-Nov-2024	----	----	----		26-Nov-2024	28 days	1 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
Opaque HDPE - total (sodium hydroxide) BCR US 1	E532	25-Nov-2024	----	----	----		26-Nov-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	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) BCR DS 1	E508	25-Nov-2024	30-Nov-2024	28 days	5 days	✔	30-Nov-2024	28 days	5 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) BCR US 1	E508	25-Nov-2024	30-Nov-2024	28 days	5 days	✔	30-Nov-2024	28 days	5 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) BCR DS 1	E420	25-Nov-2024	27-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	4 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) BCR US 1	E420	25-Nov-2024	27-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	4 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) BCR DS 1	E395	25-Nov-2024	----	----	----		26-Nov-2024	7 days	1 days	✔
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) BCR US 1	E395	25-Nov-2024	----	----	----		26-Nov-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	1783488	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1785233	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1783496	1	13	7.6	5.0	✔
Chloride in Water by IC	E235.Cl	1783495	1	13	7.6	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1791241	1	5	20.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1784725	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1785235	1	12	8.3	5.0	✔
Fluoride in Water by IC	E235.F	1783494	1	13	7.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1783492	1	14	7.1	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1783493	1	14	7.1	5.0	✔
Sulfate in Water by IC	E235.SO4	1783491	1	12	8.3	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1790674	1	14	7.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1783623	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1785236	1	11	9.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1785234	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1783895	1	3	33.3	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1783488	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1785233	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1783496	1	13	7.6	5.0	✔
Chloride in Water by IC	E235.Cl	1783495	1	13	7.6	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1791241	1	5	20.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1784725	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1785235	1	12	8.3	5.0	✔
Fluoride in Water by IC	E235.F	1783494	1	13	7.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1783492	1	14	7.1	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1783493	1	14	7.1	5.0	✔
Sulfate in Water by IC	E235.SO4	1783491	1	12	8.3	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1790674	1	14	7.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1783623	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1785236	1	11	9.0	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
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1785234	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1783895	1	3	33.3	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1783488	1	16	6.2	5.0	✔
Ammonia by Fluorescence	E298	1785233	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1783496	1	13	7.6	5.0	✔
Chloride in Water by IC	E235.Cl	1783495	1	13	7.6	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1791241	1	5	20.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1784725	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1785235	1	12	8.3	5.0	✔
Fluoride in Water by IC	E235.F	1783494	1	13	7.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1783492	1	14	7.1	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1783493	1	14	7.1	5.0	✔
Sulfate in Water by IC	E235.SO4	1783491	1	12	8.3	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1790674	1	14	7.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1783623	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1785236	1	11	9.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1785234	1	12	8.3	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1783895	1	3	33.3	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1785233	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1783496	1	13	7.6	5.0	✔
Chloride in Water by IC	E235.Cl	1783495	1	13	7.6	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1791241	1	5	20.0	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1784725	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1785235	1	12	8.3	5.0	✔
Fluoride in Water by IC	E235.F	1783494	1	13	7.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1783492	1	14	7.1	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1783493	1	14	7.1	5.0	✔
Sulfate in Water by IC	E235.SO4	1783491	1	12	8.3	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1790674	1	14	7.1	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1783623	1	20	5.0	5.0	✔
Total Nitrogen by Colourimetry	E366	1785236	1	11	9.0	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1785234	1	12	8.3	5.0	✔



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

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
<i>Analytical Methods</i>							
Matrix Spikes (MS) - Continued							
Total Sulfide by Colourimetry (Automated Flow)	E395	1783895	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 - Vancouver	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 - Vancouver	Water	APHA 3030B/6020A/EPA 7196A (mod)	Chromium (III)-Total is calculated as the difference between the total chromium and the total hexavalent chromium (Cr(VI)) results. The Limit of Reporting for Chromium (III) varies as a function of the test results.
Field pH,EC,Salinity, 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.

QUALITY CONTROL REPORT

Work Order : **VA24D1903**
Client : Triton Environmental Consultants Ltd.
Contact :
Address :

Telephone :
Project :
PO :
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 : 25-Nov-2024 14:20
Date Analysis Commenced : 26-Nov-2024
Issue Date : 02-Dec-2024 17:09

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
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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: 1783488)											
VA24D1881-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	113	113	0.177%	20%	----
Physical Tests (QC Lot: 1790007)											
FJ2403573-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	8.7	9.9	1.2	Diff <2x LOR	----
Physical Tests (QC Lot: 1790009)											
FJ2403573-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	290	302	4.05%	20%	----
Anions and Nutrients (QC Lot: 1783491)											
VA24D1849-015	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	<0.30	<0.30	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1783492)											
VA24D1849-015	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0253	0.0256	0.0003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1783493)											
VA24D1849-015	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1783494)											
VA24D1849-015	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	<0.020	<0.020	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1783495)											
VA24D1849-015	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1783496)											
VA24D1849-015	Anonymous	Bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785233)											
KS2404902-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0134	0.0133	0.00010	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785234)											
KS2404945-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0189	0.0190	0.00009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785236)											
VA24D1786-001	Anonymous	Nitrogen, total	7727-37-9	E366	3.00	mg/L	<3.00	<3.00	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1785235)											
KS2404945-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	3.23	3.38	0.15	Diff <2x LOR	----
Total Sulfides (QC Lot: 1783895)											
VA24D1903-001	BCR US 1	Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	<0.0015	0	Diff <2x LOR	----
Total Metals (QC Lot: 1783623)											
VA24D1850-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0359	0.0357	0.343%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00011	0.00011	0.000006	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: 1783623) - continued											
VA24D1850-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00046	0.00046	0.000002	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0546	0.0545	0.294%	20%	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.029	0.029	0.0003	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000145	0.0000117	0.0000028	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	64.7	65.9	1.87%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000018	0.000017	0.000001	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	0.00012	0.00001	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.000050	mg/L	0.00321	0.00316	0.00005	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.044	0.045	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	0.0024	0.0025	0.00006	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	3.40	3.41	0.283%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0116	0.0118	1.67%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.0123	0.0117	4.62%	20%	----
		Nickel, total	7440-02-0	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	0.784	0.782	0.152%	20%	----
		Rubidium, total	7440-17-7	E420	0.000020	mg/L	0.00036	0.00037	0.000008	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.128	0.127	0.662%	20%	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	4.46	4.38	1.86%	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	127	129	0.941%	20%	----
		Strontium, total	7440-24-6	E420	0.000020	mg/L	0.485	0.476	1.85%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	88.8	88.6	0.147%	20%	----
		Tellurium, total	13494-80-9	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00010	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	0.00165	mg/L	<0.00165	<0.00165	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000440	0.000460	4.43%	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: 1783623) - continued											
VA24D1850-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00118	0.00122	0.00004	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: 1790674)											
VA24D1876-008	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.000130	0.000127	1.79%	20%	----
Dissolved Metals (QC Lot: 1784725)											
FJ2403563-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0865	0.0841	2.81%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00031	0.00032	0.000005	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00027	0.00027	0.000006	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0410	0.0409	0.0889%	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	0.0000144	0.0000160	0.0000016	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	25.6	26.3	2.46%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000012	0.000011	0.0000009	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	0.00020	0.00020	0.000001	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00091	0.00094	0.00003	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.029	0.029	0.0004	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	0.0029	0.0029	0.00003	Diff <2x LOR	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	6.35	6.29	0.909%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00307	0.00322	4.70%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00118	0.00114	3.26%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00143	0.00148	0.00005	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	1.81	1.88	4.14%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00284	0.00297	4.35%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000281	0.000259	0.000022	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	2.18	2.18	0.201%	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	2.70	2.76	2.12%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.126	0.126	0.0282%	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: 1784725) - continued											
FJ2403563-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	5.76	5.36	7.02%	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	0.000479	0.000487	1.66%	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	0.0045	0.0046	0.0002	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: 1791241)											
VA24D1891-004	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1785004)											
FJ2403566-004	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: 1783488)						
Alkalinity, total (as CaCO3)	---	E290	1	mg/L	<1.0	---
Physical Tests (QCLot: 1790007)						
Solids, total suspended [TSS]	---	E160	3	mg/L	<3.0	---
Physical Tests (QCLot: 1790009)						
Solids, total dissolved [TDS]	---	E162	10	mg/L	<10	---
Anions and Nutrients (QCLot: 1783491)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	---
Anions and Nutrients (QCLot: 1783492)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1783493)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	---
Anions and Nutrients (QCLot: 1783494)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	---
Anions and Nutrients (QCLot: 1783495)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	---
Anions and Nutrients (QCLot: 1783496)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	---
Anions and Nutrients (QCLot: 1785233)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1785234)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	---
Anions and Nutrients (QCLot: 1785236)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	---
Organic / Inorganic Carbon (QCLot: 1785235)						
Carbon, dissolved organic [DOC]	---	E358-L	0.5	mg/L	<0.50	---
Total Sulfides (QCLot: 1783895)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	---
Total Metals (QCLot: 1783623)						
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: 1783623) - 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: 1790674)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1784725)						
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: 1784725) - 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: 1791241)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1785004)						
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: 1783488)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	104	85.0	115	----
Physical Tests (QCLot: 1790007)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	99.5	85.0	115	----
Physical Tests (QCLot: 1790009)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1783491)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	99.6	90.0	110	----
Anions and Nutrients (QCLot: 1783492)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	98.4	90.0	110	----
Anions and Nutrients (QCLot: 1783493)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1783494)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1783495)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	99.0	90.0	110	----
Anions and Nutrients (QCLot: 1783496)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	108	85.0	115	----
Anions and Nutrients (QCLot: 1785233)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	98.5	85.0	115	----
Anions and Nutrients (QCLot: 1785234)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	94.7	80.0	120	----
Anions and Nutrients (QCLot: 1785236)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	101	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1785235)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	104	80.0	120	----
Total Sulfides (QCLot: 1783895)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	101	80.0	120	----
Total Metals (QCLot: 1783623)									



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: 1783623) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	106	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	108	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	110	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	108	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	105	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	116	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	109	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	106	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	107	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	107	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	106	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	104	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	100	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	112	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	106	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	104	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	105	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	112	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	118	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	101	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	110	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	106	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	109	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	110	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	103	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	105	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	101	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	104	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: 1783623) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	107	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	102	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Total Metals (QCLot: 1790674)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	108	80.0	120	----
Dissolved Metals (QCLot: 1784725)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	100	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	106	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	100	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	92.4	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	94.3	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	100	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	96.0	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	106	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	103	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	100	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	102	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	96.3	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	101	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	107	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	99.9	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	95.0	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	99.4	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	104	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	95.8	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	102	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	106	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	91.0	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: 1784725) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	109	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	104	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	99.4	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	97.3	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	99.2	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	104	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	100	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	101	80.0	120	----
Speciated Metals (QCLot: 1785004)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	101	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: 1783491)										
VA24D1849-016	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1783492)										
VA24D1849-016	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.52 mg/L	2.5 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1783493)										
VA24D1849-016	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.511 mg/L	0.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1783494)										
VA24D1849-016	Anonymous	Fluoride	16984-48-8	E235.F	1.03 mg/L	1 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1783495)										
VA24D1849-016	Anonymous	Chloride	16887-00-6	E235.Cl	101 mg/L	100 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1783496)										
VA24D1849-016	Anonymous	Bromide	24959-67-9	E235.Br-L	0.506 mg/L	0.5 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1785233)										
KS2404903-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.124 mg/L	0.1 mg/L	124	75.0	125	----
Anions and Nutrients (QCLot: 1785234)										
KS2404945-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0491 mg/L	0.05 mg/L	98.2	70.0	130	----
Anions and Nutrients (QCLot: 1785236)										
VA24D1786-002	Anonymous	Nitrogen, total	7727-37-9	E366	0.387 mg/L	0.4 mg/L	96.8	70.0	130	----
Organic / Inorganic Carbon (QCLot: 1785235)										
KS2404945-002	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	4.99 mg/L	5 mg/L	99.9	70.0	130	----
Total Sulfides (QCLot: 1783895)										
VA24D1903-002	BCR DS 1	Sulfide, total (as S)	18496-25-8	E395	0.215 mg/L	0.2 mg/L	107	75.0	125	----
Total Metals (QCLot: 1783623)										
VA24D1850-002	Anonymous	Aluminum, total	7429-90-5	E420	0.189 mg/L	0.2 mg/L	94.6	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0204 mg/L	0.02 mg/L	102	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0202 mg/L	0.02 mg/L	101	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0379 mg/L	0.04 mg/L	94.8	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00917 mg/L	0.01 mg/L	91.7	70.0	130	----
		Boron, total	7440-42-8	E420	0.101 mg/L	0.1 mg/L	101	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00400 mg/L	0.004 mg/L	100	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.0100 mg/L	0.01 mg/L	100	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0382 mg/L	0.04 mg/L	95.6	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: 1783623) - continued										
VA24D1850-002	Anonymous	Cobalt, total	7440-48-4	E420	0.0191 mg/L	0.02 mg/L	95.6	70.0	130	----
		Copper, total	7440-50-8	E420	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	----
		Iron, total	7439-89-6	E420	1.91 mg/L	2 mg/L	95.5	70.0	130	----
		Lead, total	7439-92-1	E420	0.0186 mg/L	0.02 mg/L	92.8	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0876 mg/L	0.1 mg/L	87.6	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0188 mg/L	0.02 mg/L	94.1	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0375 mg/L	0.04 mg/L	93.7	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.52 mg/L	10 mg/L	95.2	70.0	130	----
		Potassium, total	7440-09-7	E420	3.94 mg/L	4 mg/L	98.6	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0190 mg/L	0.02 mg/L	94.9	70.0	130	----
		Selenium, total	7782-49-2	E420	ND mg/L	----	ND	70.0	130	----
		Silicon, total	7440-21-3	E420	9.48 mg/L	10 mg/L	94.8	70.0	130	----
		Silver, total	7440-22-4	E420	0.00391 mg/L	0.004 mg/L	97.8	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	ND mg/L	----	ND	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0429 mg/L	0.04 mg/L	107	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00366 mg/L	0.004 mg/L	91.6	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0196 mg/L	0.02 mg/L	97.8	70.0	130	----
		Tin, total	7440-31-5	E420	0.0199 mg/L	0.02 mg/L	99.6	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0384 mg/L	0.04 mg/L	96.0	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0192 mg/L	0.02 mg/L	96.0	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00381 mg/L	0.004 mg/L	95.2	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0992 mg/L	0.1 mg/L	99.2	70.0	130	----
		Zinc, total	7440-66-6	E420	0.382 mg/L	0.4 mg/L	95.6	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0419 mg/L	0.04 mg/L	105	70.0	130	----
Total Metals (QCLot: 1790674)										
VA24D1876-009	Anonymous	Mercury, total	7439-97-6	E508	ND mg/L	----	ND	70.0	130	----
Dissolved Metals (QCLot: 1784725)										
FJ2403563-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.189 mg/L	0.2 mg/L	94.4	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0208 mg/L	0.02 mg/L	104	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0214 mg/L	0.02 mg/L	107	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0394 mg/L	0.04 mg/L	98.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00877 mg/L	0.01 mg/L	87.7	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.094 mg/L	0.1 mg/L	94.0	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00399 mg/L	0.004 mg/L	99.7	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.0105 mg/L	0.01 mg/L	105	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0398 mg/L	0.04 mg/L	99.5	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0197 mg/L	0.02 mg/L	98.5	70.0	130	----



Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1784725) - continued										
FJ2403563-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.0196 mg/L	0.02 mg/L	98.3	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.96 mg/L	2 mg/L	97.9	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0195 mg/L	0.02 mg/L	97.3	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0992 mg/L	0.1 mg/L	99.2	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	0.0198 mg/L	0.02 mg/L	99.2	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0212 mg/L	0.02 mg/L	106	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0383 mg/L	0.04 mg/L	95.9	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	10.0 mg/L	10 mg/L	100	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	3.85 mg/L	4 mg/L	96.2	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0207 mg/L	0.02 mg/L	103	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0412 mg/L	0.04 mg/L	103	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.76 mg/L	10 mg/L	97.6	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00430 mg/L	0.004 mg/L	108	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	20.0 mg/L	20 mg/L	100	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0442 mg/L	0.04 mg/L	111	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00386 mg/L	0.004 mg/L	96.4	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0173 mg/L	0.02 mg/L	86.7	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0194 mg/L	0.02 mg/L	97.0	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0381 mg/L	0.04 mg/L	95.3	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00392 mg/L	0.004 mg/L	98.0	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.100 mg/L	0.1 mg/L	100	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.397 mg/L	0.4 mg/L	99.3	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0427 mg/L	0.04 mg/L	107	70.0	130	----
Dissolved Metals (QCLot: 1791241)										
VA24D1891-005	Anonymous	Mercury, dissolved	7439-97-6	E509	0.000101 mg/L	0 mg/L	101	70.0	130	----
Speciated Metals (QCLot: 1785004)										
FJ2403566-005	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.260 mg/L	0.25 mg/L	104	70.0	130	----

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix B	B-4

BCR Site Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-11-25-Chycoski-04C6E

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	11/25/2024	Location:	BC Rail Site
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.725514 -123.165123
Temperature(c):	Low -3 High 6	Permit:	AE 111824
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 12:09:00 **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?	Yes	Photo of COC with Lab Signature?	Yes
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Describe Logger Maintenance

Cleaned sonde

Photos



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



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

Photos



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

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



2024-11-25-Chycoski-04C6E

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

2024-11-25-Chycoski-C78B8

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge
Inspection Date:	11/25/2024	Location:	BC Rail Site
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.726866 -123.163912
Temperature(c):	Low -3 High 6	Permit:	AE 111824
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 11:18:00 **Flow Volume (visual):** low
Notes: Moved sonde US to 49.7270235 -123.1638495, and calibrated turbidity.
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

Moved sonde upstream to a spot with less underwater obstructions. Cleaned sonde and calibrated turbidity.

Photos



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



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

Photos



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



Photo: 4
Location: SQU US 1
Description: New sonde location



2024-11-25-Chycoski-C78B8

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

BCR Plant Site	SQU DS1						SQU US1 (Background)							
	Date	Temperature (c)	Specific Conductivity (µS/cm)	Salinity PSU	pH	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Date	Temperature (c)	Specific Conductivity (µS/cm)	Salinity PSU	pH	Dissolved Oxygen (mg/L)	Turbidity (NTU)
11/25/2024 0:00	7.3	38.6	5.3	11.2	0.0	0.0	0.0	11/25/2024 0:00	6.7	59.6	6.4	11.7	0.0	94.9
11/25/2024 0:15	7.3	38.4	5.3	11.2	0.0	0.0	0.0	11/25/2024 0:15	6.7	59.1	6.4	11.7	0.0	91.0
11/25/2024 0:30	7.3	38.4	5.3	11.2	0.0	0.0	18.3	11/25/2024 0:30	6.7	59.5	6.4	11.7	0.0	95.2
11/25/2024 0:45	7.2	38.2	5.3	11.2	0.0	0.0	0.0	11/25/2024 0:45	6.7	59.5	6.4	11.7	0.0	97.8
11/25/2024 1:00	5.3	38.2	0.0	7.3	11.2	0.0	0.0	11/25/2024 1:00	6.4	59.7	0.0	6.7	11.7	95.5
11/25/2024 1:15	5.3	38.0	0.0	7.2	11.2	0.0	0.0	11/25/2024 1:15	6.3	59.6	0.0	6.7	11.7	91.7
11/25/2024 1:30	5.3	38.5	0.0	7.3	11.2	0.0	0.0	11/25/2024 1:30	6.3	59.6	0.0	6.7	11.7	97.8
11/25/2024 1:45	5.3	38.4	0.0	7.3	11.2	0.0	0.0	11/25/2024 1:45	6.3	59.3	0.0	6.7	11.7	57.2
11/25/2024 2:00	5.3	38.3	0.0	7.3	11.2	0.0	0.0	11/25/2024 2:00	6.3	59.1	0.0	6.7	11.7	58.0
11/25/2024 2:15	5.3	38.1	0.0	7.3	11.2	0.0	0.0	11/25/2024 2:15	6.3	59.5	0.0	6.7	11.7	61.9
11/25/2024 2:30	5.2	38.0	0.0	7.3	11.2	0.0	0.0	11/25/2024 2:30	6.3	59.7	0.0	6.7	11.7	61.0
11/25/2024 2:45	5.2	38.0	0.0	7.3	11.2	0.0	0.0	11/25/2024 2:45	6.3	59.4	0.0	6.7	11.7	61.5
11/25/2024 3:00	5.2	39.2	0.0	7.3	11.2	0.0	0.0	11/25/2024 3:00	6.3	59.2	0.0	6.7	11.7	58.0
11/25/2024 3:15	5.2	38.1	0.0	7.3	11.2	0.0	0.0	11/25/2024 3:15	6.2	59.1	0.0	6.7	11.7	58.8
11/25/2024 3:30	5.2	38.1	0.0	7.3	11.2	0.0	0.0	11/25/2024 3:30	6.2	59.0	0.0	6.7	11.7	61.4
11/25/2024 3:45	5.2	38.0	0.0	7.3	11.2	0.5	0.0	11/25/2024 3:45	6.2	59.1	0.0	6.7	11.7	60.0
11/25/2024 4:00	5.1	38.2	0.0	7.3	11.2	0.0	0.0	11/25/2024 4:00	6.2	58.9	0.0	6.7	11.7	60.2
11/25/2024 4:15	5.1	38.0	0.0	7.3	11.2	0.0	0.0	11/25/2024 4:15	6.2	58.8	0.0	6.7	11.7	59.2
11/25/2024 4:30	5.1	38.0	0.0	7.3	11.2	0.0	0.0	11/25/2024 4:30	6.1	59.0	0.0	6.7	11.7	58.8
11/25/2024 4:45	5.1	38.0	0.0	7.3	11.3	0.0	0.0	11/25/2024 4:45	6.1	58.9	0.0	6.7	11.7	61.1
11/25/2024 5:00	5.1	38.2	0.0	7.3	11.2	0.0	0.0	11/25/2024 5:00	6.1	58.8	0.0	6.7	11.7	64.3
11/25/2024 5:15	5.0	38.3	0.0	7.3	11.3	0.0	0.0	11/25/2024 5:15	6.1	58.8	0.0	6.7	11.7	57.8
11/25/2024 5:30	5.0	38.4	0.0	7.3	11.2	0.0	0.0	11/25/2024 5:30	6.1	59.0	0.0	6.7	11.7	61.9
11/25/2024 5:45	5.0	38.8	0.0	7.3	11.2	0.0	0.0	11/25/2024 5:45	6.0	58.7	0.0	6.7	11.7	57.9
11/25/2024 6:00	5.0	37.9	0.0	7.3	11.2	0.0	0.0	11/25/2024 6:00	6.0	59.0	0.0	6.7	11.7	59.7
11/25/2024 6:15	5.0	39.4	0.0	7.2	11.2	0.0	0.0	11/25/2024 6:15	6.0	59.1	0.0	6.7	11.7	59.4
11/25/2024 6:30	4.9	38.5	0.0	7.2	11.3	0.0	0.0	11/25/2024 6:30	6.0	58.8	0.0	6.7	11.7	57.8
11/25/2024 6:45	4.9	38.3	0.0	7.2	11.3	0.0	0.0	11/25/2024 6:45	6.0	59.3	0.0	6.7	11.8	60.4
11/25/2024 7:00	4.9	38.9	0.0	7.2	11.2	0.0	0.0	11/25/2024 7:00	5.9	59.2	0.0	6.7	11.7	61.5
11/25/2024 7:15	4.9	39.2	0.0	7.2	11.2	0.9	0.0	11/25/2024 7:15	5.9	59.0	0.0	6.7	11.8	62.6
11/25/2024 7:30	5.0	40.8	0.0	7.1	11.1	0.2	0.0	11/25/2024 7:30	5.9	59.3	0.0	6.7	11.8	64.1
11/25/2024 7:45	4.9	39.8	0.0	7.1	11.2	1.6	0.0	11/25/2024 7:45	5.9	59.1	0.0	6.7	11.8	56.7
11/25/2024 8:00	5.0	41.7	0.0	7.1	10.9	0.0	0.0	11/25/2024 8:00	5.8	59.6	0.0	6.7	11.8	55.1
11/25/2024 8:15	4.9	40.5	0.0	7.1	11.1	0.4	0.0	11/25/2024 8:15	5.8	59.7	0.0	6.7	11.8	56.3
11/25/2024 8:30	4.9	41.6	0.0	7.1	11.2	0.2	0.2	11/25/2024 8:30	5.8	59.5	0.0	6.7	11.8	60.5
11/25/2024 8:45	4.8	40.5	0.0	7.0	11.2	0.0	0.0	11/25/2024 8:45	5.8	60.1	0.0	6.7	11.8	60.1
11/25/2024 9:00	5.0	45.3	0.0	7.0	11.0	0.1	0.0	11/25/2024 9:00	5.8	59.7	0.0	6.7	11.8	66.3
11/25/2024 9:15	4.9	41.8	0.0	7.0	11.1	0.5	0.0	11/25/2024 9:15	5.8	60.0	0.0	6.7	11.8	57.4
11/25/2024 9:30	4.8	40.1	0.0	7.1	11.2	0.0	0.0	11/25/2024 9:30	5.8	60.2	0.0	6.7	11.8	60.6
11/25/2024 9:45	4.7	39.9	0.0	7.1	11.3	0.0	0.0	11/25/2024 9:45	5.8	59.9	0.0	6.7	11.8	57.5
11/25/2024 10:00	4.7	39.3	0.0	7.2	11.3	0.0	0.0	11/25/2024 10:00	5.8	60.4	0.0	6.7	11.8	60.9
11/25/2024 10:15	4.8	40.6	0.0	7.2	11.2	0.1	0.0	11/25/2024 10:15	5.8	60.7	0.0	6.7	11.8	62.5
11/25/2024 10:30	4.7	39.5	0.0	7.1	11.3	0.0	0.0	11/25/2024 10:30	5.8	60.9	0.0	6.7	11.8	61.8
11/25/2024 10:45	4.7	39.2	0.0	7.3	11.4	0.0	0.0	11/25/2024 10:45	5.8	61.1	0.0	6.7	11.8	57.8
11/25/2024 11:00	4.7	39.8	0.0	7.2	11.4	0.0	0.0	11/25/2024 11:00	5.8	61.5	0.0	6.7	11.9	42.8
11/25/2024 11:15	4.7	33.2	0.0	7.3	11.4	0.0	0.0	11/25/2024 11:15	5.3	4.8	0.0	6.7	12.5	12.8
11/25/2024 11:30	4.7	33.0	0.0	7.3	11.4	0.0	0.0	11/25/2024 11:30	4.9	5.1	0.0	6.8	12.7	12.8
11/25/2024 11:45	4.7	38.8	0.0	7.3	11.4	0.0	0.0	11/25/2024 11:45	4.8	4.8	0.0	6.8	12.7	13.2
11/25/2024 12:00	4.8	36.4	0.0	7.4	11.4	0.0	0.0	11/25/2024 12:00	5.1	5.1	0.0	6.8	12.6	11.9
11/25/2024 12:15	4.8	36.2	0.0	7.4	11.5	0.0	0.0	11/25/2024 12:15						
11/25/2024 12:30	4.8	36.4	0.0	7.4	11.5	2.6	0.0	11/25/2024 12:30						
11/25/2024 12:45	4.8	36.3	0.0	7.4	11.5	0.0	0.0	11/25/2024 12:45	6.4	57.7	0.0	6.8	11.8	0.0
11/25/2024 13:00	4.8	38.7	0.0	7.4	11.5	0.0	0.0	11/25/2024 13:00	6.0	58.9	0.0	6.5	12.0	0.0
11/25/2024 13:15	4.8	38.3	0.0	7.4	11.5	0.0	0.0	11/25/2024 13:15	5.9	58.8	0.0	6.5	12.0	0.0
11/25/2024 13:30	4.8	38.3	0.0	7.4	11.5	0.0	0.0	11/25/2024 13:30	5.9	59.7	0.0	6.6	12.0	0.0
11/25/2024 13:45	4.8	38.7	0.0	7.4	11.5	0.0	0.0	11/25/2024 13:45	6.0	60.7	0.0	6.6	12.0	0.0
11/25/2024 14:00	4.8	39.0	0.0	7.3	11.5	0.0	0.0	11/25/2024 14:00	6.0	60.7	0.0	6.7	12.0	0.0
11/25/2024 14:15	4.9	39.1	0.0	7.4	11.5	0.0	0.0	11/25/2024 14:15	6.0	61.5	0.0	6.7	12.0	0.0
11/25/2024 14:30	4.9	39.4	0.0	7.4	11.5	0.0	0.0	11/25/2024 14:30	6.1	60.8	0.0	6.7	12.0	0.0
11/25/2024 14:45	4.9	39.5	0.0	7.4	11.5	0.0	0.0	11/25/2024 14:45	6.1	62.3	0.0	6.7	12.0	0.0
11/25/2024 15:00	4.9	40.3	0.0	7.5	11.5	21.9	0.0	11/25/2024 15:00	6.1	61.9	0.0	6.7	12.0	0.0
11/25/2024 15:15	4.9	40.2	0.0	7.5	11.5	0.0	0.0	11/25/2024 15:15	6.1	63.9	0.0	6.7	12.0	0.0
11/25/2024 15:30	4.9	41.1	0.0	7.4	11.5	0.0	0.0	11/25/2024 15:30	6.1	64.9	0.0	6.7	12.0	0.0
11/25/2024 15:45	4.9	42.0	0.0	7.4	11.5	0.0	0.0	11/25/2024 15:45	6.1	67.1	0.0	6.7	11.9	0.0
11/25/2024 16:00	4.9	42.3	0.0	7.4	11.5	0.0	0.0	11/25/2024 16:00	6.0	66.4	0.0	6.7	11.9	0.0
11/25/2024 16:15	4.8	41.9	0.0	7.4	11.5	0.0	0.0	11/25/2024 16:15	6.0	66.2	0.0	6.7	11.9	0.0
11/25/2024 16:30	4.8	42.5	0.0	7.4	11.5	0.0	0.0	11/25/2024 16:30	6.0	67.8	0.0	6.7	11.9	0.0
11/25/2024 16:45	4.8	42.7	0.0	7.4	11.4	0.0	0.0	11/25/2024 16:45	5.9	67.4	0.0	6.7	11.8	0.0
11/25/2024 17:00	4.7	42.6	0.0	7.4	11.4	0.0	0.0	11/25/2024 17:00	5.9	66.0	0.0	6.7	11.8	0.0
11/25/2024 17:15	4.7	41.5	0.0	7.4	11.4	0.0	0.0	11/25/2024 17:15	5.8	63.9	0.0	6.7	11.8	0.0
11/25/2024 17:30	4.7	41.2	0.0	7.3	11.4	0.0	0.0	11/25/2024 17:30	5.8	63.6	0.0	6.6	11.8	0.0
11/25/2024 17:45	4.6	41.4	0.0	7.3	11.4	0.0	0.0	11/25/2024 17:45	5.8	65.0	0.0	6.5	11.6	0.0
11/25/2024 18:00	4.6	41.1	0.0	7.3	11.4	0.0	0.0	11/25/2024 18:00	5.8	64.0	0.0	6.4	11.6	0.0
11/25/2024 18:15	4.6	40.8	0.0	7.3	11.4	0.0	0.0	11/25/2024 18:15	5.7	63.0	0.0	6.5	11.8	0.0
11/25/2024 18:30	4.6	42.3	0.0	7.3	11.3	0.3	0.0	11/25/2024 18:30	5.3	3.4	0.0	6.7	12.6	0.0
11/25/2024 18:45	4.9	50.8	0.0	7.1	10.9	16.1	0.0	11/25/2024 18:45	4.7	4.4	0.0	6.7	12.7	0.0
11/25/2024 19:00	5.6	73.0	0.0	6.7	9.0	12.1	0.0	11/25/2024 19:00	4.3	4.6	0.0	6.7	12.9	0.0
11/25/2024 19:15	5.5	74.1	0.0	6.6	8.7	8.8	0.0	11/25/2024 19:15	3.9	4.8	0.0	6.5	13.0	0.0
11/25/2024 19:30	5.4	78.9	0.0	6.6	10.6	1567.7	0.0	11/25/2024 19:30	3.8	4.9	0.0	6.5	13.0	0

11/25/2024 21:45	4.4	43.2	0.0	7.0	11.2	0.0	11/25/2024 21:45	2.7	5.2	0.0	6.8	13.5	0.0
11/25/2024 22:00	4.3	41.8	0.0	7.1	11.3	0.0	11/25/2024 22:00	3.9	4.8	0.0	6.7	13.2	0.0
11/25/2024 22:15	4.3	42.1	0.0	7.2	11.4	0.0	11/25/2024 22:15	5.2	29.1	0.0	6.6	12.0	0.0
11/25/2024 22:30	4.3	41.8	0.0	7.2	11.4	0.0	11/25/2024 22:30	5.4	63.8	0.0	6.6	11.9	0.0
11/25/2024 22:45	4.3	41.1	0.0	7.3	11.4	0.0	11/25/2024 22:45	5.4	64.0	0.0	6.6	11.9	0.0
11/25/2024 23:00	4.2	40.7	0.0	7.3	11.5	0.0	11/25/2024 23:00	5.4	63.7	0.0	6.6	11.9	0.0
11/25/2024 23:15	4.2	41.2	0.0	7.3	11.5	0.0	11/25/2024 23:15	5.4	63.6	0.0	6.6	11.8	0.0
11/25/2024 23:30	4.2	40.7	0.0	7.3	11.5	0.0	11/25/2024 23:30	5.3	63.6	0.0	6.6	11.9	0.0
11/25/2024 23:45	4.2	40.4	0.0	7.3	11.5	0.0	11/25/2024 23:45	5.3	63.2	0.0	6.6	11.9	0.0
11/26/2024 0:00	4.2	40.1	0.0	7.3	11.5	0.0	11/26/2024 0:00	5.3	63.5	0.0	6.5	11.9	0.0
11/26/2024 0:15	4.1	39.8	0.0	7.3	11.5	0.0	11/26/2024 0:15	5.3	62.9	0.0	6.6	11.9	0.0
11/26/2024 0:30	4.1	39.7	0.0	7.3	11.5	0.0	11/26/2024 0:30	5.3	63.5	0.0	6.5	11.8	0.0
11/26/2024 0:45	4.1	39.5	0.0	7.3	11.5	0.0	11/26/2024 0:45	5.3	62.8	0.0	6.5	11.9	0.0
11/26/2024 1:00	4.1	39.5	0.0	7.3	11.6	0.0	11/26/2024 1:00	5.3	63.3	0.0	6.5	11.8	0.0
11/26/2024 1:15	4.1	39.1	0.0	7.3	11.6	0.0	11/26/2024 1:15	5.2	62.3	0.0	6.5	11.9	0.0
11/26/2024 1:30	4.1	38.9	0.0	7.3	11.6	0.0	11/26/2024 1:30	5.2	62.0	0.0	6.5	11.9	0.0
11/26/2024 1:45	4.0	39.0	0.0	7.3	11.6	0.0	11/26/2024 1:45	5.2	62.4	0.0	6.5	11.9	0.0
11/26/2024 2:00	4.0	38.8	0.0	7.3	11.6	0.0	11/26/2024 2:00	5.2	61.7	0.0	6.5	12.0	0.0
11/26/2024 2:15	4.0	39.3	0.0	7.3	11.6	0.0	11/26/2024 2:15	5.2	61.7	0.0	6.5	12.0	0.0
11/26/2024 2:30	4.1	40.0	0.0	7.4	11.6	0.0	11/26/2024 2:30	5.1	62.7	0.0	6.6	12.0	0.0
11/26/2024 2:45	4.0	40.9	0.0	7.4	11.6	0.0	11/26/2024 2:45	5.1	63.6	0.0	6.6	12.0	3.9
11/26/2024 3:00	4.0	42.0	0.0	7.4	11.6	0.0	11/26/2024 3:00	5.1	64.6	0.0	6.6	12.0	0.0
11/26/2024 3:15	4.0	42.5	0.0	7.3	11.6	0.0	11/26/2024 3:15	5.1	64.6	0.0	6.7	12.0	0.0
11/26/2024 3:30	4.0	43.4	0.0	7.4	11.6	0.0	11/26/2024 3:30	5.1	65.9	0.0	6.7	12.0	0.0
11/26/2024 3:45	4.0	43.5	0.0	7.4	11.6	0.0	11/26/2024 3:45	5.1	65.7	0.0	6.7	12.1	0.0
11/26/2024 4:00	4.0	43.5	0.0	7.4	11.6	0.0	11/26/2024 4:00	5.1	65.7	0.0	6.7	12.1	0.0
11/26/2024 4:15	3.9	43.3	0.0	7.4	11.6	0.0	11/26/2024 4:15	5.0	65.6	0.0	6.7	12.1	0.0
11/26/2024 4:30	3.9	43.1	0.0	7.4	11.6	0.0	11/26/2024 4:30	5.0	65.3	0.0	6.7	12.0	0.0
11/26/2024 4:45	3.9	42.8	0.0	7.4	11.6	0.0	11/26/2024 4:45	5.0	65.6	0.0	6.7	12.0	0.0
11/26/2024 5:00	3.9	42.6	0.0	7.3	11.6	0.0	11/26/2024 5:00	5.0	64.9	0.0	6.7	12.0	0.0
11/26/2024 5:15	3.8	42.1	0.0	7.4	11.7	0.0	11/26/2024 5:15	5.0	64.8	0.0	6.6	12.0	0.0
11/26/2024 5:30	3.8	42.4	0.0	7.4	11.6	0.0	11/26/2024 5:30	5.0	65.1	0.0	6.6	11.9	0.0
11/26/2024 5:45	3.8	41.9	0.0	7.4	11.6	0.0	11/26/2024 5:45	5.0	65.9	0.0	6.5	11.9	0.0
11/26/2024 6:00	3.8	42.4	0.0	7.4	11.6	0.0	11/26/2024 6:00	5.0	65.3	0.0	6.5	11.9	0.0
11/26/2024 6:15	3.8	41.9	0.0	7.4	11.6	0.0	11/26/2024 6:15	4.9	64.6	0.0	6.6	12.0	0.0
11/26/2024 6:30	3.8	42.7	0.0	7.4	11.6	0.0	11/26/2024 6:30	4.9	63.9	0.0	6.6	12.1	0.0
11/26/2024 6:45	3.7	42.4	0.0	7.4	11.6	0.0	11/26/2024 6:45	4.8	60.6	0.0	6.7	12.1	0.0
11/26/2024 7:00	3.8	43.2	0.0	7.3	11.5	0.0	11/26/2024 7:00	4.2	3.8	0.0	6.8	13.0	0.0
11/26/2024 7:15	3.7	43.1	0.0	7.3	11.6	3.4	11/26/2024 7:15	3.8	4.8	0.0	6.8	13.1	0.0
11/26/2024 7:30	4.1	51.1	0.0	7.1	10.8	0.0	11/26/2024 7:30	3.2	5.2	0.0	6.7	13.3	0.0
11/26/2024 7:45	4.3	53.5	0.0	6.9	10.6	0.0	11/26/2024 7:45	2.7	5.2	0.0	6.7	13.5	0.0
11/26/2024 8:00	4.3	60.4	0.0	6.7	11.3	13.0	11/26/2024 8:00	2.3	5.5	0.0	6.8	13.6	0.0
11/26/2024 8:15	4.4	41.0	0.0	6.7	12.0	188.3	11/26/2024 8:15	1.8	5.8	0.0	6.8	13.8	0.0
11/26/2024 8:30	4.5	38.8	0.0	6.7	12.0	0.0	11/26/2024 8:30	1.5	6.0	0.0	6.8	13.9	0.0
11/26/2024 8:45	4.6	11.9	0.0	6.8	12.0	0.0	11/26/2024 8:45	1.3	5.4	0.0	6.9	14.0	0.0
11/26/2024 9:00	4.8	0.1	0.0	6.9	11.9	0.0	11/26/2024 9:00	1.2	5.8	0.0	6.9	14.1	0.0
11/26/2024 9:15	4.9	0.1	0.0	7.2	11.9	0.0	11/26/2024 9:15	1.2	6.8	0.0	6.9	14.1	0.0
11/26/2024 9:30	4.9	0.1	0.0	7.3	11.9	0.0	11/26/2024 9:30	1.2	6.8	0.0	6.9	14.1	0.0
11/26/2024 9:45	5.3	0.1	0.0	7.3	11.7	0.0	11/26/2024 9:45	1.2	6.5	0.0	6.9	14.1	0.0
11/26/2024 10:00	5.7	1.7	0.0	6.9	11.6	0.0	11/26/2024 10:00	1.2	6.5	0.0	7.0	14.1	0.0
11/26/2024 10:15	6.0	13.6	0.0	6.7	11.5	0.0	11/26/2024 10:15	1.3	6.7	0.0	7.0	14.1	0.0
11/26/2024 10:30	4.8	45.3	0.0	6.7	12.0	32.2	11/26/2024 10:30	1.3	6.7	0.0	7.0	14.1	0.0
11/26/2024 10:45	4.3	53.7	0.0	6.9	10.8	0.0	11/26/2024 10:45	1.4	6.3	0.0	7.0	14.0	0.0
11/26/2024 11:00	4.0	48.8	0.0	6.9	11.0	0.0	11/26/2024 11:00	1.5	6.3	0.0	7.0	14.0	0.0
11/26/2024 11:15	3.7	45.9	0.0	7.1	11.5	0.0	11/26/2024 11:15	1.8	6.4	0.0	7.0	13.9	0.0
11/26/2024 11:30	3.7	44.6	0.0	7.2	11.6	0.0	11/26/2024 11:30	4.3	31.5	0.0	6.7	12.4	0.0
11/26/2024 11:45	3.7	44.6	0.0	7.3	11.6	0.0	11/26/2024 11:45	4.8	68.3	0.0	6.7	12.2	0.0
11/26/2024 12:00	3.7	44.4	0.0	7.3	11.6	0.0	11/26/2024 12:00	4.8	67.8	0.0	6.7	12.1	0.0
11/26/2024 12:15	3.7	44.2	0.0	7.3	11.7	0.0	11/26/2024 12:15	4.9	68.2	0.0	6.6	12.1	0.0
11/26/2024 12:30	3.7	44.2	0.0	7.3	11.7	0.0	11/26/2024 12:30	4.9	67.2	0.0	6.7	12.2	0.0
11/26/2024 12:45	3.8	43.8	0.0	7.3	11.7	0.0	11/26/2024 12:45	4.9	67.1	0.0	6.7	12.2	0.0
11/26/2024 13:00	3.8	43.9	0.0	7.3	11.7	0.0	11/26/2024 13:00	5.0	67.7	0.0	6.7	12.2	0.0
11/26/2024 13:15	3.8	44.4	0.0	7.4	11.7	0.0	11/26/2024 13:15	5.0	70.0	0.0	6.7	12.1	0.0
11/26/2024 13:30	3.9	44.9	0.0	7.3	11.7	0.0	11/26/2024 13:30	5.0	68.7	0.0	6.7	12.1	0.0
11/26/2024 13:45	3.9	44.4	0.0	7.3	11.7	0.0	11/26/2024 13:45	5.0	67.6	0.0	6.8	12.2	0.0
11/26/2024 14:00	3.9	43.8	0.0	7.3	11.7	0.0	11/26/2024 14:00	5.0	66.8	0.0	6.7	12.2	0.0
11/26/2024 14:15	3.9	43.8	0.0	7.3	11.8	0.0	11/26/2024 14:15	5.1	67.4	0.0	6.7	12.2	0.0
11/26/2024 14:30	3.9	43.6	0.0	7.4	11.8	0.0	11/26/2024 14:30	5.1	66.4	0.0	6.8	12.2	0.0
11/26/2024 14:45	3.9	43.2	0.0	7.4	11.8	0.0	11/26/2024 14:45	5.1	66.9	0.0	6.8	12.2	0.0
11/26/2024 15:00	3.9	43.4	0.0	7.4	11.8	0.0	11/26/2024 15:00	5.1	66.0	0.0	6.8	12.3	0.0
11/26/2024 15:15	3.9	43.1	0.0	7.4	11.8	0.0	11/26/2024 15:15	5.1	67.5	0.0	6.8	12.3	0.0
11/26/2024 15:30	4.0	43.7	0.0	7.4	11.8	0.0	11/26/2024 15:30	5.2	69.2	0.0	6.8	12.2	0.0
11/26/2024 15:45	4.0	44.5	0.0	7.4	11.8	0.0	11/26/2024 15:45	5.2	70.2	0.0	6.8	12.2	0.0
11/26/2024 16:00	4.0	44.9	0.0	7.4	11.8	0.0	11/26/2024 16:00	5.1	70.2	0.0	6.8	12.2	0.0
11/26/2024 16:15	3.9	45.5	0.0	7.4	11.7	0.0	11/26/2024 16:15	5.2	72.4	0.0	6.8	12.2	0.0
11/26/2024 16:30	3.9	46.8	0.0	7.4	11.7	0.0	11/26/2024 16:30	5.1	73.8	0.0	6.7	12.1	0.0
11/26/2024 16:45	3.9	47.1	0.0	7.4	11.7	0.0	11/26/2024 16:45	5.1	73.8	0.0	6.7	12.1	0.0
11/26/2024 17:00	3.8	47.0	0.0	7.3	11.7	0.0	11/26/2024 17:00	5.0	72.7	0.0	6.7	12.1	0.0
11/26/2024 17:15	3.8	46.3	0.0	7.4	11.7	0.0	11/26/2024 17:15	5.0	71.6	0.0	6.7	12.1	0.0
11/26/2024 17:30	3.7	45.8	0.0	7.3	11.7	0.0	11/26/2024 17:30	5.0	71.4	0.0	6.5	11.9	0.0
11/26/2024 17:45	3.7	45.2	0.0	7.3	11.6	0.0	11/26/2024 17:45	4.9	69.4	0.0	6.6	12.0	0.0
11/26/2024 18:00	3.7	45.9	0.0	7.3	11.6	0.0	11/26/2024 18:00	4.8	9.0	0.0	6.6	12.1	1.3
11/26/2024 18:15	4.1	54.4	0.0	7.1	10.7	10.0	11/26/2024 18:15	4.4	3.6	0.0	6.8	13.0	0.0
11/26/2024 18:30	7.3	64.3	0.0	6.5	11.0	0.0	11/26/2024 18:30	3.9	4.6	0.0	6.8	13.1	0.0
11/26/2024 18:45	5.9	14.9	0.0	6.7	11.6	0.0	11/26/2024 18:45	3.6					

11/26/2024 20:30	4.9	11.0	0.0	6.8	11.9	0.0	11/26/2024 20:30	3.1	5.7	0.0	6.9	13.4	0.0
11/26/2024 20:45	5.0	10.9	0.0	6.8	11.9	0.0	11/26/2024 20:45	3.1	5.1	0.0	6.8	13.4	0.0
11/26/2024 21:00	5.0	10.8	0.0	6.8	11.9	0.0	11/26/2024 21:00	3.1	5.4	0.0	6.8	13.4	0.0
11/26/2024 21:15	5.1	10.7	0.0	6.8	11.9	0.0	11/26/2024 21:15	3.1	5.6	0.0	6.8	13.4	0.0
11/26/2024 21:30	5.1	10.6	0.0	6.8	11.8	0.0	11/26/2024 21:30	3.2	5.7	0.0	6.8	13.4	0.0
11/26/2024 21:45	5.2	10.5	0.0	6.8	11.8	0.0	11/26/2024 21:45	3.3	5.2	0.0	6.8	13.4	0.0
11/26/2024 22:00	5.2	10.4	0.0	6.8	11.8	0.0	11/26/2024 22:00	3.2	5.3	0.0	7.0	13.4	0.0
11/26/2024 22:15	5.2	10.3	0.0	6.8	11.8	0.0	11/26/2024 22:15	3.2	5.6	0.0	6.9	13.4	0.0
11/26/2024 22:30	5.3	10.2	0.0	6.8	11.8	0.0	11/26/2024 22:30	3.2	5.7	0.0	6.9	13.4	0.0
11/26/2024 22:45	5.3	10.1	0.0	6.8	11.8	0.0	11/26/2024 22:45	3.3	5.1	0.0	6.9	13.4	0.0
11/26/2024 23:00	5.3	10.0	0.0	6.8	11.8	0.0	11/26/2024 23:00	3.3	5.3	0.0	6.8	13.4	0.0
11/26/2024 23:15	5.3	9.9	0.0	6.8	11.7	0.0	11/26/2024 23:15	3.2	5.5	0.0	6.8	13.4	0.0
11/26/2024 23:30	5.3	9.9	0.0	6.8	11.8	0.0	11/26/2024 23:30	3.2	5.6	0.0	6.8	13.4	0.0
11/26/2024 23:45	5.4	9.8	0.0	6.8	11.7	0.0	11/26/2024 23:45	3.2	5.3	0.0	6.8	13.4	0.0
11/27/2024 0:00	5.3	9.7	0.0	6.8	11.8	0.0	11/27/2024 0:00	3.2	5.1	0.0	7.0	13.4	0.0
11/27/2024 0:15	5.4	9.6	0.0	6.8	11.8	0.0	11/27/2024 0:15	3.1	5.2	0.0	7.0	13.4	0.0
11/27/2024 0:30	5.4	9.6	0.0	6.8	11.8	0.0	11/27/2024 0:30	3.2	5.4	0.0	7.0	13.4	0.0
11/27/2024 0:45	5.4	9.5	0.0	6.8	11.8	0.0	11/27/2024 0:45	3.2	5.1	0.0	7.0	13.4	0.0
11/27/2024 1:00	5.4	9.5	0.0	6.8	11.7	0.0	11/27/2024 1:00	3.2	5.0	0.0	6.9	13.4	0.0
11/27/2024 1:15	5.3	9.4	0.0	6.8	11.7	0.0	11/27/2024 1:15	3.2	5.2	0.0	6.9	13.4	0.0
11/27/2024 1:30	5.4	9.3	0.0	6.8	11.8	0.0	11/27/2024 1:30	3.2	5.4	0.0	6.9	13.4	0.0
11/27/2024 1:45	5.4	9.3	0.0	6.8	11.8	0.0	11/27/2024 1:45	3.2	5.1	0.0	7.0	13.4	0.0
11/27/2024 2:00	5.4	9.3	0.0	6.8	11.8	0.0	11/27/2024 2:00	3.2	4.7	0.0	7.2	13.4	0.0
11/27/2024 2:15	5.4	9.2	0.0	6.8	11.7	0.0	11/27/2024 2:15	3.2	4.9	0.0	7.1	13.4	0.0
11/27/2024 2:30	5.3	9.1	0.0	6.8	11.8	0.0	11/27/2024 2:30	3.2	5.0	0.0	7.1	13.4	0.0
11/27/2024 2:45	5.4	9.2	0.0	6.8	11.8	0.0	11/27/2024 2:45	3.2	5.0	0.0	7.1	13.4	0.0
11/27/2024 3:00	5.2	25.9	0.0	6.7	11.9	0.0	11/27/2024 3:00	3.2	4.8	0.0	7.0	13.4	0.0
11/27/2024 3:15	4.2	39.2	0.0	6.7	11.2	0.0	11/27/2024 3:15	3.2	4.9	0.0	7.0	13.4	0.0
11/27/2024 3:30	4.0	37.9	0.0	6.7	11.5	0.0	11/27/2024 3:30	4.2	2.7	0.0	6.7	12.5	19.3
11/27/2024 3:45	4.0	37.4	0.0	6.7	11.5	0.0	11/27/2024 3:45	4.9	68.7	0.0	6.7	12.2	0.0
11/27/2024 4:00	4.0	37.2	0.0	6.7	11.5	0.0	11/27/2024 4:00	4.9	67.6	0.0	6.7	12.2	0.0
11/27/2024 4:15	3.9	36.8	0.0	6.7	11.6	0.0	11/27/2024 4:15	4.9	67.4	0.0	6.7	12.1	0.0
11/27/2024 4:30	3.9	36.6	0.0	6.7	11.6	0.0	11/27/2024 4:30	4.9	67.1	0.0	6.7	12.2	0.0
11/27/2024 4:45	3.9	36.4	0.0	6.7	11.6	0.0	11/27/2024 4:45	4.9	67.7	0.0	6.7	12.2	0.0
11/27/2024 5:00	3.9	36.2	0.0	6.7	11.6	0.0	11/27/2024 5:00	4.9	68.0	0.0	6.7	12.2	0.0
11/27/2024 5:15	3.9	36.2	0.0	6.7	11.6	0.0	11/27/2024 5:15	4.9	69.0	0.0	6.7	12.1	0.0
11/27/2024 5:30	3.9	36.4	0.0	6.7	11.6	0.0	11/27/2024 5:30	5.0	70.5	0.0	6.7	12.1	0.0
11/27/2024 5:45	3.9	36.2	0.0	6.7	11.6	0.0	11/27/2024 5:45	5.0	69.8	0.0	6.7	12.1	0.0
11/27/2024 6:00	3.9	36.2	0.0	6.7	11.6	0.0	11/27/2024 6:00	5.0	69.8	0.0	6.7	12.1	0.0
11/27/2024 6:15	3.9	36.0	0.0	6.7	11.6	0.0	11/27/2024 6:15	5.0	70.4	0.0	6.7	12.0	0.0
11/27/2024 6:30	3.9	36.1	0.0	6.7	11.6	0.0	11/27/2024 6:30	5.0	71.4	0.0	6.6	12.0	0.0
11/27/2024 6:45	3.9	36.0	0.0	6.7	11.5	0.0	11/27/2024 6:45	5.0	71.1	0.0	6.7	12.0	0.0
11/27/2024 7:00	3.9	36.1	0.0	6.7	11.5	0.0	11/27/2024 7:00	5.0	70.7	0.0	6.6	12.0	0.0
11/27/2024 7:15	3.9	35.8	0.0	6.7	11.6	0.0	11/27/2024 7:15	5.0	69.8	0.0	6.7	12.1	0.0
11/27/2024 7:30	3.9	35.9	0.0	6.7	11.5	0.0	11/27/2024 7:30	4.9	7.9	0.0	6.7	12.1	0.0
11/27/2024 7:45	3.9	35.9	0.0	6.7	11.5	0.0	11/27/2024 7:45	4.6	4.6	0.0	6.8	13.0	0.0
11/27/2024 8:00	4.0	37.6	0.0	6.7	11.1	0.0	11/27/2024 8:00	4.3	4.8	0.0	6.8	13.0	0.0
11/27/2024 8:15	4.4	40.3	0.0	6.7	10.5	1.0	11/27/2024 8:15	3.9	5.0	0.0	6.8	13.2	0.0
11/27/2024 8:30	5.0	22.1	0.0	6.7	11.9	0.0	11/27/2024 8:30	3.6	5.2	0.0	6.8	13.3	0.0
11/27/2024 8:45	4.8	8.5	0.0	6.7	12.0	0.0	11/27/2024 8:45	3.4	4.8	0.0	7.0	13.3	0.0
11/27/2024 9:00	4.8	8.0	0.0	6.7	12.0	0.0	11/27/2024 9:00	3.3	5.0	0.0	7.0	13.4	0.0
11/27/2024 9:15	4.7	7.7	0.0	6.8	12.0	0.0	11/27/2024 9:15	3.3	5.4	0.0	7.0	13.4	0.0
11/27/2024 9:30	4.8	7.6	0.0	6.8	12.0	0.0	11/27/2024 9:30	3.3	5.5	0.0	7.0	13.4	0.0
11/27/2024 9:45	4.8	7.5	0.0	6.8	12.0	0.0	11/27/2024 9:45	3.2	5.0	0.0	7.1	13.4	0.0
11/27/2024 10:00	4.9	7.5	0.0	6.8	12.0	0.0	11/27/2024 10:00	3.3	5.0	0.0	7.2	13.4	0.0
11/27/2024 10:15	4.9	7.4	0.0	6.8	11.9	0.0	11/27/2024 10:15	3.3	5.1	0.0	7.2	13.4	0.0
11/27/2024 10:30	5.0	7.4	0.0	6.8	11.9	0.0	11/27/2024 10:30	3.4	5.2	0.0	7.2	13.4	0.0
11/27/2024 10:45	5.1	7.3	0.0	6.8	11.9	0.0	11/27/2024 10:45	3.5	4.7	0.0	7.1	13.3	0.0
11/27/2024 11:00	5.1	7.3	0.0	6.8	11.9	0.0	11/27/2024 11:00	3.7	4.7	0.0	7.1	13.3	0.0
11/27/2024 11:15	5.2	7.4	0.0	6.8	11.9	0.0	11/27/2024 11:15	3.8	4.9	0.0	7.1	13.2	0.0
11/27/2024 11:30	5.2	9.2	0.0	6.8	11.9	0.0	11/27/2024 11:30	3.9	5.0	0.0	7.1	13.2	0.0
11/27/2024 11:45	4.5	36.4	0.0	6.8	10.7	0.9	11/27/2024 11:45	4.1	4.8	0.0	7.1	13.1	0.0
11/27/2024 12:00	4.2	35.1	0.0	6.8	11.2	0.0	11/27/2024 12:00	4.3	4.7	0.0	7.2	13.1	0.0
11/27/2024 12:15	4.0	34.3	0.0	6.8	11.6	0.0	11/27/2024 12:15	4.7	4.7	0.0	6.7	12.7	496.0
11/27/2024 12:30	4.0	34.0	0.0	6.8	11.6	0.0	11/27/2024 12:30	5.1	68.8	0.0	6.7	12.2	0.0
11/27/2024 12:45	4.0	33.8	0.0	6.8	11.6	0.0	11/27/2024 12:45	5.2	68.8	0.0	6.7	12.2	0.0
11/27/2024 13:00	4.0	34.0	0.0	6.8	11.7	0.0	11/27/2024 13:00	5.2	67.8	0.0	6.7	12.2	0.0
11/27/2024 13:15	4.1	33.9	0.0	6.8	11.7	0.0	11/27/2024 13:15	5.2	67.1	0.0	6.7	12.2	0.0
11/27/2024 13:30	4.1	33.7	0.0	6.7	11.7	0.0	11/27/2024 13:30	5.2	66.7	0.0	6.8	12.3	0.0
11/27/2024 13:45	4.1	33.6	0.0	6.7	11.7	0.0	11/27/2024 13:45	5.2	67.9	0.0	6.8	12.3	0.0
11/27/2024 14:00	4.1	33.9	0.0	6.7	11.8	0.0	11/27/2024 14:00	5.2	68.2	0.0	6.8	12.3	0.0
11/27/2024 14:15	4.1	34.2	0.0	6.7	11.7	0.0	11/27/2024 14:15	5.3	70.7	0.0	6.8	12.2	0.0
11/27/2024 14:30	4.1	34.8	0.0	6.7	11.7	0.0	11/27/2024 14:30	5.4	74.2	0.0	6.7	12.1	0.0
11/27/2024 14:45	4.2	36.5	0.0	6.7	11.6	0.0	11/27/2024 14:45	5.4	72.5	0.0	6.8	12.1	0.0
11/27/2024 15:00	4.2	37.4	0.0	6.7	11.7	0.0	11/27/2024 15:00	5.4	71.6	0.0	6.7	12.2	0.0
11/27/2024 15:15	4.2	38.4	0.0	6.7	11.7	0.0	11/27/2024 15:15	5.4	71.1	0.0	6.8	12.2	0.0
11/27/2024 15:30	4.2	38.7	0.0	6.7	11.7	0.0	11/27/2024 15:30	5.4	70.7	0.0	6.8	12.2	0.0
11/27/2024 15:45	4.2	38.7	0.0	6.7	11.7	0.0	11/27/2024 15:45	5.4	70.9	0.0	6.8	12.2	0.0
11/27/2024 16:00	4.2	38.4	0.0	6.7	11.7	0.0	11/27/2024 16:00	5.4	70.3	0.0	6.8	12.2	0.0
11/27/2024 16:15	4.2	39.5	0.0	6.7	11.7	0.0	11/27/2024 16:15	5.5	72.4	0.0	6.8	12.2	0.0
11/27/2024 16:30	4.3	40.2	0.0	6.7	11.7	0.0	11/27/2024 16:30	5.5	74.4	0.0	6.8	12.1	0.0
11/27/2024 16:45	4.3	31.8	0.0	6.7	11.6	0.0	11/27/2024 16:45	5.5	74.9	0.0	6.8	12.1	0.0
11/27/2024 17:00	4.3	40.7	0.0	6.7	11.6	0.0	11/27/2024 17:00	5.5	74.3	0.0	6.7	12.1	0.0
11/27/2024 17:15	4.3	40.5	0.0	6.7	11.6	0.0	11/27/2024 17:15	5.4	73.9	0.0	6.7	12.0	0.0
11/27/2024 17:30	4.2	40.4	0.0	6.7	11.6	0.0	11/27/2024 17:30	5.4	74.1	0.0	6.6	11.9	0.0


11/27/2024 19:15	4.7	5.1	0.0	6.8	12.0	0.0	11/27/2024 19:15	4.6	5.1	0.0	6.8	12.9	0.0
11/27/2024 19:30	4.7	5.0	0.0	6.9	12.0	0.0	11/27/2024 19:30	4.6	5.3	0.0	6.8	12.9	0.0
11/27/2024 19:45	4.7	5.0	0.0	6.9	12.0	0.0	11/27/2024 19:45	4.5	5.2	0.0	6.9	13.0	0.0
11/27/2024 20:00	4.7	4.9	0.0	6.9	12.0	0.0	11/27/2024 20:00	4.4	5.1	0.0	6.9	13.0	0.0
11/27/2024 20:15	4.8	4.9	0.0	6.9	12.0	0.0	11/27/2024 20:15	4.4	5.3	0.0	6.9	13.0	0.0
11/27/2024 20:30	4.9	4.9	0.0	6.9	12.0	0.0	11/27/2024 20:30	4.3	5.4	0.0	6.9	13.0	0.0
11/27/2024 20:45	4.9	4.9	0.0	6.9	12.0	0.0	11/27/2024 20:45	4.3	4.9	0.0	6.9	13.0	0.0
11/27/2024 21:00	5.0	4.9	0.0	6.9	12.0	0.0	11/27/2024 21:00	4.3	5.0	0.0	6.9	13.1	0.0
11/27/2024 21:15	5.1	4.9	0.0	6.9	11.9	0.0	11/27/2024 21:15	4.3	5.2	0.0	6.9	13.1	0.0
11/27/2024 21:30	5.1	4.9	0.0	6.9	11.9	0.0	11/27/2024 21:30	4.2	5.3	0.0	6.9	13.1	0.0
11/27/2024 21:45	5.1	4.9	0.0	6.9	11.9	0.0	11/27/2024 21:45	4.2	5.0	0.0	6.9	13.1	0.0
11/27/2024 22:00	5.2	4.8	0.0	6.9	11.9	0.0	11/27/2024 22:00	4.2	5.0	0.0	7.0	13.1	0.0
11/27/2024 22:15	5.2	4.8	0.0	6.9	11.9	0.0	11/27/2024 22:15	4.2	5.2	0.0	7.0	13.1	0.0
11/27/2024 22:30	5.1	4.8	0.0	6.9	11.9	0.0	11/27/2024 22:30	4.1	5.3	0.0	7.0	13.1	0.0
11/27/2024 22:45	5.0	4.8	0.0	6.9	11.9	0.0	11/27/2024 22:45	4.0	5.0	0.0	6.9	13.1	0.0
11/27/2024 23:00	5.0	4.7	0.0	6.9	11.9	0.0	11/27/2024 23:00	4.0	5.1	0.0	6.9	13.2	0.0
11/27/2024 23:15	5.0	4.7	0.0	6.9	11.9	0.0	11/27/2024 23:15	3.9	5.2	0.0	6.9	13.2	0.0
11/27/2024 23:30	5.0	4.7	0.0	6.9	12.0	0.0	11/27/2024 23:30	3.9	5.3	0.0	6.9	13.2	0.0
11/27/2024 23:45	5.0	4.7	0.0	6.9	12.0	0.0	11/27/2024 23:45	3.9	5.1	0.0	6.9	13.2	0.0
11/28/2024 0:00	5.0	4.7	0.0	6.9	11.9	0.0	11/28/2024 0:00	3.9	5.0	0.0	7.0	13.2	0.0
11/28/2024 0:15	5.1	4.7	0.0	6.9	11.9	0.0	11/28/2024 0:15	3.9	5.2	0.0	7.0	13.2	0.0
11/28/2024 0:30	5.0	4.7	0.0	6.9	11.9	0.0	11/28/2024 0:30	3.8	5.3	0.0	7.0	13.2	0.0
11/28/2024 0:45	5.0	4.7	0.0	6.9	12.0	0.0	11/28/2024 0:45	3.8	5.0	0.0	6.9	13.2	0.0
11/28/2024 1:00	5.0	4.7	0.0	6.9	11.9	0.0	11/28/2024 1:00	3.8	4.9	0.0	6.9	13.2	0.0
11/28/2024 1:15	5.0	4.6	0.0	6.9	11.9	0.0	11/28/2024 1:15	3.7	5.1	0.0	6.9	13.2	0.0
11/28/2024 1:30	4.9	4.6	0.0	6.9	12.0	0.0	11/28/2024 1:30	3.7	5.2	0.0	6.9	13.3	0.0
11/28/2024 1:45	4.9	4.6	0.0	6.9	12.0	0.0	11/28/2024 1:45	3.6	5.2	0.0	6.9	13.3	0.0
11/28/2024 2:00	4.9	4.6	0.0	6.9	12.0	0.0	11/28/2024 2:00	3.7	5.0	0.0	7.0	13.3	0.0
11/28/2024 2:15	4.9	4.6	0.0	6.8	11.9	0.0	11/28/2024 2:15	3.6	5.1	0.0	7.0	13.3	0.0
11/28/2024 2:30	4.8	4.6	0.0	6.8	12.0	0.0	11/28/2024 2:30	3.5	5.2	0.0	7.0	13.3	0.0
11/28/2024 2:45	4.7	4.6	0.0	6.8	12.0	0.0	11/28/2024 2:45	3.4	4.9	0.0	7.0	13.3	0.0
11/28/2024 3:00	4.5	4.6	0.0	6.8	12.1	0.0	11/28/2024 3:00	3.3	5.0	0.0	6.9	13.4	0.0
11/28/2024 3:15	4.4	4.6	0.0	6.8	12.1	0.0	11/28/2024 3:15	3.2	5.2	0.0	6.9	13.4	0.0
11/28/2024 3:30	4.2	4.2.7	0.0	6.7	11.5	0.0	11/28/2024 3:30	3.1	5.3	0.0	6.9	13.5	0.0
11/28/2024 3:45	4.1	40.3	0.0	6.7	11.5	0.0	11/28/2024 3:45	3.4	4.6	0.0	6.8	13.5	0.0
11/28/2024 4:00	4.0	39.8	0.0	6.7	11.5	0.0	11/28/2024 4:00	4.9	68.3	0.0	6.7	12.2	0.0
11/28/2024 4:15	4.0	39.5	0.0	6.7	11.6	0.0	11/28/2024 4:15	5.0	67.7	0.0	6.8	12.1	0.0
11/28/2024 4:30	4.0	39.3	0.0	6.7	11.6	0.0	11/28/2024 4:30	5.0	67.1	0.0	6.8	12.2	0.0
11/28/2024 4:45	4.0	39.2	0.0	6.7	11.6	0.0	11/28/2024 4:45	5.0	68.2	0.0	6.8	12.2	0.0
11/28/2024 5:00	4.0	39.2	0.0	6.7	11.6	0.0	11/28/2024 5:00	5.0	69.2	0.0	6.8	12.1	0.0
11/28/2024 5:15	3.9	39.5	0.0	6.7	11.6	0.0	11/28/2024 5:15	5.0	69.3	0.0	6.8	12.1	0.0
11/28/2024 5:30	3.9	39.5	0.0	6.7	11.6	0.0	11/28/2024 5:30	5.0	69.8	0.0	6.8	12.1	0.0
11/28/2024 5:45	3.9	39.8	0.0	6.7	11.6	0.0	11/28/2024 5:45	5.0	72.0	0.0	6.8	12.0	0.0
11/28/2024 6:00	3.9	40.2	0.0	6.7	11.6	0.0	11/28/2024 6:00	5.0	71.0	0.0	6.8	12.1	0.0
11/28/2024 6:15	3.9	40.4	0.0	6.7	11.6	0.0	11/28/2024 6:15	5.0	72.7	0.0	6.8	12.1	0.0
11/28/2024 6:30	3.9	40.5	0.0	6.7	11.6	0.0	11/28/2024 6:30	5.0	72.0	0.0	6.8	12.1	0.0
11/28/2024 6:45	3.9	40.6	0.0	6.7	11.6	0.0	11/28/2024 6:45	5.0	72.0	0.0	6.8	12.1	0.0
11/28/2024 7:00	3.9	40.6	0.0	6.7	11.6	0.0	11/28/2024 7:00	5.0	72.8	0.0	6.8	12.0	0.0
11/28/2024 7:15	3.9	40.8	0.0	6.7	11.6	0.0	11/28/2024 7:15	5.0	72.7	0.0	6.8	12.0	0.0
11/28/2024 7:30	3.9	40.8	0.0	6.7	11.6	0.0	11/28/2024 7:30	5.0	72.2	0.0	6.8	12.1	0.0
11/28/2024 7:45	3.9	40.7	0.0	6.7	11.6	0.0	11/28/2024 7:45	5.0	71.7	0.0	6.8	12.1	0.0
11/28/2024 8:00	3.8	40.6	0.0	6.7	11.6	0.0	11/28/2024 8:00	5.0	71.8	0.0	6.7	12.0	0.0
11/28/2024 8:15	3.8	40.7	0.0	6.7	11.5	0.0	11/28/2024 8:15	5.0	72.4	0.0	6.7	12.0	0.0
11/28/2024 8:30	3.8	41.4	0.0	6.7	11.5	0.0	11/28/2024 8:30	5.0	74.3	0.0	6.7	11.9	0.0
11/28/2024 8:45	3.9	41.7	0.0	6.7	11.5	0.0	11/28/2024 8:45	5.1	76.8	0.0	6.7	11.9	0.0
11/28/2024 9:00	3.9	42.2	0.0	6.7	11.5	0.0	11/28/2024 9:00	5.0	74.8	0.0	6.7	12.0	0.0
11/28/2024 9:15	3.9	42.1	0.0	6.7	11.4	0.0	11/28/2024 9:15	4.7	2.9	0.0	6.7	12.8	0.0
11/28/2024 9:30	4.0	43.5	0.0	6.7	11.3	0.0	11/28/2024 9:30	4.3	4.4	0.0	6.8	13.0	0.0
11/28/2024 9:45	4.5	47.5	0.0	6.7	12.0	0.0	11/28/2024 9:45	3.8	4.9	0.0	6.9	13.2	0.0
11/28/2024 10:00	4.5	6.6	0.0	6.7	12.1	0.0	11/28/2024 10:00	3.5	4.9	0.0	6.9	13.3	0.0
11/28/2024 10:15	4.3	5.0	0.0	6.8	12.2	0.0	11/28/2024 10:15	3.3	5.1	0.0	6.9	13.4	0.0
11/28/2024 10:30	4.2	4.8	0.0	6.9	12.2	0.0	11/28/2024 10:30	3.3	5.3	0.0	6.9	13.4	0.0
11/28/2024 10:45	4.0	4.4	0.0	6.9	12.3	0.0	11/28/2024 10:45	3.3	4.8	0.0	6.9	13.4	0.0
11/28/2024 11:00	4.0	4.3	0.0	6.9	12.3	0.0	11/28/2024 11:00	3.4	5.0	0.0	6.9	13.3	0.0
11/28/2024 11:15	4.1	4.3	0.0	6.9	12.3	0.0	11/28/2024 11:15	3.4	5.1	0.0	6.9	13.3	0.0
11/28/2024 11:30	4.2	4.4	0.0	6.9	12.2	0.0	11/28/2024 11:30	3.6	5.3	0.0	6.9	13.3	0.0
11/28/2024 11:45	4.5	5.7	0.0	6.9	12.1	0.0	11/28/2024 11:45	3.6	4.9	0.0	6.9	13.3	0.0
11/28/2024 12:00	4.7	33.0	0.0	6.8	12.0	0.0	11/28/2024 12:00	3.7	4.9	0.0	7.0	13.2	0.0
11/28/2024 12:15	4.2	39.6	0.0	6.8	11.2	0.0	11/28/2024 12:15	3.8	5.1	0.0	7.0	13.2	0.0
11/28/2024 12:30	4.1	38.7	0.0	6.8	11.5	0.0	11/28/2024 12:30	4.2	5.1	0.0	6.8	13.1	0.0
11/28/2024 12:45	4.1	38.1	0.0	6.8	11.5	0.0	11/28/2024 12:45	5.1	69.9	0.0	6.7	12.2	0.0
11/28/2024 13:00	4.1	38.2	0.0	6.8	11.5	0.0	11/28/2024 13:00	5.2	70.4	0.0	6.7	12.1	0.0
11/28/2024 13:15	4.1	38.0	0.0	6.8	11.6	0.0	11/28/2024 13:15	5.3	69.8	0.0	6.7	12.1	0.0
11/28/2024 13:30	4.1	37.8	0.0	6.8	11.6	0.0	11/28/2024 13:30	5.3	68.6	0.0	6.7	12.1	0.0
11/28/2024 13:45	4.2	37.6	0.0	6.8	11.6	0.0	11/28/2024 13:45	5.3	70.1	0.0	6.7	12.1	0.0
11/28/2024 14:00	4.2	37.6	0.0	6.8	11.6	0.0	11/28/2024 14:00	5.3	69.9	0.0	6.7	12.2	0.0
11/28/2024 14:15	4.2	37.7	0.0	6.8	11.6	0.0	11/28/2024 14:15	5.3	70.1	0.0	6.8	12.2	0.0
11/28/2024 14:30	4.2	37.8	0.0	6.9	11.6	0.0	11/28/2024 14:30	5.3	70.0	0.0	6.8	12.2	0.0
11/28/2024 14:45	4.2	38.2	0.0	6.9	11.7	0.0	11/28/2024 14:45	5.4	70.9	0.0	6.8	12.2	0.0
11/28/2024 15:00	4.2	38.3	0.0	6.9	11.6	0.0	11/28/2024 15:00	5.4	72.4	0.0	6.8	12.1	0.0
11/28/2024 15:15	4.2	39.1	0.0	6.9	11.6	0.0	11/28/2024 15:15	5.5	77.8	0.0	6.7	12.0	0.0
11/28/2024 15:30	4.3	40.9	0.0	6.8	11.5	0.0	11/28/2024 15:30	5.5	76.7	0.0	6.7	12.0	0.0
11/28/2024 15:45	4.3	40.6	0.0	6.8	11.6	0.0	11/28/2024 15:45	5.5	76.0	0.0	6.8	12.0	0.0
11/28/2024 16:00	4.3	40.6	0.0	6.9	11.6	0.0	11/28/2024 16:00	5.5	76.9	0.0	6.8	12.0	0.0
11/28/2024 16:15	4.3	44.8	0.0	6.8	11.6	7.3	11/28/2024 16:15	5.5	77.8	0.0	6.8	12.0	6.1
11/28/2024 16:30													

11/28/2024 18:00	4.2	42.6	0.0	6.9	11.5	0.0	11/28/2024 18:00	5.4	79.8	0.0	6.6	11.8	0.0
11/28/2024 18:15	4.2	44.9	0.0	6.9	11.2	0.2	11/28/2024 18:15	5.5	82.4	0.0	6.4	11.5	0.0
11/28/2024 18:30	4.9	13.3	0.0	6.9	11.9	0.0	11/28/2024 18:30	5.2	3.4	0.0	6.7	12.7	0.0
11/28/2024 18:45	4.6	3.1	0.0	6.9	12.0	0.0	11/28/2024 18:45	4.7	4.5	0.0	6.8	12.9	0.0
11/28/2024 19:00	4.5	3.1	0.0	7.0	12.1	0.0	11/28/2024 19:00	4.4	4.7	0.0	6.8	12.9	0.0
11/28/2024 19:15	4.4	3.1	0.0	7.0	12.1	0.0	11/28/2024 19:15	4.2	4.9	0.0	6.8	13.0	0.0
11/28/2024 19:30	4.4	3.0	0.0	7.0	12.1	0.0	11/28/2024 19:30	4.1	5.1	0.0	6.8	13.1	0.0
11/28/2024 19:45	4.4	3.0	0.0	7.0	12.1	0.0	11/28/2024 19:45	4.0	5.0	0.0	6.8	13.1	0.0
11/28/2024 20:00	4.4	3.0	0.0	7.0	12.1	0.0	11/28/2024 20:00	3.9	5.0	0.0	6.9	13.1	0.0
11/28/2024 20:15	4.4	3.0	0.0	7.0	12.1	0.0	11/28/2024 20:15	3.9	5.1	0.0	6.9	13.1	0.0
11/28/2024 20:30	4.3	2.9	0.0	7.0	12.1	0.0	11/28/2024 20:30	3.9	5.2	0.0	6.8	13.1	0.0
11/28/2024 20:45	4.4	2.9	0.0	7.0	12.1	0.0	11/28/2024 20:45	3.8	4.6	0.0	6.8	13.2	0.0
11/28/2024 21:00	4.4	2.8	0.0	7.0	12.1	0.0	11/28/2024 21:00	3.7	4.8	0.0	6.9	13.2	0.0
11/28/2024 21:15	4.4	2.7	0.0	7.0	12.1	0.0	11/28/2024 21:15	3.6	5.0	0.0	6.8	13.2	0.0
11/28/2024 21:30	4.4	2.7	0.0	7.1	12.1	0.0	11/28/2024 21:30	3.6	5.2	0.0	6.9	13.2	0.0
11/28/2024 21:45	4.5	2.6	0.0	7.1	12.1	0.0	11/28/2024 21:45	3.6	4.9	0.0	6.9	13.2	0.0
11/28/2024 22:00	4.5	2.6	0.0	7.1	12.1	0.0	11/28/2024 22:00	3.6	5.0	0.0	7.0	13.2	0.0
11/28/2024 22:15	4.4	2.6	0.0	7.1	12.1	0.0	11/28/2024 22:15	3.5	5.1	0.0	7.0	13.3	0.0
11/28/2024 22:30	4.3	2.4	0.0	7.1	12.1	0.0	11/28/2024 22:30	3.4	5.2	0.0	7.0	13.3	0.0
11/28/2024 22:45	4.3	2.4	0.0	7.1	12.1	0.0	11/28/2024 22:45	3.3	4.9	0.0	7.0	13.3	0.0
11/28/2024 23:00	4.3	2.4	0.0	7.1	12.1	0.0	11/28/2024 23:00	3.3	5.0	0.0	7.0	13.3	0.0
11/28/2024 23:15	4.3	2.3	0.0	7.1	12.1	0.0	11/28/2024 23:15	3.3	5.1	0.0	7.0	13.3	0.0
11/28/2024 23:30	4.3	2.3	0.0	7.1	12.1	0.0	11/28/2024 23:30	3.3	5.2	0.0	6.9	13.3	0.0
11/28/2024 23:45	4.3	2.2	0.0	7.1	12.1	0.0	11/28/2024 23:45	3.2	5.0	0.0	7.0	13.3	0.0
11/29/2024 0:00	4.3	2.2	0.0	7.1	12.1	0.0	11/29/2024 0:00	3.2	5.0	0.0	7.0	13.4	0.0
11/29/2024 0:15	4.2	2.1	0.0	7.1	12.1	0.0	11/29/2024 0:15	3.1	5.1	0.0	7.0	13.4	0.0
11/29/2024 0:30	4.2	2.1	0.0	7.1	12.1	0.0	11/29/2024 0:30	3.1	5.3	0.0	7.0	13.4	0.0
11/29/2024 0:45	4.2	2.0	0.0	7.1	12.2	0.0	11/29/2024 0:45	3.0	4.5	0.0	7.0	13.4	0.0
11/29/2024 1:00	4.2	2.0	0.0	7.1	12.2	0.0	11/29/2024 1:00	3.0	4.6	0.0	7.0	13.4	0.0
11/29/2024 1:15	4.2	1.9	0.0	7.1	12.2	0.0	11/29/2024 1:15	3.0	4.8	0.0	7.0	13.4	0.0
11/29/2024 1:30	4.1	1.9	0.0	7.1	12.1	0.0	11/29/2024 1:30	3.0	5.0	0.0	7.0	13.4	0.0
11/29/2024 1:45	4.2	1.9	0.0	7.1	12.2	0.0	11/29/2024 1:45	3.0	4.7	0.0	7.0	13.4	0.0
11/29/2024 2:00	4.1	1.8	0.0	7.1	12.2	0.0	11/29/2024 2:00	3.0	4.7	0.0	7.1	13.4	0.0
11/29/2024 2:15	4.1	1.8	0.0	7.1	12.2	0.0	11/29/2024 2:15	2.9	4.9	0.0	7.1	13.5	0.0
11/29/2024 2:30	4.0	1.8	0.0	7.1	12.2	0.0	11/29/2024 2:30	3.0	4.9	0.0	7.1	13.5	0.0
11/29/2024 2:45	4.0	1.8	0.0	7.1	12.2	0.0	11/29/2024 2:45	2.9	4.7	0.0	7.1	13.5	0.0
11/29/2024 3:00	4.0	1.8	0.0	7.1	12.2	0.0	11/29/2024 3:00	2.8	4.6	0.0	7.0	13.5	0.0
11/29/2024 3:15	4.0	1.8	0.0	7.1	12.2	0.0	11/29/2024 3:15	2.9	4.7	0.0	7.0	13.5	0.0
11/29/2024 3:30	3.9	1.8	0.0	7.1	12.2	0.0	11/29/2024 3:30	2.8	4.8	0.0	7.0	13.5	0.0
11/29/2024 3:45	3.9	1.8	0.0	7.1	12.2	0.0	11/29/2024 3:45	2.8	4.7	0.0	7.1	13.5	0.0
11/29/2024 4:00	4.0	42.3	0.0	7.0	11.4	0.0	11/29/2024 4:00	4.7	68.1	0.0	6.7	12.1	0.0
11/29/2024 4:15	3.9	41.0	0.0	7.0	11.5	0.0	11/29/2024 4:15	4.9	66.9	0.0	6.7	12.1	0.0
11/29/2024 4:30	3.9	40.6	0.0	6.9	11.5	0.0	11/29/2024 4:30	4.9	65.9	0.0	6.8	12.1	0.0
11/29/2024 4:45	3.9	40.3	0.0	7.0	11.6	0.0	11/29/2024 4:45	4.9	69.0	0.0	6.8	12.1	0.0
11/29/2024 5:00	3.9	40.3	0.0	7.0	11.6	0.0	11/29/2024 5:00	4.9	68.8	0.0	6.8	12.1	0.0
11/29/2024 5:15	3.8	39.4	0.0	6.9	11.6	0.1	11/29/2024 5:15	4.9	69.3	0.0	6.8	12.1	0.0
11/29/2024 5:30	3.8	40.1	0.0	7.0	11.6	0.0	11/29/2024 5:30	5.0	71.4	0.0	6.8	12.1	0.0
11/29/2024 5:45	3.9	42.1	0.0	7.1	11.5	0.0	11/29/2024 5:45	5.0	74.5	0.0	6.8	12.0	0.0
11/29/2024 6:00	3.9	48.5	0.0	7.1	11.5	0.0	11/29/2024 6:00	5.0	73.3	0.0	6.8	12.0	0.0
11/29/2024 6:15	3.9	48.3	0.0	7.2	11.5	0.0	11/29/2024 6:15	4.9	71.8	0.0	6.8	12.0	0.0
11/29/2024 6:30	3.8	47.9	0.0	7.3	11.6	0.0	11/29/2024 6:30	4.9	71.1	0.0	6.8	12.1	0.0
11/29/2024 6:45	3.8	47.3	0.0	7.3	11.6	0.0	11/29/2024 6:45	4.9	72.1	0.0	6.8	12.1	0.0
11/29/2024 7:00	3.8	48.1	0.0	7.3	11.6	0.0	11/29/2024 7:00	5.0	75.7	0.0	6.8	12.0	0.0
11/29/2024 7:15	3.9	49.4	0.0	7.3	11.6	0.0	11/29/2024 7:15	5.0	75.3	0.0	6.8	12.0	0.0
11/29/2024 7:30	3.9	49.0	0.0	7.3	11.6	0.0	11/29/2024 7:30	4.9	72.5	0.0	6.8	12.1	0.0
11/29/2024 7:45	3.8	48.1	0.0	7.4	11.6	0.0	11/29/2024 7:45	4.9	73.3	0.0	6.8	12.1	0.0
11/29/2024 8:00	3.9	49.0	0.0	7.4	11.6	0.0	11/29/2024 8:00	5.0	77.2	0.0	6.8	12.0	0.0
11/29/2024 8:15	3.9	50.5	0.0	7.4	11.5	0.0	11/29/2024 8:15	5.1	79.0	0.0	6.8	11.9	0.0
11/29/2024 8:30	3.9	51.1	0.0	7.4	11.5	0.0	11/29/2024 8:30	5.0	77.2	0.0	6.8	12.0	0.0
11/29/2024 8:45	3.9	50.2	0.0	7.3	11.5	0.0	11/29/2024 8:45	5.0	77.1	0.0	6.8	12.0	0.0
11/29/2024 9:00	3.9	50.1	0.0	7.3	11.5	0.0	11/29/2024 9:00	5.0	75.7	0.0	6.8	12.0	0.0
11/29/2024 9:15	3.9	49.8	0.0	7.3	11.5	0.0	11/29/2024 9:15	5.0	74.7	0.0	6.8	12.0	0.0
11/29/2024 9:30	3.9	49.5	0.0	7.3	11.5	0.0	11/29/2024 9:30	5.0	74.3	0.0	6.8	12.0	0.0
11/29/2024 9:45	3.9	49.9	0.0	7.3	11.5	0.0	11/29/2024 9:45	5.0	76.4	0.0	6.8	12.0	0.0
11/29/2024 10:00	3.9	50.4	0.0	7.3	11.5	0.0	11/29/2024 10:00	5.0	76.6	0.0	6.7	11.9	0.0
11/29/2024 10:15	3.9	50.7	0.0	7.3	11.4	0.0	11/29/2024 10:15	5.1	76.9	0.0	6.7	11.9	0.0
11/29/2024 10:30	3.9	50.4	0.0	7.2	11.5	0.0	11/29/2024 10:30	5.1	75.5	0.0	6.7	11.9	0.0
11/29/2024 10:45	3.9	50.6	0.0	7.3	11.4	0.0	11/29/2024 10:45	5.1	75.9	0.0	6.6	11.8	0.0
11/29/2024 11:00	3.9	51.1	0.0	7.2	11.4	0.0	11/29/2024 11:00	5.2	76.2	0.0	6.5	11.6	0.0
11/29/2024 11:15	4.1	51.9	0.0	7.1	11.0	0.0	11/29/2024 11:15	5.2	76.2	0.0	6.5	11.7	0.0
11/29/2024 11:30	4.4	57.0	0.0	7.0	10.8	0.0	11/29/2024 11:30	5.2	76.0	0.0	6.5	11.7	0.0
11/29/2024 11:45	4.1	53.3	0.0	6.9	11.2	0.0	11/29/2024 11:45	5.1	76.7	0.0	6.6	11.8	0.0
11/29/2024 12:00	4.0	50.0	0.0	7.1	11.5	0.0	11/29/2024 12:00	5.2	76.2	0.0	6.5	11.8	0.0
11/29/2024 12:15	4.0	50.1	0.0	7.2	11.4	0.0	11/29/2024 12:15	5.2	76.3	0.0	6.5	11.7	0.0
11/29/2024 12:30	4.0	50.6	0.0	7.2	11.4	0.0	11/29/2024 12:30	5.2	76.6	0.0	6.5	11.7	0.0
11/29/2024 12:45	4.0	50.4	0.0	7.1	11.4	0.0	11/29/2024 12:45	5.2	76.2	0.0	6.5	11.8	0.0
11/29/2024 13:00	4.0	50.0	0.0	7.2	11.5	0.0	11/29/2024 13:00	5.1	73.7	0.0	6.6	12.0	0.0
11/29/2024 13:15	4.0	48.8	0.0	7.2	11.5	0.0	11/29/2024 13:15	5.1	72.7	0.0	6.7	12.1	0.0
11/29/2024 13:30	4.0	48.4	0.0	7.2	11.6	0.0	11/29/2024 13:30	5.1	72.3	0.0	6.7	12.1	0.0
11/29/2024 13:45	4.0	48.0	0.0	7.2	11.6	0.0	11/29/2024 13:45	5.1	72.3	0.0	6.7	12.1	0.0
11/29/2024 14:00	4.0	48.4	0.0	7.3	11.6	0.0	11/29/2024 14:00	5.1	72.9	0.0	6.7	12.1	0.0
11/29/2024 14:15	4.0	48.3	0.0	7.2	11.6	0.0	11/29/2024 14:15	5.1	71.7	0.0	6.7	12.1	0.0
11/29/2024 14:30	4.0	48.0	0.0	7.3	11.6	0.0	11/29/2024 14:30	5.1	71.6	0.0	6.7	12.1	0.0
11/29/2024 14:45	4.0	48.0	0.0	7.3	11.6	0.0	11/29/2024 14:45	5.1	72.0	0.0	6.8	12.1	0.0
11/29/2024 15:00	4.0	48.0	0.0	7.3	11.6	0.0	11/29/2024 15:00	5.1	71.8	0.0	6.8	12.1	0.0
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11/29/2024 16:45	4.0	49.8	0.0	7.3	11.6	0.0	11/29/2024 16:45	5.2	77.6	0.0	6.8	12.0	0.0
11/29/2024 17:00	4.1	51.1	0.0	7.3	11.5	0.0	11/29/2024 17:00	5.2	78.8	0.0	6.7	12.0	0.0
11/29/2024 17:15	4.1	51.3	0.0	7.3	11.5	0.0	11/29/2024 17:15	5.2	77.6	0.0	6.7	12.0	0.0
11/29/2024 17:30	4.1	50.8	0.0	7.3	11.5	0.0	11/29/2024 17:30	5.2	77.4	0.0	6.7	12.0	0.0
11/29/2024 17:45	4.1	50.7	0.0	7.3	11.5	0.0	11/29/2024 17:45	5.2	77.5	0.0	6.7	12.0	0.0
11/29/2024 18:00	4.1	51.5	0.0	7.3	11.5	0.0	11/29/2024 18:00	5.3	81.5	0.0	6.7	11.8	0.0
11/29/2024 18:15	4.1	53.3	0.0	7.3	11.3	0.0	11/29/2024 18:15	5.3	83.3	0.0	6.6	11.7	0.0
11/29/2024 18:30	4.2	56.3	0.0	7.1	11.1	0.0	11/29/2024 18:30	5.5	86.5	0.0	6.4	11.2	0.0
11/29/2024 18:45	4.8	7.0	0.0	7.0	12.0	0.0	11/29/2024 18:45	5.4	4.3	0.0	6.6	12.6	0.0
11/29/2024 19:00	4.6	0.1	0.0	7.2	12.1	0.0	11/29/2024 19:00	5.1	4.4	0.0	6.7	12.7	0.0
11/29/2024 19:15	4.4	0.1	0.0	7.2	12.1	0.0	11/29/2024 19:15	4.9	4.7	0.0	6.7	12.8	0.0
11/29/2024 19:30	4.4	0.1	0.0	7.2	12.1	0.0	11/29/2024 19:30	4.7	4.9	0.0	6.7	12.8	0.0
11/29/2024 19:45	4.4	0.1	0.0	7.2	12.1	0.0	11/29/2024 19:45	4.7	4.8	0.0	6.7	12.9	0.0
11/29/2024 20:00	4.5	0.1	0.0	7.2	12.1	0.0	11/29/2024 20:00	4.6	4.8	0.0	6.8	12.9	0.0
11/29/2024 20:15	4.5	0.1	0.0	7.2	12.1	0.0	11/29/2024 20:15	4.6	5.0	0.0	6.8	12.9	0.0
11/29/2024 20:30	4.5	0.1	0.0	7.2	12.1	0.0	11/29/2024 20:30	4.6	5.0	0.0	6.8	12.9	0.0
11/29/2024 20:45	4.6	0.1	0.0	7.2	12.0	0.0	11/29/2024 20:45	4.6	4.5	0.0	6.8	12.9	0.0
11/29/2024 21:00	4.6	0.1	0.0	7.1	12.0	0.0	11/29/2024 21:00	4.6	4.6	0.0	6.8	12.9	0.0
11/29/2024 21:15	4.6	0.1	0.0	7.1	12.1	0.0	11/29/2024 21:15	4.6	4.9	0.0	6.8	12.9	0.0
11/29/2024 21:30	4.6	0.1	0.0	7.1	12.1	0.0	11/29/2024 21:30	4.6	5.0	0.0	6.8	12.9	0.0
11/29/2024 21:45	4.6	0.1	0.0	7.1	12.0	0.0	11/29/2024 21:45	4.5	4.8	0.0	6.8	12.9	0.0
11/29/2024 22:00	4.6	0.1	0.0	7.1	12.0	0.0	11/29/2024 22:00	4.5	4.9	0.0	6.8	12.9	0.0
11/29/2024 22:15	4.6	0.1	0.0	7.1	12.0	0.0	11/29/2024 22:15	4.6	5.0	0.0	6.8	12.9	0.0
11/29/2024 22:30	4.7	0.1	0.0	7.0	12.0	0.0	11/29/2024 22:30	4.6	5.1	0.0	6.8	12.9	0.0
11/29/2024 22:45	4.7	0.1	0.0	7.0	12.0	0.0	11/29/2024 22:45	4.6	4.5	0.0	6.8	12.9	0.0
11/29/2024 23:00	4.8	0.1	0.0	7.0	12.0	0.0	11/29/2024 23:00	4.6	4.6	0.0	6.8	12.9	0.0
11/29/2024 23:15	4.8	0.1	0.0	7.0	12.0	0.0	11/29/2024 23:15	4.6	4.9	0.0	6.8	12.9	0.0
11/29/2024 23:30	4.9	0.1	0.0	7.0	11.9	0.0	11/29/2024 23:30	4.7	5.1	0.0	6.8	12.9	0.0
11/29/2024 23:45	5.0	0.1	0.0	6.9	11.9	0.0	11/29/2024 23:45	4.8	4.8	0.0	6.8	12.8	0.0
11/30/2024 0:00	4.9	0.1	0.0	6.9	12.0	0.0	11/30/2024 0:00	4.8	4.7	0.0	6.9	12.8	0.0
11/30/2024 0:15	4.9	0.1	0.0	6.9	11.9	0.0	11/30/2024 0:15	4.9	4.9	0.0	6.9	12.8	0.0
11/30/2024 0:30	4.9	0.1	0.0	6.9	11.9	0.0	11/30/2024 0:30	4.9	5.0	0.0	6.9	12.8	0.0
11/30/2024 0:45	5.0	0.1	0.0	6.9	11.9	0.0	11/30/2024 0:45	4.9	4.5	0.0	6.9	12.8	0.0
11/30/2024 1:00	4.9	0.1	0.0	6.9	11.9	0.0	11/30/2024 1:00	4.9	4.5	0.0	6.9	12.8	0.0
11/30/2024 1:15	5.0	0.1	0.0	6.8	11.9	0.0	11/30/2024 1:15	5.0	4.6	0.0	6.9	12.8	0.0
11/30/2024 1:30	4.9	0.1	0.0	6.8	12.0	0.0	11/30/2024 1:30	4.9	4.8	0.0	6.9	12.8	0.0
11/30/2024 1:45	4.9	0.1	0.0	6.8	12.0	0.0	11/30/2024 1:45	4.9	4.8	0.0	6.9	12.8	0.0
11/30/2024 2:00	4.9	0.1	0.0	6.8	12.0	0.0	11/30/2024 2:00	4.9	4.7	0.0	6.9	12.8	0.0
11/30/2024 2:15	4.9	0.1	0.0	6.8	12.0	0.0	11/30/2024 2:15	4.9	4.8	0.0	6.9	12.8	0.0
11/30/2024 2:30	4.9	0.1	0.0	6.8	11.9	0.0	11/30/2024 2:30	4.9	5.0	0.0	6.9	12.8	0.0
11/30/2024 2:45	4.9	0.1	0.0	6.7	12.0	0.0	11/30/2024 2:45	4.9	4.7	0.0	6.9	12.8	0.0
11/30/2024 3:00	5.0	0.1	0.0	6.7	11.9	0.0	11/30/2024 3:00	4.9	4.6	0.0	6.9	12.8	0.0
11/30/2024 3:15	5.1	0.1	0.0	6.7	11.9	0.0	11/30/2024 3:15	5.0	4.8	0.0	6.9	12.8	0.0
11/30/2024 3:30	5.1	0.1	0.0	6.7	11.9	0.0	11/30/2024 3:30	5.0	5.0	0.0	6.9	12.8	0.0
11/30/2024 3:45	5.1	0.1	0.0	6.7	11.9	0.0	11/30/2024 3:45	4.9	4.7	0.0	6.9	12.8	0.0
11/30/2024 4:00	5.1	0.1	0.0	6.7	11.9	0.0	11/30/2024 4:00	4.9	4.6	0.0	7.0	12.8	0.0
11/30/2024 4:15	4.4	49.9	0.0	7.1	11.9	315.1	11/30/2024 4:15	5.0	4.7	0.0	6.7	12.7	421.3
11/30/2024 4:30	4.2	47.3	0.0	7.2	11.6	0.0	11/30/2024 4:30	5.3	66.9	0.0	6.7	12.0	0.0
11/30/2024 4:45	4.2	46.7	0.0	7.2	11.6	0.0	11/30/2024 4:45	5.3	68.8	0.0	6.8	12.1	0.0
11/30/2024 5:00	4.2	46.3	0.0	7.3	11.6	0.0	11/30/2024 5:00	5.2	68.3	0.0	6.8	12.1	0.0
11/30/2024 5:15	4.2	46.2	0.0	7.4	11.6	0.0	11/30/2024 5:15	5.2	68.4	0.0	6.8	12.1	0.0
11/30/2024 5:30	4.2	46.5	0.0	7.4	11.6	0.0	11/30/2024 5:30	5.3	69.3	0.0	6.8	12.1	0.0
11/30/2024 5:45	4.2	48.0	0.0	7.3	11.6	0.0	11/30/2024 5:45	5.4	74.4	0.0	6.8	12.0	0.0
11/30/2024 6:00	4.2	48.7	0.0	7.4	11.5	0.0	11/30/2024 6:00	5.4	74.4	0.0	6.8	12.0	0.0
11/30/2024 6:15	4.3	49.2	0.0	7.4	11.5	0.0	11/30/2024 6:15	5.4	73.2	0.0	6.8	12.0	0.0
11/30/2024 6:30	4.3	48.9	0.0	7.4	11.5	0.0	11/30/2024 6:30	5.3	72.5	0.0	6.8	12.0	0.0
11/30/2024 6:45	4.3	48.8	0.0	7.4	11.6	0.0	11/30/2024 6:45	5.3	72.7	0.0	6.9	12.1	0.0
11/30/2024 7:00	4.3	48.9	0.0	7.4	11.6	0.0	11/30/2024 7:00	5.4	76.6	0.0	6.8	12.0	0.0
11/30/2024 7:15	4.3	50.5	0.0	7.4	11.5	0.0	11/30/2024 7:15	5.4	76.5	0.0	6.8	12.0	0.0
11/30/2024 7:30	4.3	50.8	0.0	7.4	11.6	0.0	11/30/2024 7:30	5.4	76.1	0.0	6.8	12.0	0.0
11/30/2024 7:45	4.3	50.9	0.0	7.4	11.5	0.0	11/30/2024 7:45	5.4	76.4	0.0	6.9	12.0	0.0
11/30/2024 8:00	4.3	50.9	0.0	7.4	11.6	0.0	11/30/2024 8:00	5.4	78.2	0.0	6.8	12.0	0.0
11/30/2024 8:15	4.3	52.0	0.0	7.5	11.6	0.0	11/30/2024 8:15	5.5	80.2	0.0	6.8	12.0	0.0
11/30/2024 8:30	4.4	52.9	0.0	7.5	11.5	0.0	11/30/2024 8:30	5.4	78.6	0.0	6.9	12.0	0.0
11/30/2024 8:45	4.4	52.4	0.0	7.5	11.5	0.0	11/30/2024 8:45	5.4	77.6	0.0	6.9	12.1	0.0
11/30/2024 9:00	4.3	52.0	0.0	7.4	11.6	0.0	11/30/2024 9:00	5.5	79.6	0.0	6.9	12.0	0.0
11/30/2024 9:15	4.4	53.4	0.0	7.4	11.5	0.0	11/30/2024 9:15	5.5	83.3	0.0	6.8	11.9	0.0
11/30/2024 9:30	4.4	54.9	0.0	7.4	11.5	0.0	11/30/2024 9:30	5.5	83.2	0.0	6.8	11.9	0.0
11/30/2024 9:45	4.4	54.7	0.0	7.5	11.4	0.0	11/30/2024 9:45	5.5	82.4	0.0	6.9	11.9	0.0
11/30/2024 10:00	4.4	53.9	0.0	7.4	11.4	0.0	11/30/2024 10:00	5.5	81.3	0.0	6.8	11.9	0.0
11/30/2024 10:15	4.4	53.6	0.0	7.4	11.4	0.0	11/30/2024 10:15	5.5	81.6	0.0	6.8	11.9	0.0
11/30/2024 10:30	4.4	54.2	0.0	7.4	11.4	0.0	11/30/2024 10:30	5.5	81.8	0.0	6.8	11.8	0.0
11/30/2024 10:45	4.4	53.8	0.0	7.4	11.4	0.0	11/30/2024 10:45	5.5	79.8	0.0	6.8	11.8	0.0
11/30/2024 11:00	4.4	53.0	0.0	7.4	11.4	0.0	11/30/2024 11:00	5.5	77.3	0.0	6.8	11.9	0.0
11/30/2024 11:15	4.4	51.9	0.0	7.4	11.4	0.0	11/30/2024 11:15	5.5	77.1	0.0	6.8	11.8	0.0
11/30/2024 11:30	4.4	52.6	0.0	7.4	11.3	0.0	11/30/2024 11:30	5.6	78.5	0.0	6.8	11.8	0.0
11/30/2024 11:45	4.5	53.7	0.0	7.3	11.3	0.0	11/30/2024 11:45	5.6	82.8	0.0	6.7	11.7	0.0
11/30/2024 12:00	4.5	54.4	0.0	7.4	11.2	0.0	11/30/2024 12:00	5.6	80.8	0.0	6.7	11.7	0.0
11/30/2024 12:15	4.5	53.0	0.0	7.3	11.3	0.0	11/30/2024 12:15	5.6	78.0	0.0	6.7	11.8	0.0
11/30/2024 12:30	4.4	51.8	0.0	7.3	11.4	0.0	11/30/2024 12:30	5.6	77.8	0.0	6.7	11.8	0.0
11/30/2024 12:45	4.5	52.1	0.0	7.3	11.3	0.0	11/30/2024 12:45	5.6	78.0	0.0	6.7	11.7	0.0
11/30/2024 13:00	4.5	52.4	0.0	7.3	11.3	0.0	11/30/2024 13:00	5.7	79.9	0.0	6.6	11.7	0.0
11/30/2024 13:15	4.5	52.7	0.0	7.3	11.3	0.0	11/30/2024 13:15	5.6	77.5	0.0	6.7	11.8	0.0
11/30/2024 13:30	4.5	51.7	0.0	7.3	11.3	0.0	11/30/2024 13:30	5.6	76.1	0.0	6.7	11.8	0.0
11/30/2024 13:45	4.5	50.9	0.0	7.3	11.4	0.0	11/30/2024 13:45	5.6	74.6	0.0	6.7	11.9	0.0

11/30/2024 15:30	4.5	49.7	0.0	7.4	11.5	0.0	11/30/2024 15:30	5.6	74.4	0.0	6.8	12.0	0.0
11/30/2024 15:45	4.5	49.9	0.0	7.4	11.4	0.0	11/30/2024 15:45	5.6	74.3	0.0	6.8	11.9	0.0
11/30/2024 16:00	4.5	49.8	0.0	7.3	11.4	0.0	11/30/2024 16:00	5.6	75.6	0.0	6.8	11.9	0.0
11/30/2024 16:15	4.6	52.3	0.0	7.3	11.4	0.0	11/30/2024 16:15	5.8	86.1	0.0	6.7	11.7	0.0
11/30/2024 16:30	4.6	54.9	0.0	7.3	11.3	0.0	11/30/2024 16:30	5.7	81.4	0.0	6.7	11.7	0.0
11/30/2024 16:45	4.6	53.2	0.0	7.3	11.3	0.0	11/30/2024 16:45	5.7	80.3	0.0	6.8	11.8	0.0
11/30/2024 17:00	4.6	52.5	0.0	7.3	11.4	0.0	11/30/2024 17:00	5.7	78.8	0.0	6.8	11.8	0.0
11/30/2024 17:15	4.6	52.1	0.0	7.3	11.4	0.0	11/30/2024 17:15	5.7	79.3	0.0	6.8	11.8	0.0
11/30/2024 17:30	4.6	52.6	0.0	7.3	11.4	0.0	11/30/2024 17:30	5.7	81.7	0.0	6.8	11.8	0.0
11/30/2024 17:45	4.6	53.5	0.0	7.4	11.3	0.0	11/30/2024 17:45	5.7	81.7	0.0	6.8	11.8	0.0
11/30/2024 18:00	4.6	53.5	0.0	7.4	11.3	0.0	11/30/2024 18:00	5.7	79.7	0.0	6.7	11.8	0.0
11/30/2024 18:15	4.6	52.8	0.0	7.3	11.3	0.0	11/30/2024 18:15	5.7	81.0	0.0	6.7	11.8	0.0
11/30/2024 18:30	4.6	54.1	0.0	7.3	11.3	0.0	11/30/2024 18:30	5.8	84.2	0.0	6.6	11.6	0.0
11/30/2024 18:45	4.6	55.4	0.0	7.3	11.2	0.0	11/30/2024 18:45	5.8	86.9	0.0	6.6	11.5	0.0
11/30/2024 19:00	4.8	58.4	0.0	7.2	10.8	0.0	11/30/2024 19:00	5.9	88.1	0.0	6.4	11.1	0.0
11/30/2024 19:15	5.2	0.1	0.0	7.2	11.9	0.0	11/30/2024 19:15	5.9	3.7	0.0	6.7	12.5	0.0
11/30/2024 19:30	5.0	0.1	0.0	7.2	12.0	0.0	11/30/2024 19:30	5.8	4.0	0.0	6.7	12.5	0.0
11/30/2024 19:45	5.0	0.1	0.0	7.2	12.0	0.0	11/30/2024 19:45	5.7	4.4	0.0	6.7	12.5	0.0
11/30/2024 20:00	5.0	0.1	0.0	7.2	11.9	0.0	11/30/2024 20:00	5.7	4.5	0.0	6.9	12.5	0.0
11/30/2024 20:15	5.1	0.1	0.0	7.2	11.9	0.0	11/30/2024 20:15	5.8	4.7	0.0	6.9	12.5	0.0
11/30/2024 20:30	5.1	0.1	0.0	7.2	11.9	0.0	11/30/2024 20:30	5.7	4.9	0.0	6.9	12.6	0.0
11/30/2024 20:45	5.1	0.1	0.0	7.2	11.9	0.0	11/30/2024 20:45	5.7	4.6	0.0	6.9	12.6	0.0
11/30/2024 21:00	5.0	0.1	0.0	7.2	11.9	0.0	11/30/2024 21:00	5.7	4.6	0.0	6.9	12.6	0.0
11/30/2024 21:15	5.1	0.1	0.0	7.1	11.9	0.0	11/30/2024 21:15	5.7	4.8	0.0	6.9	12.6	0.0
11/30/2024 21:30	5.1	0.1	0.0	7.1	11.9	0.0	11/30/2024 21:30	5.7	4.8	0.0	6.9	12.5	0.0
11/30/2024 21:45	5.1	0.1	0.0	7.1	11.9	0.0	11/30/2024 21:45	5.7	4.5	0.0	6.9	12.6	0.0
11/30/2024 22:00	5.2	0.1	0.0	7.1	11.9	0.0	11/30/2024 22:00	5.7	4.6	0.0	7.0	12.6	0.0
11/30/2024 22:15	5.2	0.1	0.0	7.1	11.9	0.0	11/30/2024 22:15	5.7	4.7	0.0	6.9	12.6	0.0
11/30/2024 22:30	5.4	0.1	0.0	7.0	11.8	0.0	11/30/2024 22:30	5.7	4.8	0.0	6.9	12.6	0.0
11/30/2024 22:45	5.4	0.1	0.0	7.0	11.8	0.0	11/30/2024 22:45	5.7	4.7	0.0	6.9	12.6	0.0
11/30/2024 23:00	5.4	0.1	0.0	7.0	11.8	0.0	11/30/2024 23:00	5.7	4.6	0.0	6.9	12.6	0.0
11/30/2024 23:15	5.5	0.1	0.0	7.0	11.8	0.0	11/30/2024 23:15	5.7	4.7	0.0	6.9	12.6	0.0
11/30/2024 23:30	5.5	0.1	0.0	7.0	11.8	0.0	11/30/2024 23:30	5.7	4.7	0.0	6.9	12.6	0.0
11/30/2024 23:45	5.4	0.1	0.0	6.9	11.8	0.0	11/30/2024 23:45	5.6	4.7	0.0	6.9	12.6	0.0
12/01/2024 0:00	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 0:00	5.6	4.6	0.0	7.0	12.6	0.0
12/01/2024 0:15	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 0:15	5.6	4.8	0.0	7.0	12.6	0.0
12/01/2024 0:30	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 0:30	5.6	4.8	0.0	7.0	12.6	0.0
12/01/2024 0:45	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 0:45	5.6	4.5	0.0	7.0	12.6	0.0
12/01/2024 1:00	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 1:00	5.6	4.6	0.0	6.9	12.6	0.0
12/01/2024 1:15	5.4	0.1	0.0	6.9	11.8	0.0	12/01/2024 1:15	5.6	4.7	0.0	6.9	12.6	0.0
12/01/2024 1:30	5.4	0.1	0.0	6.8	11.8	0.0	12/01/2024 1:30	5.5	4.8	0.0	6.9	12.6	0.0
12/01/2024 1:45	5.4	0.1	0.0	6.8	11.8	0.0	12/01/2024 1:45	5.5	4.7	0.0	6.9	12.6	0.0
12/01/2024 2:00	5.3	0.1	0.0	6.8	11.8	0.0	12/01/2024 2:00	5.5	4.6	0.0	7.0	12.6	0.0
12/01/2024 2:15	5.2	0.1	0.0	6.8	11.9	0.0	12/01/2024 2:15	5.4	4.8	0.0	7.0	12.7	0.0
12/01/2024 2:30	5.2	0.1	0.0	6.8	11.9	0.0	12/01/2024 2:30	5.3	4.9	0.0	7.0	12.7	0.0
12/01/2024 2:45	5.1	0.1	0.0	6.8	11.9	0.0	12/01/2024 2:45	5.3	4.5	0.0	7.0	12.7	0.0
12/01/2024 3:00	5.0	0.1	0.0	6.8	11.9	0.0	12/01/2024 3:00	5.3	4.6	0.0	6.9	12.7	0.0
12/01/2024 3:15	4.9	0.1	0.0	6.8	12.0	0.0	12/01/2024 3:15	5.2	4.7	0.0	6.9	12.7	0.0
12/01/2024 3:30	4.9	0.1	0.0	6.8	12.0	0.0	12/01/2024 3:30	5.1	4.8	0.0	6.9	12.8	0.0
12/01/2024 3:45	5.0	0.1	0.0	6.8	12.0	0.0	12/01/2024 3:45	5.1	4.7	0.0	7.0	12.7	0.0
12/01/2024 4:00	5.0	0.1	0.0	6.7	11.9	0.0	12/01/2024 4:00	5.0	4.5	0.0	7.1	12.8	0.0
12/01/2024 4:15	4.8	0.1	0.0	6.7	12.0	0.0	12/01/2024 4:15	4.9	4.7	0.0	7.0	12.8	0.0
12/01/2024 4:30	4.6	0.1	0.0	6.7	12.1	0.0	12/01/2024 4:30	4.8	4.8	0.0	7.0	12.9	0.0
12/01/2024 4:45	4.5	0.1	0.0	6.7	12.1	0.0	12/01/2024 4:45	4.6	4.5	0.0	7.0	12.9	0.0
12/01/2024 5:00	4.4	50.9	0.0	7.1	11.4	0.0	12/01/2024 5:00	5.4	59.9	0.0	6.8	11.9	0.0
12/01/2024 5:15	4.4	50.1	0.0	7.2	11.4	0.0	12/01/2024 5:15	5.4	58.9	0.0	6.8	12.0	0.0
12/01/2024 5:30	4.4	49.3	0.0	7.3	11.4	0.0	12/01/2024 5:30	5.4	58.5	0.0	6.8	12.0	0.0
12/01/2024 5:45	4.4	49.1	0.0	7.3	11.4	0.0	12/01/2024 5:45	5.4	72.2	0.0	6.8	12.0	0.0
12/01/2024 6:00	4.4	49.0	0.0	7.4	11.4	0.0	12/01/2024 6:00	5.4	72.0	0.0	6.8	12.0	0.0
12/01/2024 6:15	4.3	48.8	0.0	7.3	11.4	0.0	12/01/2024 6:15	5.4	73.4	0.0	6.8	12.0	0.0
12/01/2024 6:30	4.4	50.6	0.0	7.3	11.4	0.0	12/01/2024 6:30	5.5	78.5	0.0	6.8	11.8	0.0
12/01/2024 6:45	4.4	51.4	0.0	7.4	11.3	0.0	12/01/2024 6:45	5.4	75.6	0.0	6.8	11.8	0.0
12/01/2024 7:00	4.4	51.0	0.0	7.4	11.3	0.0	12/01/2024 7:00	5.4	73.8	0.0	6.8	11.9	0.0
12/01/2024 7:15	4.3	49.8	0.0	7.3	11.4	0.0	12/01/2024 7:15	5.3	72.2	0.0	6.8	11.9	0.0
12/01/2024 7:30	4.3	48.8	0.0	7.4	11.4	0.0	12/01/2024 7:30	5.3	72.1	0.0	6.8	12.0	0.0
12/01/2024 7:45	4.3	48.6	0.0	7.4	11.5	0.0	12/01/2024 7:45	5.3	73.3	0.0	6.8	12.0	0.0
12/01/2024 8:00	4.3	48.8	0.0	7.4	11.5	0.0	12/01/2024 8:00	5.3	73.9	0.0	6.8	12.0	0.0
12/01/2024 8:15	4.3	49.2	0.0	7.4	11.5	0.0	12/01/2024 8:15	5.3	73.0	0.0	6.8	12.0	0.0
12/01/2024 8:30	4.2	49.0	0.0	7.4	11.5	0.0	12/01/2024 8:30	5.3	74.1	0.0	6.8	12.1	0.0
12/01/2024 8:45	4.2	49.5	0.0	7.4	11.5	0.0	12/01/2024 8:45	5.3	75.6	0.0	6.9	12.0	0.0
12/01/2024 9:00	4.2	50.0	0.0	7.4	11.6	0.0	12/01/2024 9:00	5.3	77.4	0.0	6.9	12.0	0.0
12/01/2024 9:15	4.2	50.4	0.0	7.4	11.6	0.0	12/01/2024 9:15	5.3	76.7	0.0	6.9	12.0	0.0
12/01/2024 9:30	4.2	50.8	0.0	7.5	11.5	0.0	12/01/2024 9:30	5.3	76.4	0.0	6.9	12.1	0.0
12/01/2024 9:45	4.2	50.7	0.0	7.4	11.6	0.0	12/01/2024 9:45	5.3	78.0	0.0	6.9	12.0	0.0
12/01/2024 10:00	4.2	51.2	0.0	7.4	11.5	0.0	12/01/2024 10:00	5.3	77.8	0.0	6.9	12.0	0.0
12/01/2024 10:15	4.2	51.8	0.0	7.4	11.5	0.0	12/01/2024 10:15	5.3	82.5	0.0	6.8	12.0	0.0
12/01/2024 10:30	4.2	53.4	0.0	7.4	11.5	0.0	12/01/2024 10:30	5.4	84.1	0.0	6.8	11.9	0.0
12/01/2024 10:45	4.3	54.5	0.0	7.4	11.5	0.0	12/01/2024 10:45	5.4	82.5	0.0	6.9	11.9	0.0
12/01/2024 11:00	4.3	53.4	0.0	7.4	11.5	0.0	12/01/2024 11:00	5.4	79.7	0.0	6.8	12.0	0.0
12/01/2024 11:15	4.3	52.7	0.0	7.4	11.5	0.0	12/01/2024 11:15	5.4	79.5	0.0	6.8	11.9	0.0
12/01/2024 11:30	4.3	52.5	0.0	7.4	11.4	0.0	12/01/2024 11:30	5.4	79.8	0.0	6.8	11.9	0.0
12/01/2024 11:45	4.3	52.7	0.0	7.4	11.4	0.0	12/01/2024 11:45	5.5	78.5	0.0	6.8	11.9	0.0
12/01/2024 12:00	4.4	51.8	0.0	7.3	11.4	0.0	12/01/2024 12:00	5.5	76.6	0.0	6.8	11.9	0.0
12/01/2024 12:15	4.4	52.3	0.0	7.4	11.4	0.0	12/01/2024 12:15	5.6	79.2	0.0	6.8	11.9	0.0
12/01/2024 12:30	4.5	53.5	0.0	7.3	11.4	0.0	12/01/2024 12:30	5.6	81.6	0.0	6.8	11.8	0.0
12/01													

12/01/2024 14:15	4.7	51.5	0.0	7.4	11.4	0.0	12/01/2024 14:15	5.8	75.4	0.0	6.7	11.9	0.0
12/01/2024 14:30	4.7	50.2	0.0	7.4	11.4	0.0	12/01/2024 14:30	5.8	74.2	0.0	6.7	12.0	0.0
12/01/2024 14:45	4.7	49.8	0.0	7.3	11.5	0.0	12/01/2024 14:45	5.8	74.5	0.0	6.8	12.0	0.0
12/01/2024 15:00	4.7	49.9	0.0	7.3	11.5	0.0	12/01/2024 15:00	5.8	74.2	0.0	6.8	12.0	0.0
12/01/2024 15:15	4.7	49.8	0.0	7.4	11.5	0.0	12/01/2024 15:15	5.8	74.1	0.0	6.8	12.0	0.0
12/01/2024 15:30	4.7	49.8	0.0	7.4	11.5	0.0	12/01/2024 15:30	5.8	74.0	0.0	6.8	12.0	0.0
12/01/2024 15:45	4.7	49.7	0.0	7.4	11.5	0.0	12/01/2024 15:45	5.8	74.4	0.0	6.8	12.0	0.0
12/01/2024 16:00	4.7	50.0	0.0	7.4	11.5	0.0	12/01/2024 16:00	5.8	74.5	0.0	6.8	12.0	0.0
12/01/2024 16:15	4.7	50.0	0.0	7.4	11.5	0.0	12/01/2024 16:15	5.8	75.3	0.0	6.8	12.0	0.0
12/01/2024 16:30	4.7	50.3	0.0	7.4	11.4	0.0	12/01/2024 16:30	5.8	77.7	0.0	6.8	12.0	0.0
12/01/2024 16:45	4.6	51.6	0.0	7.4	11.4	0.0	12/01/2024 16:45	5.8	82.6	0.0	6.8	11.9	0.0
12/01/2024 17:00	4.7	53.6	0.0	7.4	11.4	0.0	12/01/2024 17:00	5.8	83.7	0.0	6.8	11.8	0.0
12/01/2024 17:15	4.6	53.9	0.0	7.4	11.4	0.0	12/01/2024 17:15	5.7	81.3	0.0	6.8	11.8	0.0
12/01/2024 17:30	4.6	53.0	0.0	7.4	11.4	0.0	12/01/2024 17:30	5.7	83.5	0.0	6.8	11.8	0.0
12/01/2024 17:45	4.5	54.4	0.0	7.3	11.4	0.0	12/01/2024 17:45	5.7	83.5	0.0	6.8	11.8	0.0
12/01/2024 18:00	4.5	54.3	0.0	7.4	11.3	0.0	12/01/2024 18:00	5.6	82.2	0.0	6.8	11.9	0.0
12/01/2024 18:15	4.5	53.8	0.0	7.4	11.3	0.0	12/01/2024 18:15	5.6	83.0	0.0	6.8	11.8	0.0
12/01/2024 18:30	4.4	54.1	0.0	7.4	11.3	0.0	12/01/2024 18:30	5.6	82.8	0.0	6.7	11.8	0.0
12/01/2024 18:45	4.4	54.3	0.0	7.3	11.3	0.1	12/01/2024 18:45	5.6	85.6	0.0	6.7	11.7	0.0
12/01/2024 19:00	4.4	56.0	0.0	7.3	11.3	0.0	12/01/2024 19:00	5.6	88.7	0.0	6.6	11.6	0.0
12/01/2024 19:15	4.4	58.0	0.0	7.3	11.2	0.0	12/01/2024 19:15	5.7	93.4	0.0	6.5	11.3	0.0
12/01/2024 19:30	4.6	60.4	0.0	7.3	10.9	1.2	12/01/2024 19:30	5.7	13.8	0.0	6.5	11.7	1.9
12/01/2024 19:45	4.6	0.1	0.0	7.4	12.1	0.0	12/01/2024 19:45	5.3	4.4	0.0	6.8	12.7	0.0
12/01/2024 20:00	4.4	0.1	0.0	7.4	12.1	0.0	12/01/2024 20:00	4.8	4.4	0.0	7.0	12.8	0.0
12/01/2024 20:15	4.3	0.1	0.0	7.4	12.2	0.0	12/01/2024 20:15	4.6	4.6	0.0	6.9	12.9	0.0
12/01/2024 20:30	4.2	0.1	0.0	7.4	12.2	0.0	12/01/2024 20:30	4.3	4.7	0.0	6.9	13.0	0.0
12/01/2024 20:45	4.2	0.1	0.0	7.4	12.2	0.0	12/01/2024 20:45	4.3	4.4	0.0	6.9	13.0	0.0
12/01/2024 21:00	4.2	0.1	0.0	7.4	12.2	0.0	12/01/2024 21:00	4.1	4.5	0.0	6.9	13.1	0.0
12/01/2024 21:15	4.0	0.1	0.0	7.4	12.2	0.0	12/01/2024 21:15	4.0	4.7	0.0	6.9	13.1	0.0
12/01/2024 21:30	4.1	0.1	0.0	7.3	12.2	0.0	12/01/2024 21:30	3.9	4.8	0.0	6.9	13.2	0.0
12/01/2024 21:45	4.0	0.1	0.0	7.3	12.3	0.0	12/01/2024 21:45	3.8	4.6	0.0	6.9	13.2	0.0
12/01/2024 22:00	4.0	0.1	0.0	7.3	12.2	0.0	12/01/2024 22:00	3.8	4.7	0.0	7.0	13.2	0.0
12/01/2024 22:15	4.0	0.1	0.0	7.3	12.2	0.0	12/01/2024 22:15	3.7	4.8	0.0	7.0	13.2	0.0
12/01/2024 22:30	4.0	0.1	0.0	7.3	12.2	0.0	12/01/2024 22:30	3.7	4.8	0.0	7.0	13.2	0.0
12/01/2024 22:45	3.9	0.1	0.0	7.2	12.3	0.0	12/01/2024 22:45	3.6	4.4	0.0	6.9	13.3	0.0
12/01/2024 23:00	3.9	0.1	0.0	7.2	12.3	0.0	12/01/2024 23:00	3.4	4.5	0.0	6.9	13.3	0.0
12/01/2024 23:15	3.9	0.1	0.0	7.2	12.3	0.0	12/01/2024 23:15	3.4	4.7	0.0	6.9	13.3	0.0
12/01/2024 23:30	3.7	0.1	0.0	7.2	12.3	0.0	12/01/2024 23:30	3.3	4.8	0.0	6.9	13.4	0.0
12/01/2024 23:45	3.8	0.1	0.0	7.2	12.3	0.0	12/01/2024 23:45	3.3	4.6	0.0	6.9	13.4	0.0

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	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	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix C	C-2

Woodfibre Site Sample Analysis



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

Reporting Week	Nov. 25 th to Dec. 1 st , 2024
Report #	36
Appendix C	C-3

Woodfibre Site Sample Lab Documentation



CERTIFICATE OF ANALYSIS

Work Order	: VA24D2004	Laboratory	: ALS Environmental - Vancouver
Client	: Triton Environmental Consultants Ltd.	Account Manager	
Contact		Address	
Address			
Telephone		Telephone	
Project	: 11964	Date Samples Received	: 26-Nov-2024 17:10
PO	: 11964 - Task 40 - Phase 3C-4C	Date Analysis Commenced	: 27-Nov-2024
C-O-C number	: ----	Issue Date	: 04-Dec-2024 09:53
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA23-TRIT100-012		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
		Metals, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Organics, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Metals, Burnaby, British Columbia
		Inorganics, Burnaby, British Columbia
		Administration, 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>
mg/L	milligrams per litre
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
pH units	pH units
°C	degrees celsius
-	no units

<: less than.

>: greater than.

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

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

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

Qualifiers

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





Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG EOP	---	---	---	---
Client sampling date / time					26-Nov-2024 11:48	---	---	---	---	---
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	---	---	---	---	---
					Result	---	---	---	---	---
Field Tests										
Conductivity, field	---	EF001/VA	0.10	µS/cm	145.00	---	---	---	---	---
pH, field	---	EF001/VA	0.10	pH units	7.60	---	---	---	---	---
Temperature, field	---	EF001/VA	0.10	°C	8.80	---	---	---	---	---
Physical Tests										
Hardness (as CaCO3), dissolved	---	EC100/VA	0.60	mg/L	56.3	---	---	---	---	---
Hardness (as CaCO3), from total Ca/Mg	---	EC100A/VA	0.60	mg/L	57.3	---	---	---	---	---
Solids, total dissolved [TDS]	---	E162/VA	10	mg/L	77	---	---	---	---	---
Solids, total suspended [TSS]	---	E160/VA	3.0	mg/L	<3.0	---	---	---	---	---
Alkalinity, total (as CaCO3)	---	E290/VA	2.0	mg/L	61.5	---	---	---	---	---
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0103	---	---	---	---	---
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	1.29	---	---	---	---	---
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.192	---	---	---	---	---
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L	0.0211	---	---	---	---	---
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L	<0.0010	---	---	---	---	---
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	4.59	---	---	---	---	---
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	---	E358-L/VA	0.50	mg/L	<0.50	---	---	---	---	---
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/VA	0.0015	mg/L	<0.0015	---	---	---	---	---



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNQ EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Total Sulfides										
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	0.108	----	----	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00058	----	----	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00353	----	----	----	----	----
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	<0.010	----	----	----	----	----
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000100 ^{DLM}	----	----	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	21.2	----	----	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000013	----	----	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00250	----	----	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.026	----	----	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000781	----	----	----	----	----
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0020	----	----	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	1.07	----	----	----	----	----
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00201	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Total Metals										
Mercury, total	7439-97-6	E508/VA	0.000050	mg/L	<0.000050	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.0156	----	----	----	----	----
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.909	----	----	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00158	----	----	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000086	----	----	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	6.26	----	----	----	----	----
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	3.27	----	----	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0413	----	----	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	1.58	----	----	----	----	----
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	----	----	----	----	----
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
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	0.00090	----	----	----	----	----
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	0.00025	----	----	----	----	----
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.00149	----	----	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0075	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNQ EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Total Metals										
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	0.0032	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L	0.00036	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00348	----	----	----	----	----
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	<0.010	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L	<0.0000050	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	20.9	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00220	----	----	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	<0.010	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	0.000359	----	----	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	0.0021	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.996	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00152	----	----	----	----	----
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L	<0.0000050	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNQ EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Dissolved Metals										
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L	0.0165	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	0.819	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00147	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	0.000053	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	5.76	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L	3.10	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0416	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	1.41	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/VA	0.00020	mg/L	<0.00020	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/VA	0.000010	mg/L	<0.000010	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/VA	0.00010	mg/L	<0.00010	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/VA	0.00030	mg/L	<0.00030	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	0.00026	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000577	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L	0.0047	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNQ EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Dissolved Metals										
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	----	----	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-	Field	----	----	----	----	----
Speciated Metals										
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
Chromium, trivalent [Cr III], total	16065-83-1	EC535/VA	0.00050	mg/L	<0.00050	----	----	----	----	----
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	----	----	----	----	----
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-1,3-	10061-01-5	E611C/VA	0.50	µg/L	<0.50	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611C/VA	0.75	µg/L	<0.75	----	----	----	----	----
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	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	
						Result	----	----	----	----
Volatile Organic Compounds [Drycleaning]										
Dichloroethane, 1,1-	75-34-3	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Dichloroethane, 1,2-	107-06-2	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Dichloroethylene, 1,1-	75-35-4	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Dichloroethylene, cis-1,2-	156-59-2	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Dichloroethylene, trans-1,2-	156-60-5	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Dichloromethane	75-09-2	E611CVA	1.0	µg/L	<1.0	----	----	----	----	
Dichloropropylene, trans-1,3-	10061-02-6	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Tetrachloroethylene	127-18-4	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Trichloroethane, 1,1,1-	71-55-6	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Trichloroethylene	79-01-6	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Vinyl chloride	75-01-4	E611CVA	0.40	µg/L	<0.40	----	----	----	----	
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Ethylbenzene	100-41-4	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Styrene	100-42-5	E611CVA	0.50	µg/L	<0.50	----	----	----	----	
Toluene	108-88-3	E611CVA	0.40	µg/L	<0.40	----	----	----	----	
Xylene, m+p-	179601-23-1	E611CVA	0.40	µg/L	<0.40	----	----	----	----	
Xylene, o-	95-47-6	E611CVA	0.30	µg/L	<0.30	----	----	----	----	
Xylenes, total	1330-20-7	E611CVA	0.50	µg/L	<0.50	----	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNQ EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
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/V A	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	%	92.0	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/V A	1.0	%	111	----	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611C/VA	1.0	%	91.8	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611C/VA	1.0	%	101	----	----	----	----	----
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	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Anthracene	120-12-7	E641A/VA	0.010	µg/L	<0.010	----	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/VA	0.010	µg/L	<0.010	----	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/VA	0.0050	µg/L	<0.0050	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/VA	0.010	µg/L	<0.010	----	----	----	----	----
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	<0.010	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/VA	0.010	µg/L	<0.010	----	----	----	----	----
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	%	109	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/VA	0.1	%	112	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG EOP	----	----	----	----
					Client sampling date / time	26-Nov-2024 11:48	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2004-001	----	----	----	----	----
						Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Phenanthrene-d10	1517-22-2	E641A/VA	0.1	%	112	----	----	----	----	----
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	%	102	----	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA24D2004</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 40 - 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 13</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : [REDACTED]</p> <p>Address : [REDACTED]</p> <p>Telephone : [REDACTED]</p> <p>Date Samples Received : 26-Nov-2024 17:10</p> <p>Issue Date : 04-Dec-2024 09:52</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 EOP	E298	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	01-Dec-2024	28 days	5 days	✔	
Anions and Nutrients : Bromide in Water by IC (Low Level)											
HDPE WLNG EOP	E235.Br-L	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔	
Anions and Nutrients : Chloride in Water by IC											
HDPE WLNG EOP	E235.Cl	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔	
Anions and Nutrients : Fluoride in Water by IC											
HDPE WLNG EOP	E235.F	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG EOP	E235.NO3-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✔	27-Nov-2024	3 days	1 days	✔	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG EOP	E235.NO2-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✔	27-Nov-2024	3 days	1 days	✔	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG EOP	E235.SO4	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-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		
Dissolved Metals : Dissolved Mercury in Water by CVAAS											
Glass vial dissolved (hydrochloric acid) WLNG EOP	E509	26-Nov-2024	03-Dec-2024	28 days	7 days	✓	03-Dec-2024	28 days	7 days	✓	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) WLNG EOP	E421	26-Nov-2024	28-Nov-2024	180 days	2 days	✓	29-Nov-2024	180 days	3 days	✓	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine											
Glass vial dissolved (hydrochloric acid) WLNG EOP	EF001	26-Nov-2024	----	----	----		27-Nov-2024	----	1 days		
Glycols : Glycols (4 analytes) by GC-FID											
Glass vial WLNG EOP	E680E	26-Nov-2024	27-Nov-2024	7 days	1 days	✓	27-Nov-2024	40 days	0 days	✓	
Hydrocarbons : BC PHCs - EPH by GC-FID											
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E601A	26-Nov-2024	03-Dec-2024	14 days	7 days	✓	03-Dec-2024	40 days	0 days	✓	
Hydrocarbons : VH and F1 by Headspace GC-FID											
Glass vial (sodium bisulfate) WLNG EOP	E581.VH+F1	26-Nov-2024	30-Nov-2024	14 days	4 days	✓	01-Dec-2024	14 days	5 days	✓	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (sulfuric acid) WLNG EOP	E358-L	26-Nov-2024	27-Nov-2024	28 days	1 days	✓	28-Nov-2024	28 days	2 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE WLNG EOP	E290	26-Nov-2024	27-Nov-2024	14 days	1 days	✓	27-Nov-2024	14 days	1 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE WLNG EOP	E162	26-Nov-2024	----	----	----		29-Nov-2024	7 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	
Physical Tests : TSS by Gravimetry										
HDPE WLNG EOP	E160	26-Nov-2024	----	----	----		29-Nov-2024	7 days	3 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) WLNG EOP	E641A	26-Nov-2024	03-Dec-2024	14 days	7 days	✓	03-Dec-2024	40 days	0 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide) WLNG EOP	E532	26-Nov-2024	----	----	----		26-Nov-2024	28 days	0 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) WLNG EOP	E508	26-Nov-2024	02-Dec-2024	28 days	6 days	✓	02-Dec-2024	28 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) WLNG EOP	E420	26-Nov-2024	28-Nov-2024	180 days	2 days	✓	29-Nov-2024	180 days	3 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) WLNG EOP	E395	26-Nov-2024	----	----	----		27-Nov-2024	7 days	1 days	✓
Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS										
Glass vial (sodium bisulfate) WLNG EOP	E611C	26-Nov-2024	30-Nov-2024	14 days	4 days	✓	01-Dec-2024	14 days	5 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	1785195	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1786827	1	14	7.1	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1785191	1	7	14.2	5.0	✓
Chloride in Water by IC	E235.Cl	1785188	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1786828	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1785190	1	7	14.2	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1785314	1	5	20.0	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785192	1	7	14.2	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785193	1	7	14.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1785189	1	20	5.0	5.0	✓
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✓
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✓
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1790715	1	12	8.3	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1790716	1	14	7.1	5.0	✓
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1785195	1	20	5.0	5.0	✓
Ammonia by Fluorescence	E298	1786827	1	14	7.1	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1792746	1	9	11.1	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1785191	1	7	14.2	5.0	✓
Chloride in Water by IC	E235.Cl	1785188	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1786828	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1785190	1	7	14.2	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1785314	1	5	20.0	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785192	1	7	14.2	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785193	1	7	14.2	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1792748	1	14	7.1	5.0	✓
Sulfate in Water by IC	E235.SO4	1785189	1	20	5.0	5.0	✓
TDS by Gravimetry	E162	1790009	1	20	5.0	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
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1790715	1	12	8.3	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1790716	1	14	7.1	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1785195	1	20	5.0	5.0	✔
Ammonia by Fluorescence	E298	1786827	1	14	7.1	5.0	✔
BC PHCs - EPH by GC-FID	E601A	1792746	1	9	11.1	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785191	1	7	14.2	5.0	✔
Chloride in Water by IC	E235.Cl	1785188	1	20	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1786828	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785190	1	7	14.2	5.0	✔
Glycols (4 analytes) by GC-FID	E680E	1785314	1	5	20.0	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785192	1	7	14.2	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785193	1	7	14.2	5.0	✔
PAHs in Water by Hexane LVI GC-MS	E641A	1792748	1	14	7.1	5.0	✔
Sulfate in Water by IC	E235.SO4	1785189	1	20	5.0	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1790715	1	12	8.3	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1790716	1	14	7.1	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1786827	1	14	7.1	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785191	1	7	14.2	5.0	✔
Chloride in Water by IC	E235.Cl	1785188	1	20	5.0	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1786828	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785190	1	7	14.2	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785192	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							
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785193	1	7	14.2	5.0	✔
Sulfate in Water by IC	E235.SO4	1785189	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	1790715	1	12	8.3	5.0	✔
VOCs (BC List) by Headspace GC-MS	E611C	1790716	1	14	7.1	5.0	✔



Methodology References and Summaries

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

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



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Ammonia by Fluorescence	E298 ALS Environmental - Vancouver	Water	Method Fialab 100, 2018	Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021)
Dissolved Organic Carbon by Combustion (Low Level)	E358-L ALS Environmental - Vancouver	Water	APHA 5310 B (mod)	Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC).
Total 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.
Total Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Vancouver	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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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)	<p>Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.</p> <p>Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.</p>
BC PHCs - EPH by GC-FID	E601A 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)	<p>Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.</p> <p>Total Xylenes is the sum of m,p-Xylene & 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.</p>
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.
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.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Un-ionized Total Hydrogen Sulfide (calculated)	EC395 ALS Environmental - Vancouver	Water	APHA 4500 -S H	Un-ionized sulfide is calculated using results from total sulfide analysis, pH, temperature, and ionic strength of the sample. Calculation of un-ionized sulfide using total sulfide concentrations may be biased high due to particulate forms of sulfide measured during total sulfide testing.
Total Trivalent Chromium (Cr III) by Calculation	EC535 ALS Environmental - Vancouver	Water	APHA 3030B/6020A/EPA 7196A (mod)	Chromium (III)-Total is calculated as the difference between the total chromium and the total hexavalent chromium (Cr(VI)) results. The Limit of Reporting for Chromium (III) varies as a function of the test results.
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
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.



<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
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 : **VA24D2004**
Client : Triton Environmental Consultants Ltd.
Contact : [Redacted]
Address : [Redacted]
Telephone : ----
Project : 11964
PO : 11964 - Task 40 - Phase 3C-4C
C-O-C number : ----
Sampler : ----
Site : Water Analysis
Quote number : VA23-TRIT100-012_V2
No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 23
Laboratory : ALS Environmental - Vancouver
Account Manager : [Redacted]
Address : [Redacted]
Telephone : [Redacted]
Date Samples Received : 26-Nov-2024 17:10
Date Analysis Commenced : 26-Nov-2024
Issue Date : 04-Dec-2024 09:52

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]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Metals, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Inorganics, Burnaby, British Columbia
[Redacted]	[Redacted]	Vancouver Administration, Burnaby, British Columbia

Page : 2 of 23
Work Order : VA24D2004
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: 1785195)											
VA24D2015-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	49.3	49.3	0.00%	20%	----
Physical Tests (QC Lot: 1790007)											
FJ2403573-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	8.7	9.9	1.2	Diff <2x LOR	----
Physical Tests (QC Lot: 1790009)											
FJ2403573-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	290	302	4.05%	20%	----
Anions and Nutrients (QC Lot: 1785188)											
VA24D2004-001	WLNG EOP	Chloride	16887-00-6	E235.Cl	0.50	mg/L	1.29	1.28	0.007	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785189)											
VA24D2004-001	WLNG EOP	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	4.59	4.59	0.0736%	20%	----
Anions and Nutrients (QC Lot: 1785190)											
VA24D2004-001	WLNG EOP	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.192	0.194	0.003	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785191)											
VA24D2004-001	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: 1785192)											
VA24D2004-001	WLNG EOP	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.0211	0.0210	0.00008	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785193)											
VA24D2004-001	WLNG EOP	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: 1786827)											
VA24D1887-001	Anonymous	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: 1786828)											
VA24D1887-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	2.48	2.50	0.02	Diff <2x LOR	----
Total Sulfides (QC Lot: 1785867)											
VA24D2004-001	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: 1785748)											
VA24D1939-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0094	0.0088	0.0006	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00076	0.00077	0.000008	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0903	0.0894	0.903%	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	----



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: 1785748) - continued											
VA24D1939-001	Anonymous	Boron, total	7440-42-8	E420	0.010	mg/L	0.039	0.038	0.0008	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000100	mg/L	<0.0000100	<0.0000100	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	156	154	1.48%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000012	0.000011	0.000001	Diff <2x LOR	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00130	0.00130	0.000004	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.021	0.020	0.0009	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	0.0094	0.0091	0.0003	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	53.4	53.2	0.354%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0226	0.0224	0.905%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.0405	0.0409	1.05%	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	0.300	mg/L	<0.300	<0.300	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	12.9	12.4	3.50%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00170	0.00153	0.00017	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000477	0.000480	0.000002	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	13.3	13.2	0.644%	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	82.3	81.9	0.426%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	1.11	1.12	1.26%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	185	184	0.650%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	0.00022	0.00023	0.000008	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	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.00397	0.00408	2.66%	20%	----
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00207	0.00210	0.00003	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: 1792002)											



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: 1792002) - continued											
VA24D1962-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1785768)											
VA24D1844-001	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	0.00012	0.00013	0.000003	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00300	0.00286	4.60%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0745	0.0743	0.263%	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	0.00134	0.00134	0.596%	20%	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	175	175	0.128%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.00159	0.00164	3.08%	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	0.00012	0.00013	0.00001	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00300	0.00287	4.12%	20%	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0117	0.0120	2.65%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.100	mg/L	43.8	44.2	0.960%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0196	0.0190	3.41%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00102	0.00104	2.12%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.0114	0.0112	1.57%	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	0.100	mg/L	1.80	1.79	0.573%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00408	0.00398	2.30%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.0275	0.0271	1.18%	20%	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	9.36	9.08	2.94%	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	12.1	11.6	3.98%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.511	0.508	0.625%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	20.5	20.5	0.178%	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	----



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: 1785768) - continued											
VA24D1844-001	Anonymous	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	0.00436	0.00429	1.66%	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	0.0789	0.0780	1.14%	20%	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1794302)											
VA24D1844-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1785004)											
FJ2403566-004	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1790716)											
VA24D1917-001	Anonymous	Benzene	71-43-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromodichloromethane	75-27-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Bromoform	75-25-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Carbon tetrachloride	56-23-5	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chlorobenzene	108-90-7	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroethane	75-00-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloroform	67-66-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Chloromethane	74-87-3	E611C	5.0	µg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Dibromochloromethane	124-48-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,2-	95-50-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,3-	541-73-1	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichlorobenzene, 1,4-	106-46-7	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,1-	75-34-3	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethane, 1,2-	107-06-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, 1,1-	75-35-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Dichloroethylene, cis-1,2-	156-59-2	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		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	----		



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: 1790716) - continued											
VA24D1917-001	Anonymous	Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Styrene	100-42-5	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	----
		Tetrachloroethylene	127-18-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichloroethylene	79-01-6	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Trichlorofluoromethane	75-69-4	E611C	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Vinyl chloride	75-01-4	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611C	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611C	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1790715)											
VA24D1917-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	<100	0.0%	30%	----
Glycols (QC Lot: 1785314)											
VA24D1897-001	Anonymous	Diethylene glycol	111-46-6	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Ethylene glycol	107-21-1	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Propylene glycol, 1,2-	57-55-6	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Triethylene glycol	112-27-6	E680E	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----



Method Blank (MB) Report

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

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1785195)						
Alkalinity, total (as CaCO3)	---	E290	1	mg/L	<1.0	---
Physical Tests (QCLot: 1790007)						
Solids, total suspended [TSS]	---	E160	3	mg/L	<3.0	---
Physical Tests (QCLot: 1790009)						
Solids, total dissolved [TDS]	---	E162	10	mg/L	<10	---
Anions and Nutrients (QCLot: 1785188)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	---
Anions and Nutrients (QCLot: 1785189)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	---
Anions and Nutrients (QCLot: 1785190)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	---
Anions and Nutrients (QCLot: 1785191)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	---
Anions and Nutrients (QCLot: 1785192)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	---
Anions and Nutrients (QCLot: 1785193)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	---
Anions and Nutrients (QCLot: 1786827)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	---
Organic / Inorganic Carbon (QCLot: 1786828)						
Carbon, dissolved organic [DOC]	---	E358-L	0.5	mg/L	<0.50	---
Total Sulfides (QCLot: 1785867)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	---
Total Metals (QCLot: 1785748)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	---
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	---
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	---
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	---
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	---
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	---
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	---
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	---



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1785748) - continued						
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	----
Total Metals (QCLot: 1792002)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1785768)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1785768) - continued						
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	----
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	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1785768) - continued						
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: 1794302)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1785004)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----
Volatile Organic Compounds (QCLot: 1790716)						
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	----
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, 1,1,1,1,2-	630-20-6	E611C	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2,2-	79-34-5	E611C	0.2	µg/L	<0.20	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	<0.50	----



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1790716) - continued						
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: 1790715)						
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	----
Hydrocarbons (QCLot: 1792746)						
EPH (C10-C19)	----	E601A	250	µg/L	<250	----
EPH (C19-C32)	----	E601A	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1792748)						
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	----
Benzo(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	----
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: 1785314)						



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>
Glycols (QCLot: 1785314) - continued						
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: 1785195)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	108	85.0	115	----
Physical Tests (QCLot: 1790007)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	99.5	85.0	115	----
Physical Tests (QCLot: 1790009)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1785188)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	96.8	90.0	110	----
Anions and Nutrients (QCLot: 1785189)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	97.2	90.0	110	----
Anions and Nutrients (QCLot: 1785190)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	96.2	90.0	110	----
Anions and Nutrients (QCLot: 1785191)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	108	85.0	115	----
Anions and Nutrients (QCLot: 1785192)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	96.3	90.0	110	----
Anions and Nutrients (QCLot: 1785193)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	95.1	90.0	110	----
Anions and Nutrients (QCLot: 1786827)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	96.4	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1786828)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	107	80.0	120	----
Total Sulfides (QCLot: 1785867)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	100	80.0	120	----
Total Metals (QCLot: 1785748)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	107	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	103	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	107	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	102	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1785748) - continued									
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	101	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	97.9	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	106	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	97.7	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	95.5	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	104	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	95.0	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	101	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	109	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	96.6	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	102	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	105	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	103	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	110	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	91.0	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	97.0	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	95.9	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	95.6	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	104	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	99.3	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	99.3	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	104	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	104	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	106	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	107	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	96.7	80.0	120	----
Total Metals (QCLot: 1792002)									



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: 1792002) - continued									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 1785768)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	96.4	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	102	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	97.0	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	97.7	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	97.0	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	101	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	96.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	97.5	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	98.8	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	98.6	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	98.4	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	99.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	95.5	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	93.6	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	100	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	100	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	96.0	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	93.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	98.8	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.3	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	100	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	96.1	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	99.6	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	100	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	90.2	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	96.4	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	97.4	80.0	120	----



Sub-Matrix: **Water**

Laboratory Control Sample (LCS) Report

Analyte	CAS Number	Method	LOR	Unit	Spike		Recovery (%)		Recovery Limits (%)		Qualifier
					Target Concentration	LCS	Low	High			
Dissolved Metals (QCLot: 1785768) - continued											
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	92.0	80.0	120	120	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	96.0	80.0	120	120	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.7	80.0	120	120	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	100.0	80.0	120	120	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	98.9	80.0	120	120	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	96.5	80.0	120	120	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	100	80.0	120	120	120	----
Speciated Metals (QCLot: 1785004)											
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	101	80.0	120	120	120	----
Volatile Organic Compounds (QCLot: 1790716)											
Benzene	71-43-2	E611C	0.5	µg/L	100 µg/L	96.3	70.0	130	130	130	----
Bromodichloromethane	75-27-4	E611C	0.5	µg/L	100 µg/L	91.0	70.0	130	130	130	----
Bromoform	75-25-2	E611C	0.5	µg/L	100 µg/L	102	70.0	130	130	130	----
Carbon tetrachloride	56-23-5	E611C	0.5	µg/L	100 µg/L	95.7	70.0	130	130	130	----
Chlorobenzene	108-90-7	E611C	0.5	µg/L	100 µg/L	101	70.0	130	130	130	----
Chloroethane	75-00-3	E611C	0.5	µg/L	100 µg/L	113	60.0	140	140	140	----
Chloroform	67-66-3	E611C	0.5	µg/L	100 µg/L	97.2	70.0	130	130	130	----
Chloromethane	74-87-3	E611C	5	µg/L	100 µg/L	104	60.0	140	140	140	----
Dibromochloromethane	124-48-1	E611C	0.5	µg/L	100 µg/L	94.1	70.0	130	130	130	----
Dichlorobenzene, 1,2-	95-50-1	E611C	0.5	µg/L	100 µg/L	105	70.0	130	130	130	----
Dichlorobenzene, 1,3-	541-73-1	E611C	0.5	µg/L	100 µg/L	110	70.0	130	130	130	----
Dichlorobenzene, 1,4-	106-46-7	E611C	0.5	µg/L	100 µg/L	110	70.0	130	130	130	----
Dichloroethane, 1,1-	75-34-3	E611C	0.5	µg/L	100 µg/L	82.2	70.0	130	130	130	----
Dichloroethane, 1,2-	107-06-2	E611C	0.5	µg/L	100 µg/L	94.5	70.0	130	130	130	----
Dichloroethylene, 1,1-	75-35-4	E611C	0.5	µg/L	100 µg/L	97.7	70.0	130	130	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611C	0.5	µg/L	100 µg/L	96.6	70.0	130	130	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611C	0.5	µg/L	100 µg/L	97.9	70.0	130	130	130	----
Dichloromethane	75-09-2	E611C	1	µg/L	100 µg/L	96.1	70.0	130	130	130	----
Dichloropropane, 1,2-	78-87-5	E611C	0.5	µg/L	100 µg/L	97.6	70.0	130	130	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611C	0.5	µg/L	100 µg/L	86.1	70.0	130	130	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611C	0.5	µg/L	100 µg/L	87.4	70.0	130	130	130	----
Ethylbenzene	100-41-4	E611C	0.5	µg/L	100 µg/L	102	70.0	130	130	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	0.5	µg/L	100 µg/L	102	70.0	130	130	130	----
Styrene	100-42-5	E611C	0.5	µg/L	100 µg/L	104	70.0	130	130	130	----



Sub-Matrix: **Water**

Laboratory Control Sample (LCS) Report

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Target Concentration	Recovery (%)	Recovery Limits (%)		Qualifier
					LCS	Low	High		
Volatile Organic Compounds (QCLot: 1790716) - continued									
Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.5	µg/L	100 µg/L	98.2	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.2	µg/L	100 µg/L	96.6	70.0	130	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	100 µg/L	99.9	70.0	130	----
Toluene	108-88-3	E611C	0.4	µg/L	100 µg/L	102	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611C	0.5	µg/L	100 µg/L	97.4	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611C	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Trichloroethylene	79-01-6	E611C	0.5	µg/L	100 µg/L	96.2	70.0	130	----
Trichlorofluoromethane	75-69-4	E611C	0.5	µg/L	100 µg/L	103	60.0	140	----
Vinyl chloride	75-01-4	E611C	0.4	µg/L	100 µg/L	103	60.0	140	----
Xylene, m+p-	179601-23-1	E611C	0.4	µg/L	200 µg/L	108	70.0	130	----
Xylene, o-	95-47-6	E611C	0.3	µg/L	100 µg/L	97.4	70.0	130	----
Hydrocarbons (QCLot: 1790715)									
VHw (C6-C10)	---	E581.VH+F1	100	µg/L	6310 µg/L	99.4	70.0	130	----
Hydrocarbons (QCLot: 1792746)									
EPH (C10-C19)	---	E601A	250	µg/L	6490 µg/L	97.4	70.0	130	----
EPH (C19-C32)	---	E601A	250	µg/L	3360 µg/L	99.4	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1792748)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5 µg/L	117	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5 µg/L	119	60.0	130	----
Acridine	260-94-6	E641A	0.01	µg/L	0.5 µg/L	89.8	60.0	130	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5 µg/L	113	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5 µg/L	90.0	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5 µg/L	90.5	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5 µg/L	102	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5 µg/L	124	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5 µg/L	99.0	60.0	130	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5 µg/L	104	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5 µg/L	109	60.0	130	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5 µg/L	109	60.0	130	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5 µg/L	108	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5 µg/L	120	60.0	130	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5 µg/L	115	50.0	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: 1792748) - continued									
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5 µg/L	115	60.0	130	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5 µg/L	107	60.0	130	----
Quinoline	91-22-5	E641A	0.05	µg/L	0.5 µg/L	107	60.0	130	----
Glycols (QCLot: 1785314)									
Diethylene glycol	111-46-6	E680E	5	mg/L	25 mg/L	85.9	70.0	130	----
Ethylene glycol	107-21-1	E680E	5	mg/L	25 mg/L	90.9	70.0	130	----
Propylene glycol, 1,2-	57-55-6	E680E	5	mg/L	25 mg/L	91.7	70.0	130	----
Triethylene glycol	112-27-6	E680E	5	mg/L	25 mg/L	82.0	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: 1785188)										
VA24D2015-001	Anonymous	Chloride	16887-00-6	E235.Cl	97.7 mg/L	100 mg/L	97.7	75.0	125	----
Anions and Nutrients (QCLot: 1785189)										
VA24D2015-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	99.6 mg/L	100 mg/L	99.6	75.0	125	----
Anions and Nutrients (QCLot: 1785190)										
VA24D2015-001	Anonymous	Fluoride	16984-48-8	E235.F	0.987 mg/L	1 mg/L	98.7	75.0	125	----
Anions and Nutrients (QCLot: 1785191)										
VA24D2015-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.526 mg/L	0.5 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 1785192)										
VA24D2015-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.45 mg/L	2.5 mg/L	98.0	75.0	125	----
Anions and Nutrients (QCLot: 1785193)										
VA24D2015-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.471 mg/L	0.5 mg/L	94.2	75.0	125	----
Anions and Nutrients (QCLot: 1786827)										
VA24D1911-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0995 mg/L	0.1 mg/L	99.5	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1786828)										
VA24D1911-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	5.32 mg/L	5 mg/L	106	70.0	130	----
Total Sulfides (QCLot: 1785867)										
VA24D2007-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.184 mg/L	0.2 mg/L	92.2	75.0	125	----
Total Metals (QCLot: 1785748)										
VA24D1968-001	Anonymous	Aluminum, total	7429-90-5	E420	0.197 mg/L	0.2 mg/L	98.3	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0197 mg/L	0.02 mg/L	98.3	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0211 mg/L	0.02 mg/L	105	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0374 mg/L	0.04 mg/L	93.4	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00968 mg/L	0.01 mg/L	96.8	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00414 mg/L	0.004 mg/L	104	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00963 mg/L	0.01 mg/L	96.3	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	----
		Copper, total	7440-50-8	E420	0.0187 mg/L	0.02 mg/L	93.6	70.0	130	----
		Iron, total	7439-89-6	E420	ND mg/L	----	ND	70.0	130	----
		Lead, total	7439-92-1	E420	0.0196 mg/L	0.02 mg/L	98.2	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0887 mg/L	0.1 mg/L	88.7	70.0	130	----



Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1785748) - continued										
VA24D1968-001	Anonymous	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	0.0199 mg/L	0.02 mg/L	99.6	70.0	130	---
		Nickel, total	7440-02-0	E420	0.0375 mg/L	0.04 mg/L	93.8	70.0	130	---
		Phosphorus, total	7723-14-0	E420	10.1 mg/L	10 mg/L	101	70.0	130	---
		Potassium, total	7440-09-7	E420	ND mg/L	---	ND	70.0	130	---
		Rubidium, total	7440-17-7	E420	0.0198 mg/L	0.02 mg/L	99.0	70.0	130	---
		Selenium, total	7782-49-2	E420	0.0406 mg/L	0.04 mg/L	101	70.0	130	---
		Silicon, total	7440-21-3	E420	ND mg/L	---	ND	70.0	130	---
		Silver, total	7440-22-4	E420	0.00378 mg/L	0.004 mg/L	94.6	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	19.9 mg/L	20 mg/L	99.5	70.0	130	---
		Tellurium, total	13494-80-9	E420	0.0396 mg/L	0.04 mg/L	99.0	70.0	130	---
		Thallium, total	7440-28-0	E420	0.00390 mg/L	0.004 mg/L	97.4	70.0	130	---
		Thorium, total	7440-29-1	E420	0.0180 mg/L	0.02 mg/L	90.3	70.0	130	---
		Tin, total	7440-31-5	E420	0.0195 mg/L	0.02 mg/L	97.6	70.0	130	---
		Titanium, total	7440-32-6	E420	0.0404 mg/L	0.04 mg/L	101	70.0	130	---
		Tungsten, total	7440-33-7	E420	0.0202 mg/L	0.02 mg/L	101	70.0	130	---
		Uranium, total	7440-61-1	E420	0.00424 mg/L	0.004 mg/L	106	70.0	130	---
		Vanadium, total	7440-62-2	E420	0.101 mg/L	0.1 mg/L	101	70.0	130	---
		Zinc, total	7440-66-6	E420	0.373 mg/L	0.4 mg/L	93.2	70.0	130	---
		Zirconium, total	7440-67-7	E420	0.0403 mg/L	0.04 mg/L	101	70.0	130	---
Total Metals (QCLot: 1792002)										
VA24D1963-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000927 mg/L	0 mg/L	92.7	70.0	130	---
Dissolved Metals (QCLot: 1785768)										
VA24D1844-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.367 mg/L	0.4 mg/L	91.8	70.0	130	---
		Antimony, dissolved	7440-36-0	E421	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	---
		Arsenic, dissolved	7440-38-2	E421	ND mg/L	---	ND	70.0	130	---
		Barium, dissolved	7440-39-3	E421	0.0381 mg/L	0.04 mg/L	95.3	70.0	130	---
		Beryllium, dissolved	7440-41-7	E421	0.0756 mg/L	0.08 mg/L	94.6	70.0	130	---
		Bismuth, dissolved	7440-69-9	E421	0.0176 mg/L	0.02 mg/L	88.2	70.0	130	---
		Boron, dissolved	7440-42-8	E421	0.197 mg/L	0.2 mg/L	98.3	70.0	130	---
		Cadmium, dissolved	7440-43-9	E421	0.00751 mg/L	0.008 mg/L	93.9	70.0	130	---
		Calcium, dissolved	7440-70-2	E421	ND mg/L	---	ND	70.0	130	---
		Cesium, dissolved	7440-46-2	E421	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	---
		Chromium, dissolved	7440-47-3	E421	0.0749 mg/L	0.08 mg/L	93.6	70.0	130	---
		Cobalt, dissolved	7440-48-4	E421	0.0377 mg/L	0.04 mg/L	94.2	70.0	130	---
		Copper, dissolved	7440-50-8	E421	0.0367 mg/L	0.04 mg/L	91.7	70.0	130	---
		Iron, dissolved	7439-89-6	E421	ND mg/L	---	ND	70.0	130	---
		Lead, dissolved	7439-92-1	E421	0.0367 mg/L	0.04 mg/L	91.6	70.0	130	---
		Lithium, dissolved	7439-93-2	E421	0.184 mg/L	0.2 mg/L	92.2	70.0	130	---
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	---	ND	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: 1785768) - continued										
VA24D1844-002	Anonymous	Manganese, dissolved	7439-96-5	E421	ND mg/L	---	ND	70.0	130	---
		Molybdenum, dissolved	7439-98-7	E421	0.0400 mg/L	0.04 mg/L	99.9	70.0	130	---
		Nickel, dissolved	7440-02-0	E421	0.0719 mg/L	0.08 mg/L	89.9	70.0	130	---
		Phosphorus, dissolved	7723-14-0	E421	18.7 mg/L	20 mg/L	93.6	70.0	130	---
		Potassium, dissolved	7440-09-7	E421	7.58 mg/L	8 mg/L	94.8	70.0	130	---
		Rubidium, dissolved	7440-17-7	E421	0.0396 mg/L	0.04 mg/L	99.0	70.0	130	---
		Selenium, dissolved	7782-49-2	E421	0.0847 mg/L	0.08 mg/L	106	70.0	130	---
		Silicon, dissolved	7440-21-3	E421	ND mg/L	---	ND	70.0	130	---
		Silver, dissolved	7440-22-4	E421	0.00767 mg/L	0.008 mg/L	95.9	70.0	130	---
		Sodium, dissolved	7440-23-5	E421	ND mg/L	---	ND	70.0	130	---
		Strontium, dissolved	7440-24-6	E421	ND mg/L	---	ND	70.0	130	---
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	---	ND	70.0	130	---
		Tellurium, dissolved	13494-80-9	E421	0.0828 mg/L	0.08 mg/L	103	70.0	130	---
		Thallium, dissolved	7440-28-0	E421	0.00727 mg/L	0.008 mg/L	90.9	70.0	130	---
		Thorium, dissolved	7440-29-1	E421	0.0337 mg/L	0.04 mg/L	84.3	70.0	130	---
		Tin, dissolved	7440-31-5	E421	0.0383 mg/L	0.04 mg/L	95.7	70.0	130	---
		Titanium, dissolved	7440-32-6	E421	0.0784 mg/L	0.08 mg/L	98.0	70.0	130	---
		Tungsten, dissolved	7440-33-7	E421	0.0371 mg/L	0.04 mg/L	92.8	70.0	130	---
		Uranium, dissolved	7440-61-1	E421	ND mg/L	---	ND	70.0	130	---
		Vanadium, dissolved	7440-62-2	E421	0.196 mg/L	0.2 mg/L	97.8	70.0	130	---
		Zinc, dissolved	7440-66-6	E421	0.728 mg/L	0.8 mg/L	91.1	70.0	130	---
		Zirconium, dissolved	7440-67-7	E421	0.0778 mg/L	0.08 mg/L	97.2	70.0	130	---
Dissolved Metals (QCLot: 1794302)										
VA24D1844-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000984 mg/L	0 mg/L	98.4	70.0	130	---
Speciated Metals (QCLot: 1785004)										
FJ2403566-005	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.260 mg/L	0.25 mg/L	104	70.0	130	---
Volatile Organic Compounds (QCLot: 1790716)										
VA24D1917-002	Anonymous	Benzene	71-43-2	E611C	92.9 µg/L	100 µg/L	92.9	60.0	140	---
		Bromodichloromethane	75-27-4	E611C	90.5 µg/L	100 µg/L	90.5	60.0	140	---
		Bromoform	75-25-2	E611C	94.8 µg/L	100 µg/L	94.8	60.0	140	---
		Carbon tetrachloride	56-23-5	E611C	89.5 µg/L	100 µg/L	89.5	60.0	140	---
		Chlorobenzene	108-90-7	E611C	95.5 µg/L	100 µg/L	95.5	60.0	140	---
		Chloroethane	75-00-3	E611C	102 µg/L	100 µg/L	102	50.0	150	---
		Chloroform	67-66-3	E611C	93.6 µg/L	100 µg/L	93.6	60.0	140	---
		Chloromethane	74-87-3	E611C	96.8 µg/L	100 µg/L	96.8	50.0	150	---
		Dibromochloromethane	124-48-1	E611C	91.4 µg/L	100 µg/L	91.4	60.0	140	---
		Dichlorobenzene, 1,2-	95-50-1	E611C	97.7 µg/L	100 µg/L	97.7	60.0	140	---
		Dichlorobenzene, 1,3-	541-73-1	E611C	95.7 µg/L	100 µg/L	95.7	60.0	140	---
		Dichlorobenzene, 1,4-	106-46-7	E611C	97.9 µg/L	100 µg/L	97.9	60.0	140	---
		Dichloroethane, 1,1-	75-34-3	E611C	97.1 µg/L	100 µg/L	97.1	60.0	140	---
		Dichloroethane, 1,2-	107-06-2	E611C	94.5 µg/L	100 µg/L	94.5	60.0	140	---
		Dichloroethylene, 1,1-	75-35-4	E611C	88.6 µg/L	100 µg/L	88.6	60.0	140	---
		Dichloroethylene, cis-1,2-	156-59-2	E611C	93.0 µg/L	100 µg/L	93.0	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: 1790716) - continued										
VA24D1917-002	Anonymous	Dichloroethylene, trans-1,2-	156-60-5	E611C	90.6 µg/L	100 µg/L	90.6	60.0	140	----
		Dichloromethane	75-09-2	E611C	91.1 µg/L	100 µg/L	91.1	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611C	96.8 µg/L	100 µg/L	96.8	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611C	88.9 µg/L	100 µg/L	88.9	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611C	86.5 µg/L	100 µg/L	86.5	60.0	140	----
		Ethylbenzene	100-41-4	E611C	94.0 µg/L	100 µg/L	94.0	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Styrene	100-42-5	E611C	97.7 µg/L	100 µg/L	97.7	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	96.8 µg/L	100 µg/L	96.8	60.0	140	----
		Tetrachloroethylene	127-18-4	E611C	87.8 µg/L	100 µg/L	87.8	60.0	140	----
		Toluene	108-88-3	E611C	92.6 µg/L	100 µg/L	92.6	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	92.0 µg/L	100 µg/L	92.0	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	93.8 µg/L	100 µg/L	93.8	60.0	140	----
		Trichloroethylene	79-01-6	E611C	91.4 µg/L	100 µg/L	91.4	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611C	90.8 µg/L	100 µg/L	90.8	50.0	150	----
		Vinyl chloride	75-01-4	E611C	91.1 µg/L	100 µg/L	91.1	50.0	150	----
		Xylene, m+p-	179601-23-1	E611C	198 µg/L	200 µg/L	98.9	60.0	140	----
		Xylene, o-	95-47-6	E611C	91.5 µg/L	100 µg/L	91.5	60.0	140	----
Hydrocarbons (QCLot: 1790715)										
VA24D1917-003	Anonymous	VHw (C6-C10)	----	E581.VH+F1	6030 µg/L	6310 µg/L	95.6	60.0	140	----

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
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Woodfibre Site WTP Discharge Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-11-26-Chycoski-1DBA4

Project Component:	Tunnel	Site Name:	WLNG Treatment Discharge
Inspection Date:	11/26/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669268 -123.249734
Temperature(c):	Low 2 High 7	Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 11:48:15 **Flow Volume (visual):** N/A

Notes:

Odour Detected?: No **Notes:**

Unusual Colour?: No **Notes:**

Unusual Observations?: No **Notes:**

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

Samples Collected - Parameters

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

Logger Maintenance

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

Photos



Photo: 1
Location: WLNG EOP
Description: Sampling location



Photo: 2
Location: WLNG EOP
Description: Discharging water from tap



2024-11-26-Chycoski-1DBA4

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- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

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

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

1. Executive Summary and Field Notes:

The discharged water consistently remained within regulatory guidelines. The key parameters, including temperature, pH, NTU, salinity, conductivity, and oxidation-reduction potential (ORP), were monitored throughout the discharge process and remained within the prescribed limits. No visible sheen observed on top of the WTP tanks and discharged water. All relevant parameters were measured using YSI instruments and WTP probes. The total discharge volume up to November 25th was 27,979 m³.

Note there were errors reported from the WTP NTU probe on November 25 between 3:15–3:30 and 5:45–6:00, as well as on November 30 between 4:15–4:30 and 10:15–10:30, which displayed elevated levels of NTU in the discharge water. The WTP operator was aware and has confirmed the probe malfunctioned, which is consistent with the DS NTU data for these periods where no exceedances were identified.



Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Daily Volume Summary:

Table 1: Discharge Volumes Daily Summary

Date	Location	Volume (m3)	Comments
November 25	WoodFibre (WF)	392	None
November 26	WF	388	None
November 27	WF	375	None
November 28	WF	435	None
November 29	WF	304	None
November 30	WF	426	None
December 1	WF	410	None
Total		2,730	None

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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2. Discharge Parameter Summary:

Table 2: Discharge Parameter Summary

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	1:00:00	7.6	0.851	0	27,979	10.6	118
11/25/2024	2:15:00	7.6	0.828	0	27,991	12.9	119
11/25/2024	2:30:00	7.6	0.869	1.7	28,000	10.5	116
11/25/2024	2:45:00	7.6	0.885	8.8	28,013	10.4	119
11/25/2024	3:15:00	7.6	0.877	38	28,026	10.4	117
11/25/2024	3:30:00	7.6	0.873	70.7	28,039	10.5	118
11/25/2024	5:45:00	7.6	0.450	131.2	28,049	12	119
11/25/2024	6:00:00	7.6	0.937	124.2	28,057	10.4	115
11/25/2024	6:15:00	7.6	0.892	8.4	28,070	10.2	116
11/25/2024	6:30:00	7.6	0.869	3.2	28,084	10.2	116
11/25/2024	8:30:00	7.6	0.858	0	28,096	10.4	119
11/25/2024	8:45:00	7.6	0.877	0	28,109	10.4	118
11/25/2024	9:00:00	7.7	0.847	0	28,122	10.4	119
11/25/2024	11:15:00	7.6	0.854	0	28,135	11.5	119
11/25/2024	11:30:00	7.6	0.881	0	28,148	10.5	119
11/25/2024	11:45:00	7.6	0.847	0	28,161	10.5	119
11/25/2024	13:45:00	7.6	0.873	0	28,179	10.8	119
11/25/2024	14:00:00	7.6	0.885	0	28,192	10.8	119
11/25/2024	15:15:00	7.6	0.854	0	28,205	10.9	119
11/25/2024	16:15:00	7.6	0.858	0	28,218	11.2	119

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	16:30:00	7.7	0.877	0	28,231	10.9	119
11/25/2024	16:45:00	7.7	0.843	0	28,244	10.9	119
11/25/2024	18:30:00	7.6	0.866	0	28,254	11.1	120
11/25/2024	18:45:00	7.6	0.873	0	28,268	10.9	119
11/25/2024	19:45:00	7.6	0.873	0	28,278	10.2	114
11/25/2024	20:00:00	7.6	0.862	0	28,292	10.3	116
11/25/2024	20:15:00	7.7	0.869	0	28,304	10.4	117
11/25/2024	22:15:00	7.6	0.851	0	28,325	10.3	118
11/25/2024	22:30:00	7.6	0.427	0	28,336	10.9	118
11/25/2024	22:45:00	7.7	0.835	3	28,342	10.4	118
11/25/2024	23:00:00	7.7	0.828	0	28,355	10.4	118
11/26/2024	0:00:00	7.6	0.809	0	28,361	9.9	114
11/26/2024	0:15:00	7.6	0.786	0	28,371	10.3	113
11/26/2024	2:30:00	7.7	0.847	17.4	28,381	10.6	119
11/26/2024	2:45:00	7.7	0.828	0	28,394	10	118
11/26/2024	3:00:00	7.7	0.832	0	28,407	10	118
11/26/2024	3:15:00	7.7	0.862	0	28,419	10	118
11/26/2024	4:45:00	7.7	0.847	0	28,434	9.8	117
11/26/2024	5:00:00	7.7	0.851	0	28,447	9.9	118
11/26/2024	5:45:00	7.7	0.854	0	28,453	10.3	116
11/26/2024	6:00:00	7.7	0.851	0	28,461	9.8	114
11/26/2024	8:45:00	7.7	0.847	0	28,474	9.7	118
11/26/2024	9:00:00	7.7	0.869	0	28,487	9.8	118
11/26/2024	9:15:00	7.7	0.839	0	28,500	9.7	118
11/26/2024	11:30:00	7.7	0.851	0	28,514	10.2	119

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	11:45:00	7.7	0.839	0	28,526	10	118
11/26/2024	12:00:00	7.7	0.847	0	28,536	10	119
11/26/2024	12:15:00	7.7	0.858	0	28,549	10	118
11/26/2024	12:30:00	7.7	0.790	0	28,561	10	119
11/26/2024	13:00:00	7.7	0.767	1.4	28,575	10.1	119
11/26/2024	15:00:00	7.7	0.782	0	28,587	10.3	119
11/26/2024	15:15:00	7.7	0.779	0	28,599	10.3	119
11/26/2024	15:30:00	7.7	0.794	0	28,611	10.3	119
11/26/2024	18:00:00	7.7	0.794	0	28,631	10.3	119
11/26/2024	18:15:00	7.7	0.794	0	28,642	10.4	119
11/26/2024	18:30:00	7.7	0.782	0	28,654	10.4	118
11/26/2024	19:00:00	7.7	0.620	10.1	28,657	12.6	118
11/26/2024	20:30:00	7.7	0.828	0	28,670	10.1	116
11/26/2024	20:45:00	7.7	0.832	0	28,682	9.9	113
11/26/2024	21:00:00	7.7	0.809	1.1	28,695	9.8	114
11/26/2024	22:00:00	7.7	0.782	0	28,707	10.1	116
11/26/2024	23:00:00	7.7	0.816	3.4	28,713	10.2	118
11/26/2024	23:15:00	7.7	0.832	5.4	28,719	9.9	116
11/26/2024	23:30:00	7.7	0.851	0	28,732	9.8	115
11/26/2024	23:45:00	7.7	0.862	0	28,745	9.9	116
11/27/2024	1:45:00	7.7	0.824	0	28,750	10.1	118
11/27/2024	2:00:00	7.7	0.866	0	28,763	10.2	118
11/27/2024	2:15:00	7.7	0.843	0	28,776	10	116
11/27/2024	2:30:00	7.7	0.847	0	28,789	9.9	113
11/27/2024	4:45:00	7.7	0.446	0	28,802	10.6	116

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	5:00:00	7.7	0.847	1.3	28,810	9.9	113
11/27/2024	5:15:00	7.7	0.862	0	28,823	9.7	112
11/27/2024	7:00:00	7.7	0.858	0	28,842	10.1	118
11/27/2024	7:15:00	7.7	0.873	0	28,854	10.2	118
11/27/2024	7:30:00	7.7	0.862	0	28,867	10.2	118
11/27/2024	7:45:00	7.7	0.862	0	28,880	10.3	119
11/27/2024	9:45:00	7.6	0.181	4	28,881	16.8	243
11/27/2024	10:00:00	7.7	0.820	0	28,894	10.2	118
11/27/2024	10:15:00	7.7	0.473	0	28,906	10.2	118
11/27/2024	11:30:00	7.7	0.646	0	28,910	10.1	115
11/27/2024	12:15:00	7.7	0.854	0	28,913	10	115
11/27/2024	12:30:00	7.7	0.843	0	28,923	10.3	116
11/27/2024	12:45:00	7.7	0.854	0	28,936	10.2	118
11/27/2024	13:00:00	7.7	0.828	0	28,949	10.2	117
11/27/2024	14:30:00	7.7	0.828	0	28,961	10.5	119
11/27/2024	14:45:00	7.7	0.851	0	28,973	10.5	119
11/27/2024	15:00:00	7.7	0.824	0	28,986	10.4	117
11/27/2024	16:45:00	7.7	0.847	0	28,998	10.6	119
11/27/2024	17:45:00	7.7	0.824	0	29,010	11.2	119
11/27/2024	18:00:00	7.7	0.843	0	29,023	10.5	118
11/27/2024	18:15:00	7.7	0.866	0	29,036	10.3	114
11/27/2024	18:30:00	7.7	0.257	0	29,048	10.2	113
11/27/2024	20:00:00	7.7	0.813	0	29,049	13.6	119
11/27/2024	20:15:00	7.7	0.839	0	29,062	10.5	119
11/27/2024	20:30:00	7.7	0.847	0	29,074	10.3	116

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	20:45:00	7.7	0.832	0	29,087	10.2	116
11/27/2024	22:15:00	7.7	0.858	0	29,101	9.7	111
11/27/2024	22:30:00	7.7	0.835	0	29,113	9.7	111
11/28/2024	1:00:00	7.7	0.816	0	29,132	10	116
11/28/2024	1:15:00	7.7	0.828	0	29,144	10	113
11/28/2024	1:30:00	7.7	0.446	0	29,155	10.2	114
11/28/2024	1:45:00	7.8	0.813	0	29,161	9.8	116
11/28/2024	2:00:00	7.7	0.828	0	29,169	9.8	116
11/28/2024	4:15:00	7.7	0.832	0	29,184	10.1	118
11/28/2024	4:30:00	7.7	0.828	0	29,196	10.2	119
11/28/2024	4:45:00	7.7	0.786	0	29,209	10.2	118
11/28/2024	5:00:00	7.7	0.839	0	29,221	10.2	118
11/28/2024	7:15:00	7.7	0.423	0	29,233	10.9	119
11/28/2024	7:30:00	7.7	0.832	0	29,244	9.9	117
11/28/2024	7:45:00	7.7	0.843	0	29,257	9.9	117
11/28/2024	8:00:00	7.8	0.832	0	29,269	10	118
11/28/2024	10:15:00	7.7	0.824	0	29,288	10	119
11/28/2024	10:30:00	7.7	0.824	0	29,301	10	119
11/28/2024	10:45:00	7.8	0.824	0	29,314	10	118
11/28/2024	12:30:00	7.7	0.824	0	29,319	12	119
11/28/2024	12:45:00	7.7	0.854	0	29,332	10.3	119
11/28/2024	13:45:00	7.7	0.779	1.2	29,338	14.1	119
11/28/2024	14:15:00	7.7	0.809	5.7	29,339	12.2	119
11/28/2024	14:30:00	7.7	0.809	0	29,352	10.4	119
11/28/2024	14:45:00	7.7	0.824	0	29,364	10.4	119

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	15:00:00	7.8	0.809	0	29,376	10.4	118
11/28/2024	15:15:00	7.8	0.832	0	29,389	10.4	118
11/28/2024	17:30:00	7.7	0.820	0	29,407	10.5	119
11/28/2024	17:45:00	7.7	0.881	0	29,419	10.5	119
11/28/2024	19:30:00	7.7	0.832	0	29,437	10.5	119
11/28/2024	19:45:00	7.7	0.851	0	29,449	10.5	119
11/28/2024	20:00:00	7.8	0.847	0	29,462	10.5	119
11/28/2024	20:15:00	7.8	0.824	0	29,474	10.4	119
11/28/2024	20:45:00	7.8	0.839	0	29,481	10.1	116
11/28/2024	21:00:00	7.8	0.824	0	29,494	10.1	117
11/28/2024	21:30:00	7.7	0.779	0	29,499	9.9	114
11/28/2024	21:45:00	7.8	0.858	0	29,512	9.9	114
11/28/2024	22:00:00	7.8	0.858	0	29,524	9.8	112
11/28/2024	23:00:00	7.8	0.813	0	29,534	10	115
11/28/2024	23:15:00	7.8	0.832	0.7	29,546	9.9	117
11/29/2024	0:15:00	7.7	0.276	0	29,556	10.4	111
11/29/2024	1:30:00	7.7	0.824	0	29,566	9.7	114
11/29/2024	1:45:00	7.7	0.378	0	29,576	10.1	112
11/29/2024	4:00:00	7.7	0.839	2.8	29,589	9.4	115
11/29/2024	4:15:00	7.7	0.140	4.4	29,602	9.6	114
11/29/2024	5:15:00	7.7	0.809	0	29,606	9.4	110
11/29/2024	5:30:00	7.7	0.854	0	29,616	9.4	111
11/29/2024	6:45:00	7.7	0.805	0	29,625	11.4	118
11/29/2024	7:00:00	7.8	0.809	0	29,637	10.1	118
11/29/2024	8:15:00	7.7	0.193	0.6	29,648	14	119

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	8:30:00	7.8	0.828	0	29,660	10.4	118
11/29/2024	14:00:00	7.8	0.805	0	29,671	9.8	113
11/29/2024	14:15:00	7.8	0.832	0	29,673	9.8	114
11/29/2024	14:30:00	7.8	0.824	0	29,685	9.9	114
11/29/2024	14:45:00	7.8	0.820	0	29,698	10	116
11/29/2024	15:00:00	7.8	0.801	0	29,710	10.1	116
11/29/2024	15:15:00	7.8	0.809	0	29,722	10.2	117
11/29/2024	17:15:00	7.8	0.771	2.7	29,735	12.8	118
11/29/2024	17:30:00	7.8	0.828	0	29,747	10	118
11/29/2024	17:45:00	7.8	0.839	0	29,759	10.1	118
11/29/2024	18:00:00	7.8	0.809	0	29,772	10.2	118
11/29/2024	18:15:00	7.8	0.420	0	29,783	10.7	118
11/29/2024	20:15:00	7.8	0.828	0.5	29,792	10.3	119
11/29/2024	20:30:00	7.8	0.835	1	29,805	10.1	116
11/29/2024	20:45:00	7.8	0.843	2.2	29,817	9.9	114
11/29/2024	21:00:00	7.8	0.839	2.4	29,830	9.8	113
11/29/2024	23:00:00	7.8	0.798	3.8	29,831	13	116
11/29/2024	23:30:00	7.8	0.873	2.6	29,846	10	116
11/29/2024	23:45:00	7.8	0.869	1.8	29,859	9.9	113
11/30/2024	1:00:00	7.8	0.851	0	29,877	10	116
11/30/2024	1:15:00	7.8	0.851	0	29,889	9.8	115
11/30/2024	1:30:00	7.8	0.843	0	29,902	9.7	113
11/30/2024	1:45:00	7.8	0.862	0	29,915	9.6	113
11/30/2024	3:45:00	7.8	0.862	0	29,932	10	118
11/30/2024	4:00:00	7.8	0.824	8.9	29,944	10	117

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	4:15:00	7.8	0.824	40.7	29,957	9.8	113
11/30/2024	4:30:00	7.8	0.835	98.9	29,970	9.8	113
11/30/2024	6:45:00	7.7	0.843	7.3	29,972	13.5	117
11/30/2024	7:00:00	7.8	0.862	0	29,985	10.2	118
11/30/2024	7:15:00	7.8	0.847	2.8	29,998	10	114
11/30/2024	7:30:00	7.8	0.866	0.7	30,010	10	115
11/30/2024	7:45:00	7.8	0.839	1.6	30,023	10.2	117
11/30/2024	10:15:00	7.8	0.839	19.8	30,024	10.9	119
11/30/2024	10:30:00	7.8	0.851	20.2	30,035	10.5	119
11/30/2024	10:45:00	7.8	0.858	3.3	30,048	10.5	119
11/30/2024	11:00:00	7.8	0.450	2.8	30,059	11.2	119
11/30/2024	13:00:00	7.7	0.866	0	30,071	16.5	119
11/30/2024	13:15:00	7.8	0.877	1.1	30,084	10.7	119
11/30/2024	13:30:00	7.8	0.866	1.4	30,097	10.7	119
11/30/2024	13:45:00	7.8	0.885	1.5	30,111	10.7	119
11/30/2024	14:00:00	7.8	0.866	0.4	30,124	10.7	119
11/30/2024	16:00:00	7.8	0.885	0.1	30,132	11	119
11/30/2024	16:15:00	7.8	0.873	1.1	30,145	10.8	119
11/30/2024	16:30:00	7.8	0.896	1.5	30,158	10.8	119
11/30/2024	16:45:00	7.8	0.877	1.7	30,171	10.8	119
11/30/2024	19:00:00	7.8	0.885	16.1	30,177	16	120
11/30/2024	19:15:00	7.8	0.851	0.2	30,185	10.9	119
11/30/2024	19:30:00	7.8	0.866	0.5	30,198	10.8	118
11/30/2024	19:45:00	7.8	0.835	0.5	30,211	10.8	118
11/30/2024	20:00:00	7.8	0.919	0.5	30,224	10.8	119

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	21:45:00	7.7	0.862	0.9	30,234	10.4	111
11/30/2024	22:00:00	7.8	0.877	0.7	30,247	10	111
11/30/2024	22:15:00	7.8	0.862	0.5	30,260	10	111
11/30/2024	22:30:00	7.8	0.888	0.9	30,273	10	111
12/1/2024	1:00:00	7.7	0.881	5	30,291	9.9	114
12/1/2024	1:15:00	7.8	0.858	0	30,303	10.2	116
12/1/2024	1:30:00	7.8	0.854	0	30,316	10.2	116
12/1/2024	1:45:00	7.8	0.851	0	30,329	10.1	115
12/1/2024	4:00:00	7.7	0.835	0	30,339	10.8	116
12/1/2024	4:15:00	7.8	0.843	0	30,352	10.3	116
12/1/2024	4:30:00	7.8	0.839	0	30,362	10.3	115
12/1/2024	4:45:00	7.8	0.847	0	30,375	10.2	114
12/1/2024	7:15:00	7.8	0.847	0	30,394	10.4	118
12/1/2024	7:30:00	7.8	0.866	0	30,407	10.4	118
12/1/2024	7:45:00	7.8	0.854	0	30,420	10.4	119
12/1/2024	8:00:00	7.8	0.866	0	30,433	10.5	119
12/1/2024	10:15:00	7.8	0.877	0	30,441	10.6	121
12/1/2024	10:30:00	7.8	0.873	0	30,454	10.5	119
12/1/2024	10:45:00	7.8	0.873	0	30,467	10.4	119
12/1/2024	11:00:00	7.8	0.851	0	30,479	10.5	119
12/1/2024	13:30:00	7.8	0.873	0	30,501	11	121
12/1/2024	13:45:00	7.8	0.854	0	30,512	10.9	119
12/1/2024	14:00:00	7.8	0.824	0	30,525	11	119
12/1/2024	14:15:00	7.8	0.851	0	30,538	11	119
12/1/2024	16:30:00	7.8	0.873	0	30,548	11.6	121

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	16:45:00	7.8	0.866	0	30,561	11.3	119
12/1/2024	18:00:00	7.8	0.892	0	30,580	11.2	119
12/1/2024	19:30:00	7.8	0.873	0	30,601	11.1	121
12/1/2024	19:45:00	7.8	0.835	1.2	30,614	11.1	119
12/1/2024	20:00:00	7.8	0.885	1.6	30,627	11	119
12/1/2024	20:15:00	7.8	0.847	1.9	30,640	11	119
12/1/2024	22:30:00	7.8	0.854	1.8	30,656	10	112
12/1/2024	22:45:00	7.8	0.869	1.3	30,669	10.2	114
12/1/2024	23:00:00	7.8	0.858	1.5	30,681	10.4	116
12/1/2024	23:15:00	7.8	0.851	1.2	30,694	10.3	114

Table 3. In-Situ Parameters

Date	Time	Temperature °C	DO mg/L	Conductivity SPC-uS/cm	SAL-ppt	pH	ORP (mV)	NTU
11/25/2024	10:22:18PM	11.3	12.53	130.8	0.06	8.05	120.2	1.77
11/26/2024	12:47:51PM	10.7	11.86	128.6	0.06	7.93	139.8	0.27
11/27/2024	04:35:42AM	11.9	11.38	130.9	0.06	8.20	112.2	0.09
11/28/2024	01:03:12AM	9.5	12.06	128.8	0.06	8.15	127.2	1.03
11/29/2024	02:09:28PM	10	12.56	128.4	0.06	8.07	140.6	0.23
11/30/2024	10:33:20AM	10.6	12.47	130.1	0.06	8.11	151.5	3.03
12/01/2024	01:46:36PM	11.8	11.47	130.1	0.06	8.00	134.0	0.15




Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


3. Calibration Log:

Table 4. Calibration Log


Date	Unit	pH	Conductivity/Temp.	Salinity	NTU
11/25/2024	YSI	✓	✓	✓	✓
11/26/2024	WTP	✓	N/A	N/A	✓

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: SD Approved by: BC2 Date: December 4 th 2024	


APPENDIX A: WTP Log

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	0:00:00	7.6	0.000	3.2	27,968	Open	13.5	118
11/25/2024	0:15:00	7.6	0.000	6	27,968	Open	14	119
11/25/2024	0:30:00	7.6	0.000	11.2	27,968	Open	14.4	118
11/25/2024	0:45:00	7.6	0.000	17	27,968	Open	15.1	119
11/25/2024	1:00:00	7.6	0.851	0	27,979	Open	10.6	118
11/25/2024	1:15:00	7.6	0.000	7.7	27,989	Open	10.7	116
11/25/2024	1:30:00	7.6	0.000	12.8	27,989	Open	11.4	118
11/25/2024	1:45:00	7.6	0.000	18.4	27,989	Open	12.3	118
11/25/2024	2:00:00	7.6	0.000	24.5	27,989	Open	13.3	119
11/25/2024	2:15:00	7.6	0.828	0	27,991	Open	12.9	119
11/25/2024	2:30:00	7.6	0.869	1.7	28,000	Open	10.5	116
11/25/2024	2:45:00	7.6	0.885	8.8	28,013	Open	10.4	119
11/25/2024	3:00:00	7.6	0.000	17.4	28,017	Open	10.9	117
11/25/2024	3:15:00	7.6	0.877	38	28,026	Open	10.4	117

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	3:30:00	7.6	0.873	70.7	28,039	Open	10.5	118
11/25/2024	3:45:00	7.6	0.000	91.4	28,044	Open	11	117
11/25/2024	4:00:00	7.6	0.000	103.1	28,044	Open	12	118
11/25/2024	4:15:00	7.6	0.000	2.1	28,044	Open	13	118
11/25/2024	4:30:00	7.6	0.000	11.6	28,044	Open	13.7	119
11/25/2024	4:45:00	7.6	0.000	26.8	28,044	Open	14.6	119
11/25/2024	5:00:00	7.6	0.000	48.1	28,044	Open	15.3	119
11/25/2024	5:15:00	7.6	0.000	68.2	28,044	Open	15.8	119
11/25/2024	5:30:00	7.6	0.000	91.3	28,044	Open	16.4	119
11/25/2024	5:45:00	7.6	0.450	131.2	28,049	Open	12	119
11/25/2024	6:00:00	7.6	0.937	124.2	28,057	Open	10.4	115
11/25/2024	6:15:00	7.6	0.892	8.4	28,070	Open	10.2	116
11/25/2024	6:30:00	7.6	0.869	3.2	28,084	Open	10.2	116
11/25/2024	6:45:00	7.6	0.000	3.6	28,087	Open	10.8	117
11/25/2024	7:00:00	7.6	0.000	4.1	28,087	Open	11.8	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	7:15:00	7.6	0.000	6.2	28,087	Open	12.8	118
11/25/2024	7:30:00	7.6	0.000	11.2	28,087	Open	13.7	119
11/25/2024	7:45:00	7.6	0.000	21.9	28,087	Open	14.5	119
11/25/2024	8:00:00	7.6	0.000	38.7	28,087	Open	15.3	119
11/25/2024	8:15:00	7.6	0.000	19.6	28,087	Open	16	119
11/25/2024	8:30:00	7.6	0.858	0	28,096	Open	10.4	119
11/25/2024	8:45:00	7.6	0.877	0	28,109	Open	10.4	118
11/25/2024	9:00:00	7.7	0.847	0	28,122	Open	10.4	119
11/25/2024	9:15:00	7.7	0.000	0	28,132	Open	10.6	118
11/25/2024	9:30:00	7.6	0.000	0	28,132	Open	11.5	119
11/25/2024	9:45:00	7.6	0.000	0	28,132	Open	12.6	119
11/25/2024	10:00:00	7.6	0.000	0	28,132	Open	13.5	119
11/25/2024	10:15:00	7.6	0.000	0	28,132	Open	14.4	119
11/25/2024	10:30:00	7.6	0.000	0	28,132	Open	15.2	119
11/25/2024	10:45:00	7.6	0.000	0	28,132	Open	15.7	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	11:00:00	7.6	0.000	0	28,132	Open	16.3	119
11/25/2024	11:15:00	7.6	0.854	0	28,135	Open	11.5	119
11/25/2024	11:30:00	7.6	0.881	0	28,148	Open	10.5	119
11/25/2024	11:45:00	7.6	0.847	0	28,161	Open	10.5	119
11/25/2024	12:00:00	7.7	0.000	0	28,172	Open	10.7	118
11/25/2024	12:15:00	7.6	0.000	0	28,172	Open	11.6	120
11/25/2024	12:30:00	7.6	0.000	0	28,172	Open	12.8	119
11/25/2024	12:45:00	7.6	0.000	0	28,172	Open	13.6	119
11/25/2024	13:00:00	7.6	0.000	0	28,172	Open	14.5	119
11/25/2024	13:15:00	7.6	0.000	0	28,172	Open	15.3	119
11/25/2024	13:30:00	7.6	0.000	0	28,172	Open	16.1	119
11/25/2024	13:45:00	7.6	0.873	0	28,179	Open	10.8	119
11/25/2024	14:00:00	7.6	0.885	0	28,192	Open	10.8	119
11/25/2024	14:15:00	7.6	0.000	0	28,196	Open	11.4	119
11/25/2024	14:30:00	7.6	0.000	0	28,196	Open	12.6	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	14:45:00	7.6	0.000	0	28,196	Open	13.6	119
11/25/2024	15:00:00	7.6	0.000	0	28,196	Open	14.6	120
11/25/2024	15:15:00	7.6	0.854	0	28,205	Open	10.9	119
11/25/2024	15:30:00	7.6	0.000	0	28,215	Open	11.1	119
11/25/2024	15:45:00	7.6	0.000	0	28,215	Open	12.1	119
11/25/2024	16:00:00	7.6	0.000	0	28,215	Open	13.2	119
11/25/2024	16:15:00	7.6	0.858	0	28,218	Open	11.2	119
11/25/2024	16:30:00	7.7	0.877	0	28,231	Open	10.9	119
11/25/2024	16:45:00	7.7	0.843	0	28,244	Open	10.9	119
11/25/2024	17:00:00	7.7	0.000	0	28,250	Open	11.4	119
11/25/2024	17:15:00	7.6	0.000	0	28,250	Open	12.5	119
11/25/2024	17:30:00	7.6	0.000	0	28,250	Open	13.7	119
11/25/2024	17:45:00	7.6	0.000	0	28,250	Open	14.7	119
11/25/2024	18:00:00	7.6	0.000	0	28,250	Open	15.5	119
11/25/2024	18:15:00	7.6	0.000	0	28,250	Open	16.3	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	18:30:00	7.6	0.866	0	28,254	Open	11.1	120
11/25/2024	18:45:00	7.6	0.873	0	28,268	Open	10.9	119
11/25/2024	19:00:00	7.6	0.000	0	28,268	Open	11.3	116
11/25/2024	19:15:00	7.6	0.000	0	28,268	Open	11.7	114
11/25/2024	19:30:00	7.6	0.000	0	28,268	Open	11.8	112
11/25/2024	19:45:00	7.6	0.873	0	28,278	Open	10.2	114
11/25/2024	20:00:00	7.6	0.862	0	28,292	Open	10.3	116
11/25/2024	20:15:00	7.7	0.869	0	28,304	Open	10.4	117
11/25/2024	20:30:00	7.6	0.000	0	28,315	Open	10.5	116
11/25/2024	20:45:00	7.6	0.000	0	28,315	Open	10.8	113
11/25/2024	21:00:00	7.6	0.000	0	28,315	Open	11.2	114
11/25/2024	21:15:00	7.6	0.000	0	28,315	Open	11.9	116
11/25/2024	21:30:00	7.6	0.000	0	28,315	Open	12.7	117
11/25/2024	21:45:00	7.6	0.000	0	28,315	Open	13.6	118
11/25/2024	22:00:00	7.6	0.000	0	28,315	Open	14.3	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/25/2024	22:15:00	7.6	0.851	0	28,325	Open	10.3	118
11/25/2024	22:30:00	7.6	0.427	0	28,336	Open	10.9	118
11/25/2024	22:45:00	7.7	0.835	3	28,342	Open	10.4	118
11/25/2024	23:00:00	7.7	0.828	0	28,355	Open	10.4	118
11/25/2024	23:15:00	7.7	0.000	0	28,357	Open	10.9	118
11/25/2024	23:30:00	7.6	0.000	0	28,357	Open	11.9	118
11/25/2024	23:45:00	7.6	0.000	0	28,357	Open	12.8	116
11/26/2024	0:00:00	7.6	0.809	0	28,361	Open	9.9	114
11/26/2024	0:15:00	7.6	0.786	0	28,371	Open	10.3	113
11/26/2024	0:30:00	7.7	0.000	0	28,378	Open	10	116
11/26/2024	0:45:00	7.6	0.000	0	28,378	Open	10.9	116
11/26/2024	1:00:00	7.6	0.000	0	28,378	Open	11.8	118
11/26/2024	1:15:00	7.6	0.000	0	28,378	Open	12.7	118
11/26/2024	1:30:00	7.6	0.000	0	28,378	Open	13.5	118
11/26/2024	1:45:00	7.6	0.000	0	28,378	Open	14.3	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	2:00:00	7.6	0.000	0	28,378	Open	15	119
11/26/2024	2:15:00	7.6	0.000	0	28,378	Open	15.7	119
11/26/2024	2:30:00	7.7	0.847	17.4	28,381	Open	10.6	119
11/26/2024	2:45:00	7.7	0.828	0	28,394	Open	10	118
11/26/2024	3:00:00	7.7	0.832	0	28,407	Open	10	118
11/26/2024	3:15:00	7.7	0.862	0	28,419	Open	10	118
11/26/2024	3:30:00	7.7	0.000	0	28,421	Open	10.8	119
11/26/2024	3:45:00	7.7	0.000	0	28,421	Open	11.9	118
11/26/2024	4:00:00	7.6	0.000	0	28,421	Open	12.9	119
11/26/2024	4:15:00	7.6	0.000	0	28,421	Open	13.8	119
11/26/2024	4:30:00	7.7	0.000	0	28,424	Open	10.4	117
11/26/2024	4:45:00	7.7	0.847	0	28,434	Open	9.8	117
11/26/2024	5:00:00	7.7	0.851	0	28,447	Open	9.9	118
11/26/2024	5:15:00	7.7	0.000	0	28,449	Open	10.7	117
11/26/2024	5:30:00	7.7	0.000	0	28,449	Open	11.7	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	5:45:00	7.7	0.854	0	28,453	Open	10.3	116
11/26/2024	6:00:00	7.7	0.851	0	28,461	Open	9.8	114
11/26/2024	6:15:00	7.7	0.000	0	28,462	Open	10.1	115
11/26/2024	6:30:00	7.6	0.000	0	28,462	Open	10.9	117
11/26/2024	6:45:00	7.6	0.000	0	28,462	Open	11.8	117
11/26/2024	7:00:00	7.7	0.000	0	28,465	Open	10.2	117
11/26/2024	7:15:00	7.6	0.000	0	28,465	Open	11	117
11/26/2024	7:30:00	7.6	0.000	0	28,465	Open	12	119
11/26/2024	7:45:00	7.6	0.000	0	28,465	Open	12.9	118
11/26/2024	8:00:00	7.6	0.000	0	28,465	Open	13.7	118
11/26/2024	8:15:00	7.6	0.000	0	28,465	Open	14.5	119
11/26/2024	8:30:00	7.6	0.000	0	28,465	Open	15.2	119
11/26/2024	8:45:00	7.7	0.847	0	28,474	Open	9.7	118
11/26/2024	9:00:00	7.7	0.869	0	28,487	Open	9.8	118
11/26/2024	9:15:00	7.7	0.839	0	28,500	Open	9.7	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	9:30:00	7.7	0.000	0	28,509	Open	10	119
11/26/2024	9:45:00	7.7	0.000	0	28,509	Open	11	118
11/26/2024	10:00:00	7.7	0.000	0	28,509	Open	12.1	119
11/26/2024	10:15:00	7.7	0.000	0	28,509	Open	13.1	119
11/26/2024	10:30:00	7.6	0.000	0	28,509	Open	14	119
11/26/2024	10:45:00	7.6	0.000	0	28,509	Open	14.8	119
11/26/2024	11:00:00	7.6	0.000	0	28,509	Open	20.2	245
11/26/2024	11:15:00	7.6	0.000	0	28,509	Open	20	247
11/26/2024	11:30:00	7.7	0.851	0	28,514	Open	10.2	119
11/26/2024	11:45:00	7.7	0.839	0	28,526	Open	10	118
11/26/2024	12:00:00	7.7	0.847	0	28,536	Open	10	119
11/26/2024	12:15:00	7.7	0.858	0	28,549	Open	10	118
11/26/2024	12:30:00	7.7	0.790	0	28,561	Open	10	119
11/26/2024	12:45:00	7.7	0.000	0	28,564	Open	10.6	118
11/26/2024	13:00:00	7.7	0.767	1.4	28,575	Open	10.1	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	13:15:00	7.7	0.000	0	28,577	Open	10.8	119
11/26/2024	13:30:00	7.7	0.000	0	28,577	Open	12	119
11/26/2024	13:45:00	7.7	0.000	0	28,577	Open	13.1	119
11/26/2024	14:00:00	7.7	0.000	0	28,577	Open	14.1	119
11/26/2024	14:15:00	7.6	0.000	0	28,577	Open	15	119
11/26/2024	14:30:00	7.6	0.000	0	28,577	Open	15.8	119
11/26/2024	14:45:00	7.6	0.000	0	28,577	Open	16.5	119
11/26/2024	15:00:00	7.7	0.782	0	28,587	Open	10.3	119
11/26/2024	15:15:00	7.7	0.779	0	28,599	Open	10.3	119
11/26/2024	15:30:00	7.7	0.794	0	28,611	Open	10.3	119
11/26/2024	15:45:00	7.7	0.000	0	28,622	Open	10.3	117
11/26/2024	16:00:00	7.7	0.000	0	28,622	Open	11.1	118
11/26/2024	16:15:00	7.7	0.000	0	28,622	Open	12.1	118
11/26/2024	16:30:00	7.7	0.000	0	28,622	Open	13.2	120
11/26/2024	16:45:00	7.7	0.000	0	28,622	Open	14.2	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	17:00:00	7.6	0.000	0	28,622	Open	15	119
11/26/2024	17:15:00	7.6	0.000	0	28,622	Open	15.8	119
11/26/2024	17:30:00	7.6	0.000	0	28,622	Open	16.5	119
11/26/2024	17:45:00	7.6	0.000	0	28,622	Open	17.1	245
11/26/2024	18:00:00	7.7	0.794	0	28,631	Open	10.3	119
11/26/2024	18:15:00	7.7	0.794	0	28,642	Open	10.4	119
11/26/2024	18:30:00	7.7	0.782	0	28,654	Open	10.4	118
11/26/2024	18:45:00	7.7	0.000	0	28,656	Open	11.2	119
11/26/2024	19:00:00	7.7	0.620	10.1	28,657	Open	12.6	118
11/26/2024	19:15:00	7.7	0.000	0	28,662	Open	10.6	116
11/26/2024	19:30:00	7.7	0.000	0.3	28,662	Open	11.5	116
11/26/2024	19:45:00	7.7	0.000	1.9	28,662	Open	12.5	119
11/26/2024	20:00:00	7.6	0.000	4.3	28,662	Open	13.5	119
11/26/2024	20:15:00	7.6	0.000	9.6	28,662	Open	14.4	119
11/26/2024	20:30:00	7.7	0.828	0	28,670	Open	10.1	116

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/26/2024	20:45:00	7.7	0.832	0	28,682	Open	9.9	113
11/26/2024	21:00:00	7.7	0.809	1.1	28,695	Open	9.8	114
11/26/2024	21:15:00	7.7	0.000	5.5	28,705	Open	9.8	113
11/26/2024	21:30:00	7.7	0.000	8.5	28,705	Open	10.1	112
11/26/2024	21:45:00	7.7	0.000	10.2	28,705	Open	10.5	113
11/26/2024	22:00:00	7.7	0.782	0	28,707	Open	10.1	116
11/26/2024	22:15:00	7.7	0.000	0	28,709	Open	10.3	116
11/26/2024	22:30:00	7.6	0.000	0	28,709	Open	11.2	116
11/26/2024	22:45:00	7.6	0.000	1.4	28,709	Open	12.1	118
11/26/2024	23:00:00	7.7	0.816	3.4	28,713	Open	10.2	118
11/26/2024	23:15:00	7.7	0.832	5.4	28,719	Open	9.9	116
11/26/2024	23:30:00	7.7	0.851	0	28,732	Open	9.8	115
11/26/2024	23:45:00	7.7	0.862	0	28,745	Open	9.9	116
11/27/2024	0:00:00	7.7	0.000	0	28,746	Open	10.7	116
11/27/2024	0:15:00	7.7	0.000	0	28,746	Open	11.7	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	0:30:00	7.7	0.000	0	28,746	Open	12.4	116
11/27/2024	0:45:00	7.6	0.000	0	28,746	Open	13.1	118
11/27/2024	1:00:00	7.6	0.000	0	28,746	Open	13.8	118
11/27/2024	1:15:00	7.6	0.000	0	28,746	Open	14.6	119
11/27/2024	1:30:00	7.6	0.000	0	28,746	Open	14.9	118
11/27/2024	1:45:00	7.7	0.824	0	28,750	Open	10.1	118
11/27/2024	2:00:00	7.7	0.866	0	28,763	Open	10.2	118
11/27/2024	2:15:00	7.7	0.843	0	28,776	Open	10	116
11/27/2024	2:30:00	7.7	0.847	0	28,789	Open	9.9	113
11/27/2024	2:45:00	7.7	0.000	0	28,793	Open	10.2	114
11/27/2024	3:00:00	7.7	0.000	0	28,793	Open	11.1	116
11/27/2024	3:15:00	7.7	0.000	0	28,793	Open	12	116
11/27/2024	3:30:00	7.7	0.000	0	28,793	Open	12.8	118
11/27/2024	3:45:00	7.6	0.000	0	28,793	Open	13.6	118
11/27/2024	4:00:00	7.6	0.000	0	28,793	Open	14.3	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	4:15:00	7.6	0.000	0	28,793	Open	14.7	118
11/27/2024	4:30:00	7.6	0.000	0	28,793	Open	15.4	119
11/27/2024	4:45:00	7.7	0.446	0	28,802	Open	10.6	116
11/27/2024	5:00:00	7.7	0.847	1.3	28,810	Open	9.9	113
11/27/2024	5:15:00	7.7	0.862	0	28,823	Open	9.7	112
11/27/2024	5:30:00	7.7	0.000	0	28,835	Open	9.6	111
11/27/2024	5:45:00	7.7	0.000	0	28,835	Open	10.1	114
11/27/2024	6:00:00	7.7	0.000	0	28,835	Open	10.7	116
11/27/2024	6:15:00	7.7	0.000	0	28,835	Open	11.6	118
11/27/2024	6:30:00	7.6	0.000	0	28,835	Open	12.5	118
11/27/2024	6:45:00	7.6	0.000	0	28,835	Open	13.4	118
11/27/2024	7:00:00	7.7	0.858	0	28,842	Open	10.1	118
11/27/2024	7:15:00	7.7	0.873	0	28,854	Open	10.2	118
11/27/2024	7:30:00	7.7	0.862	0	28,867	Open	10.2	118
11/27/2024	7:45:00	7.7	0.862	0	28,880	Open	10.3	119

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	8:00:00	7.7	0.000	0	28,881	Open	11	118
11/27/2024	8:15:00	7.7	0.000	0	28,881	Open	12.1	119
11/27/2024	8:30:00	7.7	0.000	0	28,881	Open	13.1	119
11/27/2024	8:45:00	7.6	0.000	0	28,881	Open	14.1	119
11/27/2024	9:00:00	7.6	0.000	0	28,881	Open	14.9	119
11/27/2024	9:15:00	7.6	0.000	0	28,881	Open	15.6	119
11/27/2024	9:30:00	7.6	0.000	0	28,881	Open	16.3	119
11/27/2024	9:45:00	7.6	0.181	4	28,881	Open	16.8	243
11/27/2024	10:00:00	7.7	0.820	0	28,894	Open	10.2	118
11/27/2024	10:15:00	7.7	0.473	0	28,906	Open	10.2	118
11/27/2024	10:30:00	7.7	0.000	0	28,906	Open	11	117
11/27/2024	10:45:00	7.7	0.000	0	28,906	Open	11.8	116
11/27/2024	11:00:00	7.6	0.000	0	28,906	Open	12.3	114
11/27/2024	11:15:00	7.6	0.000	0	28,906	Open	12.6	116
11/27/2024	11:30:00	7.7	0.646	0	28,910	Open	10.1	115

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	11:45:00	7.7	0.000	0	28,910	Open	10.6	116
11/27/2024	12:00:00	7.6	0.000	0	28,910	Closed	11.3	115
11/27/2024	12:15:00	7.7	0.854	0	28,913	Open	10	115
11/27/2024	12:30:00	7.7	0.843	0	28,923	Open	10.3	116
11/27/2024	12:45:00	7.7	0.854	0	28,936	Open	10.2	118
11/27/2024	13:00:00	7.7	0.828	0	28,949	Open	10.2	117
11/27/2024	13:15:00	7.7	0.000	0	28,953	Closed	10.6	118
11/27/2024	13:30:00	7.6	0.000	0	28,953	Closed	11.7	118
11/27/2024	13:45:00	7.6	0.000	0	28,953	Closed	12.8	119
11/27/2024	14:00:00	7.6	0.000	0	28,953	Closed	13.8	119
11/27/2024	14:15:00	7.6	0.000	0	28,953	Closed	14.7	120
11/27/2024	14:30:00	7.7	0.828	0	28,961	Open	10.5	119
11/27/2024	14:45:00	7.7	0.851	0	28,973	Open	10.5	119
11/27/2024	15:00:00	7.7	0.824	0	28,986	Open	10.4	117
11/27/2024	15:15:00	7.7	0.000	0	28,992	Closed	10.8	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	15:30:00	7.7	0.000	0	28,992	Closed	11.5	117
11/27/2024	15:45:00	7.6	0.000	0	28,992	Closed	12.4	118
11/27/2024	16:00:00	7.6	0.000	0	28,992	Closed	13.4	119
11/27/2024	16:15:00	7.6	0.000	0	28,992	Closed	14.3	119
11/27/2024	16:30:00	7.6	0.000	0	28,992	Closed	15.2	119
11/27/2024	16:45:00	7.7	0.847	0	28,998	Open	10.6	119
11/27/2024	17:00:00	7.7	0.000	0	29,009	Closed	10.7	119
11/27/2024	17:15:00	7.7	0.000	0	29,009	Closed	11.6	118
11/27/2024	17:30:00	7.6	0.000	0	29,009	Closed	12.8	119
11/27/2024	17:45:00	7.7	0.824	0	29,010	Open	11.2	119
11/27/2024	18:00:00	7.7	0.843	0	29,023	Open	10.5	118
11/27/2024	18:15:00	7.7	0.866	0	29,036	Open	10.3	114
11/27/2024	18:30:00	7.7	0.257	0	29,048	Closed	10.2	113
11/27/2024	18:45:00	7.7	0.000	0	29,048	Closed	10.8	116
11/27/2024	19:00:00	7.6	0.000	0	29,048	Closed	11.8	117

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	19:15:00	7.6	0.000	0	29,048	Closed	12.8	118
11/27/2024	19:30:00	7.6	0.000	0	29,048	Closed	13.7	118
11/27/2024	19:45:00	7.6	0.000	0	29,048	Closed	14.6	119
11/27/2024	20:00:00	7.7	0.813	0	29,049	Open	13.6	119
11/27/2024	20:15:00	7.7	0.839	0	29,062	Open	10.5	119
11/27/2024	20:30:00	7.7	0.847	0	29,074	Open	10.3	116
11/27/2024	20:45:00	7.7	0.832	0	29,087	Open	10.2	116
11/27/2024	21:00:00	7.7	0.000	0	29,091	Closed	10.4	117
11/27/2024	21:15:00	7.7	0.000	0	29,091	Closed	11	116
11/27/2024	21:30:00	7.6	0.000	0	29,091	Closed	11.9	116
11/27/2024	21:45:00	7.6	0.000	0	29,091	Closed	12.2	113
11/27/2024	22:00:00	7.6	0.000	0	29,091	Closed	12.3	111
11/27/2024	22:15:00	7.7	0.858	0	29,101	Open	9.7	111
11/27/2024	22:30:00	7.7	0.835	0	29,113	Open	9.7	111
11/27/2024	22:45:00	7.7	0.000	0	29,120	Closed	9.9	114

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/27/2024	23:00:00	7.7	0.000	0	29,120	Closed	10.6	115
11/27/2024	23:15:00	7.6	0.000	0	29,120	Closed	11	114
11/27/2024	23:30:00	7.6	0.000	0	29,120	Closed	11.3	114
11/27/2024	23:45:00	7.6	0.000	0	29,120	Closed	11.8	116
11/28/2024	0:00:00	7.6	0.000	0	29,120	Closed	12.5	117
11/28/2024	0:15:00	7.6	0.000	0	29,120	Closed	13.3	119
11/28/2024	0:30:00	7.6	0.000	0	29,120	Closed	13.8	116
11/28/2024	0:45:00	7.6	0.000	0	29,120	Closed	14	116
11/28/2024	1:00:00	7.7	0.816	0	29,132	Open	10	116
11/28/2024	1:15:00	7.7	0.828	0	29,144	Open	10	113
11/28/2024	1:30:00	7.7	0.446	0	29,155	Open	10.2	114
11/28/2024	1:45:00	7.8	0.813	0	29,161	Open	9.8	116
11/28/2024	2:00:00	7.7	0.828	0	29,169	Open	9.8	116
11/28/2024	2:15:00	7.7	0.000	0	29,179	Open	9.9	117
11/28/2024	2:30:00	7.7	0.000	0	29,179	Open	10.4	116

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	2:45:00	7.7	0.000	0	29,179	Open	11.3	117
11/28/2024	3:00:00	7.7	0.000	0	29,179	Open	12.1	118
11/28/2024	3:15:00	7.7	0.000	0	29,179	Open	13	119
11/28/2024	3:30:00	7.6	0.000	0	29,179	Open	13.8	119
11/28/2024	3:45:00	7.6	0.000	0	29,179	Open	14.6	118
11/28/2024	4:00:00	7.6	0.000	0	29,179	Open	15.2	119
11/28/2024	4:15:00	7.7	0.832	0	29,184	Open	10.1	118
11/28/2024	4:30:00	7.7	0.828	0	29,196	Open	10.2	119
11/28/2024	4:45:00	7.7	0.786	0	29,209	Open	10.2	118
11/28/2024	5:00:00	7.7	0.839	0	29,221	Open	10.2	118
11/28/2024	5:15:00	7.7	0.000	0	29,230	Open	10.4	118
11/28/2024	5:30:00	7.7	0.000	0	29,230	Open	11.4	119
11/28/2024	5:45:00	7.7	0.000	0	29,230	Open	12.6	119
11/28/2024	6:00:00	7.7	0.000	0	29,230	Open	13.6	119
11/28/2024	6:15:00	7.7	0.000	0	29,230	Open	14.5	119

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	6:30:00	7.6	0.000	0	29,230	Open	15.3	119
11/28/2024	6:45:00	7.6	0.000	0	29,230	Open	16	119
11/28/2024	7:00:00	7.6	0.000	0	29,230	Open	16.7	245
11/28/2024	7:15:00	7.7	0.423	0	29,233	Open	10.9	119
11/28/2024	7:30:00	7.7	0.832	0	29,244	Open	9.9	117
11/28/2024	7:45:00	7.7	0.843	0	29,257	Open	9.9	117
11/28/2024	8:00:00	7.8	0.832	0	29,269	Open	10	118
11/28/2024	8:15:00	7.7	0.000	0	29,278	Open	10.2	118
11/28/2024	8:30:00	7.7	0.000	0	29,278	Open	11.3	118
11/28/2024	8:45:00	7.7	0.000	0	29,278	Open	12.4	119
11/28/2024	9:00:00	7.7	0.000	0	29,278	Open	13.4	119
11/28/2024	9:15:00	7.7	0.000	0	29,278	Open	14.3	119
11/28/2024	9:30:00	7.6	0.000	0	29,278	Open	15.1	119
11/28/2024	9:45:00	7.6	0.000	0	29,278	Open	15.9	119
11/28/2024	10:00:00	7.6	0.000	0	29,278	Open	16.5	245

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	10:15:00	7.7	0.824	0	29,288	Open	10	119
11/28/2024	10:30:00	7.7	0.824	0	29,301	Open	10	119
11/28/2024	10:45:00	7.8	0.824	0	29,314	Open	10	118
11/28/2024	11:00:00	7.7	0.000	0	29,317	Open	10.7	119
11/28/2024	11:15:00	7.7	0.000	0	29,317	Open	11.8	119
11/28/2024	11:30:00	7.7	0.000	0	29,317	Open	13	119
11/28/2024	11:45:00	7.7	0.000	0	29,317	Open	14	120
11/28/2024	12:00:00	7.6	0.000	0	29,317	Open	14.9	119
11/28/2024	12:15:00	7.6	0.000	0	29,317	Open	15.8	119
11/28/2024	12:30:00	7.7	0.824	0	29,319	Open	12	119
11/28/2024	12:45:00	7.7	0.854	0	29,332	Open	10.3	119
11/28/2024	13:00:00	7.7	0.000	0	29,337	Open	10.8	119
11/28/2024	13:15:00	7.7	0.000	0	29,337	Open	12	120
11/28/2024	13:30:00	7.7	0.000	0	29,337	Open	13.1	119
11/28/2024	13:45:00	7.7	0.779	1.2	29,338	Open	14.1	119

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	14:00:00	7.7	0.000	0	29,339	Open	11.7	119
11/28/2024	14:15:00	7.7	0.809	5.7	29,339	Open	12.2	119
11/28/2024	14:30:00	7.7	0.809	0	29,352	Open	10.4	119
11/28/2024	14:45:00	7.7	0.824	0	29,364	Open	10.4	119
11/28/2024	15:00:00	7.8	0.809	0	29,376	Open	10.4	118
11/28/2024	15:15:00	7.8	0.832	0	29,389	Open	10.4	118
11/28/2024	15:30:00	7.8	0.000	0	29,395	Closed	10.7	119
11/28/2024	15:45:00	7.7	0.000	0	29,395	Closed	11.8	119
11/28/2024	16:00:00	7.7	0.000	0	29,395	Closed	13	119
11/28/2024	16:15:00	7.7	0.000	0	29,395	Closed	14	119
11/28/2024	16:30:00	7.7	0.000	0	29,395	Closed	15	119
11/28/2024	16:45:00	7.6	0.000	0	29,395	Closed	15.9	119
11/28/2024	17:00:00	7.6	0.000	0	29,395	Closed	16.6	247
11/28/2024	17:15:00	7.6	0.000	0	29,395	Closed	17.3	245
11/28/2024	17:30:00	7.7	0.820	0	29,407	Open	10.5	119

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	17:45:00	7.7	0.881	0	29,419	Open	10.5	119
11/28/2024	18:00:00	7.7	0.000	0	29,429	Closed	10.7	119
11/28/2024	18:15:00	7.7	0.000	0	29,429	Closed	11.7	119
11/28/2024	18:30:00	7.7	0.000	0	29,429	Closed	12.8	119
11/28/2024	18:45:00	7.7	0.000	0	29,429	Closed	13.9	119
11/28/2024	19:00:00	7.6	0.000	0	29,429	Closed	14.9	119
11/28/2024	19:15:00	7.6	0.000	0	29,429	Closed	15.8	119
11/28/2024	19:30:00	7.7	0.832	0	29,437	Open	10.5	119
11/28/2024	19:45:00	7.7	0.851	0	29,449	Open	10.5	119
11/28/2024	20:00:00	7.8	0.847	0	29,462	Open	10.5	119
11/28/2024	20:15:00	7.8	0.824	0	29,474	Open	10.4	119
11/28/2024	20:30:00	7.8	0.000	0	29,475	Closed	10.9	117
11/28/2024	20:45:00	7.8	0.839	0	29,481	Open	10.1	116
11/28/2024	21:00:00	7.8	0.824	0	29,494	Open	10.1	117
11/28/2024	21:15:00	7.8	0.000	0	29,496	Closed	10.6	117

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/28/2024	21:30:00	7.7	0.779	0	29,499	Open	9.9	114
11/28/2024	21:45:00	7.8	0.858	0	29,512	Open	9.9	114
11/28/2024	22:00:00	7.8	0.858	0	29,524	Open	9.8	112
11/28/2024	22:15:00	7.8	0.000	0	29,529	Open	10.1	114
11/28/2024	22:30:00	7.7	0.000	0	29,529	Open	11	116
11/28/2024	22:45:00	7.7	0.000	0	29,529	Open	11.9	118
11/28/2024	23:00:00	7.8	0.813	0	29,534	Open	10	115
11/28/2024	23:15:00	7.8	0.832	0.7	29,546	Open	9.9	117
11/28/2024	23:30:00	7.8	0.000	9.5	29,555	Open	10	115
11/28/2024	23:45:00	7.7	0.000	0	29,555	Open	12.2	114
11/29/2024	0:00:00	7.7	0.000	380.2	29,555	Open	12.3	113
11/29/2024	0:15:00	7.7	0.276	0	29,556	Open	10.4	111
11/29/2024	0:30:00	7.7	0.000	0	29,556	Open	10.1	111
11/29/2024	0:45:00	7.7	0.000	0	29,556	Open	10.1	110
11/29/2024	1:00:00	7.7	0.000	0.2	29,556	Open	10.2	113

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	1:15:00	7.7	0.000	0	29,556	Open	10.9	115
11/29/2024	1:30:00	7.7	0.824	0	29,566	Open	9.7	114
11/29/2024	1:45:00	7.7	0.378	0	29,576	Open	10.1	112
11/29/2024	2:00:00	7.7	0.000	0.9	29,581	Open	9.8	111
11/29/2024	2:15:00	7.7	0.000	1.9	29,581	Open	10.2	113
11/29/2024	2:30:00	7.7	0.000	3.2	29,581	Open	11	116
11/29/2024	2:45:00	7.7	0.000	5.9	29,581	Open	11.8	116
11/29/2024	3:00:00	7.7	0.000	9.4	29,581	Open	12.5	115
11/29/2024	3:15:00	7.6	0.000	0	29,581	Open	12.6	113
11/29/2024	3:30:00	7.6	0.000	0	29,581	Open	12.5	111
11/29/2024	3:45:00	7.6	0.000	0	29,581	Open	12.3	112
11/29/2024	4:00:00	7.7	0.839	2.8	29,589	Open	9.4	115
11/29/2024	4:15:00	7.7	0.140	4.4	29,602	Open	9.6	114
11/29/2024	4:30:00	7.7	0.000	11.9	29,602	Open	9.9	114
11/29/2024	4:45:00	7.7	0.000	23	29,602	Open	10.1	111

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	5:00:00	7.7	0.000	34.3	29,602	Open	10.2	111
11/29/2024	5:15:00	7.7	0.809	0	29,606	Open	9.4	110
11/29/2024	5:30:00	7.7	0.854	0	29,616	Open	9.4	111
11/29/2024	5:45:00	7.7	0.000	0	29,623	Open	9.5	110
11/29/2024	6:00:00	7.7	0.000	0	29,623	Open	10	114
11/29/2024	6:15:00	7.7	0.000	0	29,623	Open	10.8	116
11/29/2024	6:30:00	7.7	0.000	0	29,623	Open	11.7	117
11/29/2024	6:45:00	7.7	0.805	0	29,625	Open	11.4	118
11/29/2024	7:00:00	7.8	0.809	0	29,637	Open	10.1	118
11/29/2024	7:15:00	7.8	0.000	0	29,648	Open	10.3	117
11/29/2024	7:30:00	7.7	0.000	0	29,648	Open	11.2	118
11/29/2024	7:45:00	7.7	0.000	0	29,648	Open	12.1	118
11/29/2024	8:00:00	7.7	0.000	0	29,648	Open	13.1	119
11/29/2024	8:15:00	7.7	0.193	0.6	29,648	Open	14	119
11/29/2024	8:30:00	7.8	0.828	0	29,660	Open	10.4	118

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	8:45:00	7.8	0.000	0	29,671	Closed	10.5	119
11/29/2024	9:00:00	7.7	0.000	0	29,671	Closed	11.5	119
11/29/2024	9:15:00	7.7	0.000	0	29,671	Closed	12.5	119
11/29/2024	9:30:00	7.7	0.000	0	29,671	Closed	13.5	119
11/29/2024	9:45:00	7.6	0.000	0	29,671	Closed	14.4	119
11/29/2024	10:00:00	7.6	0.000	0	29,671	Closed	15.2	120
11/29/2024	10:15:00	7.6	0.000	0	29,671	Closed	16	119
11/29/2024	10:30:00	7.6	0.000	0	29,671	Closed	16.7	245
11/29/2024	10:45:00	7.6	0.000	0	29,671	Closed	17.3	245
11/29/2024	11:00:00	7.6	0.000	0	29,671	Closed	17.3	243
11/29/2024	11:15:00	7.6	0.000	0	29,671	Closed	17.2	245
11/29/2024	11:30:00	7.6	0.000	1.9	29,671	Closed	16.9	245
11/29/2024	11:45:00	7.7	0.835	14.7	29,671	Closed	12.9	116
11/29/2024	12:00:00	7.7	0.805	19.4	29,671	Closed	9.9	116
11/29/2024	12:15:00	7.8	0.801	0	29,671	Closed	9.8	116

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	12:30:00	7.8	0.813	0	29,671	Closed	9.9	116
11/29/2024	12:45:00	7.8	0.816	0	29,671	Closed	10	117
11/29/2024	13:00:00	7.8	0.000	0	29,671	Closed	9.9	116
11/29/2024	13:15:00	7.8	0.979	0	29,671	Closed	9.9	116
11/29/2024	13:30:00	7.8	0.987	0	29,671	Closed	9.9	116
11/29/2024	13:45:00	7.8	0.782	0	29,671	Closed	10.2	114
11/29/2024	14:00:00	7.8	0.805	0	29,671	Closed	9.8	113
11/29/2024	14:15:00	7.8	0.832	0	29,673	Open	9.8	114
11/29/2024	14:30:00	7.8	0.824	0	29,685	Open	9.9	114
11/29/2024	14:45:00	7.8	0.820	0	29,698	Open	10	116
11/29/2024	15:00:00	7.8	0.801	0	29,710	Open	10.1	116
11/29/2024	15:15:00	7.8	0.809	0	29,722	Open	10.2	117
11/29/2024	15:30:00	7.8	0.000	0	29,734	Open	10.2	118
11/29/2024	15:45:00	7.8	0.000	0	29,734	Open	10.7	114
11/29/2024	16:00:00	7.7	0.000	0	29,734	Open	11	112

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	16:15:00	7.7	0.000	0	29,734	Open	11.3	113
11/29/2024	16:30:00	7.7	0.000	0	29,734	Open	11.8	117
11/29/2024	16:45:00	7.7	0.000	0	29,734	Open	12.7	117
11/29/2024	17:00:00	7.7	0.000	0	29,734	Open	13.5	117
11/29/2024	17:15:00	7.8	0.771	2.7	29,735	Open	12.8	118
11/29/2024	17:30:00	7.8	0.828	0	29,747	Open	10	118
11/29/2024	17:45:00	7.8	0.839	0	29,759	Open	10.1	118
11/29/2024	18:00:00	7.8	0.809	0	29,772	Open	10.2	118
11/29/2024	18:15:00	7.8	0.420	0	29,783	Open	10.7	118
11/29/2024	18:30:00	7.8	0.000	0	29,783	Closed	11.3	119
11/29/2024	18:45:00	7.7	0.000	0	29,783	Closed	12.4	119
11/29/2024	19:00:00	7.7	0.000	0	29,783	Closed	13.5	119
11/29/2024	19:15:00	7.7	0.000	0	29,783	Closed	14.4	119
11/29/2024	19:30:00	7.7	0.000	0	29,783	Closed	15.3	119
11/29/2024	19:45:00	7.7	0.000	0	29,783	Closed	16	119

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Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	20:00:00	7.6	0.000	0	29,783	Closed	16.7	245
11/29/2024	20:15:00	7.8	0.828	0.5	29,792	Open	10.3	119
11/29/2024	20:30:00	7.8	0.835	1	29,805	Open	10.1	116
11/29/2024	20:45:00	7.8	0.843	2.2	29,817	Open	9.9	114
11/29/2024	21:00:00	7.8	0.839	2.4	29,830	Open	9.8	113
11/29/2024	21:15:00	7.8	0.000	0.8	29,831	Closed	10.1	114
11/29/2024	21:30:00	7.7	0.000	0.8	29,831	Closed	10.5	114
11/29/2024	21:45:00	7.7	0.000	1	29,831	Closed	10.7	113
11/29/2024	22:00:00	7.7	0.000	1	29,831	Closed	10.9	111
11/29/2024	22:15:00	7.7	0.000	1	29,831	Closed	11.1	111
11/29/2024	22:30:00	7.7	0.000	0.7	29,831	Closed	11.2	111
11/29/2024	22:45:00	7.7	0.000	0.3	29,831	Closed	11.7	116
11/29/2024	23:00:00	7.8	0.798	3.8	29,831	Open	13	116
11/29/2024	23:15:00	7.7	0.000	0.1	29,840	Open	10.2	118
11/29/2024	23:30:00	7.8	0.873	2.6	29,846	Open	10	116

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/29/2024	23:45:00	7.8	0.869	1.8	29,859	Open	9.9	113
11/30/2024	0:15:00	7.7	0.000	0.5	29,868	Open	10.7	116
11/30/2024	0:30:00	7.7	0.000	0.5	29,868	Open	11.6	116
11/30/2024	0:45:00	7.7	0.000	0.1	29,868	Open	12.6	118
11/30/2024	1:00:00	7.8	0.851	0	29,877	Open	10	116
11/30/2024	1:15:00	7.8	0.851	0	29,889	Open	9.8	115
11/30/2024	1:30:00	7.8	0.843	0	29,902	Open	9.7	113
11/30/2024	1:45:00	7.8	0.862	0	29,915	Open	9.6	113
11/30/2024	2:00:00	7.8	0.000	0	29,922	Open	9.8	114
11/30/2024	2:15:00	7.7	0.000	0	29,922	Open	10.5	116
11/30/2024	2:30:00	7.7	0.000	0	29,922	Open	11.5	117
11/30/2024	2:45:00	7.7	0.000	0	29,922	Open	12.5	118
11/30/2024	3:00:00	7.7	0.000	0	29,922	Open	13.4	118
11/30/2024	3:15:00	7.7	0.000	0	29,922	Open	14.2	118
11/30/2024	3:30:00	7.7	0.000	0	29,922	Open	15	119

		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 Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	3:45:00	7.8	0.862	0	29,932	Open	10	118
11/30/2024	4:00:00	7.8	0.824	8.9	29,944	Open	10	117
11/30/2024	4:15:00	7.8	0.824	40.7	29,957	Open	9.8	113
11/30/2024	4:30:00	7.8	0.835	98.9	29,970	Open	9.8	113
11/30/2024	4:45:00	7.8	0.000	129.1	29,971	Open	10.2	114
11/30/2024	5:00:00	7.7	0.000	158.8	29,971	Open	11	116
11/30/2024	5:15:00	7.7	0.000	183.4	29,971	Open	12	117
11/30/2024	5:30:00	7.7	0.000	0	29,971	Open	12.8	118
11/30/2024	5:45:00	7.7	0.000	0	29,971	Open	13.5	118
11/30/2024	6:00:00	7.7	0.000	0	29,971	Open	14.2	118
11/30/2024	6:15:00	7.7	0.000	0	29,971	Open	14.5	116
11/30/2024	6:30:00	7.6	0.000	0	29,971	Open	14.6	116
11/30/2024	6:45:00	7.7	0.843	7.3	29,972	Open	13.5	117
11/30/2024	7:00:00	7.8	0.862	0	29,985	Open	10.2	118
11/30/2024	7:15:00	7.8	0.847	2.8	29,998	Open	10	114

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Title	WoodFibre Weekly Water Discharge Report	Revision:	0
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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	7:30:00	7.8	0.866	0.7	30,010	Open	10	115
11/30/2024	7:45:00	7.8	0.839	1.6	30,023	Open	10.2	117
11/30/2024	8:00:00	7.8	0.000	0.1	30,024	Open	11	117
11/30/2024	8:15:00	7.7	0.000	0.2	30,024	Open	12	118
11/30/2024	8:30:00	7.7	0.000	0.2	30,024	Open	13	119
11/30/2024	8:45:00	7.7	0.000	0	30,024	Open	14	118
11/30/2024	9:00:00	7.7	0.000	0	30,024	Open	14.8	120
11/30/2024	9:15:00	7.6	0.000	0	30,024	Closed	15.5	119
11/30/2024	9:30:00	7.6	0.000	2.4	30,024	Closed	16.2	119
11/30/2024	9:45:00	7.6	0.000	5.8	30,024	Closed	16.7	119
11/30/2024	10:00:00	7.6	0.000	12	30,024	Closed	17.2	242
11/30/2024	10:15:00	7.8	0.839	19.8	30,024	Closed	10.9	119
11/30/2024	10:30:00	7.8	0.851	20.2	30,035	Open	10.5	119
11/30/2024	10:45:00	7.8	0.858	3.3	30,048	Open	10.5	119
11/30/2024	11:00:00	7.8	0.450	2.8	30,059	Open	11.2	119

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Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	11:15:00	7.8	0.000	2.4	30,071	Closed	10.5	118
11/30/2024	11:30:00	7.8	0.000	1.5	30,071	Closed	11.4	119
11/30/2024	11:45:00	7.7	0.000	1.8	30,071	Closed	12.6	119
11/30/2024	12:00:00	7.7	0.000	1	30,071	Closed	13.7	119
11/30/2024	12:15:00	7.7	0.000	0.9	30,071	Closed	14.7	119
11/30/2024	12:30:00	7.7	0.000	1.1	30,071	Closed	15.6	120
11/30/2024	12:45:00	7.6	0.000	0.7	30,071	Closed	16.3	119
11/30/2024	13:00:00	7.7	0.866	0	30,071	Open	16.5	119
11/30/2024	13:15:00	7.8	0.877	1.1	30,084	Open	10.7	119
11/30/2024	13:30:00	7.8	0.866	1.4	30,097	Open	10.7	119
11/30/2024	13:45:00	7.8	0.885	1.5	30,111	Open	10.7	119
11/30/2024	14:00:00	7.8	0.866	0.4	30,124	Open	10.7	119
11/30/2024	14:15:00	7.8	0.000	0	30,128	Closed	11.2	119
11/30/2024	14:30:00	7.7	0.000	0	30,128	Closed	12.4	119
11/30/2024	14:45:00	7.7	0.000	0	30,128	Closed	13.5	119

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Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024


Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	15:00:00	7.7	0.000	0	30,128	Closed	14.5	118
11/30/2024	15:15:00	7.6	0.000	0	30,128	Closed	15.1	119
11/30/2024	15:30:00	7.6	0.000	0	30,128	Closed	15.9	119
11/30/2024	15:45:00	7.6	0.000	0	30,128	Closed	16.6	119
11/30/2024	16:00:00	7.8	0.885	0.1	30,132	Open	11	119
11/30/2024	16:15:00	7.8	0.873	1.1	30,145	Open	10.8	119
11/30/2024	16:30:00	7.8	0.896	1.5	30,158	Open	10.8	119
11/30/2024	16:45:00	7.8	0.877	1.7	30,171	Open	10.8	119
11/30/2024	17:00:00	7.8	0.000	0.7	30,177	Closed	11.3	119
11/30/2024	17:15:00	7.8	0.000	0.7	30,177	Closed	12.4	119
11/30/2024	17:30:00	7.7	0.000	0.4	30,177	Closed	13.5	119
11/30/2024	17:45:00	7.7	0.000	0.7	30,177	Closed	14.5	119
11/30/2024	18:00:00	7.6	0.000	0.7	30,177	Closed	15.5	120
11/30/2024	18:15:00	7.6	0.000	0.3	30,177	Closed	16.4	119
11/30/2024	18:30:00	7.6	0.000	0.1	30,177	Closed	17.2	121

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	18:45:00	7.6	0.000	0.1	30,177	Closed	17.8	243
11/30/2024	19:00:00	7.8	0.885	16.1	30,177	Closed	16	120
11/30/2024	19:15:00	7.8	0.851	0.2	30,185	Open	10.9	119
11/30/2024	19:30:00	7.8	0.866	0.5	30,198	Open	10.8	118
11/30/2024	19:45:00	7.8	0.835	0.5	30,211	Open	10.8	118
11/30/2024	20:00:00	7.8	0.919	0.5	30,224	Open	10.8	119
11/30/2024	20:15:00	7.8	0.000	0.1	30,232	Closed	11.1	118
11/30/2024	20:30:00	7.8	0.000	0	30,232	Closed	11.7	116
11/30/2024	20:45:00	7.7	0.000	0.2	30,232	Closed	12.1	114
11/30/2024	21:00:00	7.7	0.000	0.1	30,232	Closed	12.6	116
11/30/2024	21:15:00	7.6	0.000	0.1	30,232	Closed	12.9	114
11/30/2024	21:30:00	7.6	0.000	0.9	30,232	Closed	13	111
11/30/2024	21:45:00	7.7	0.862	0.9	30,234	Open	10.4	111
11/30/2024	22:00:00	7.8	0.877	0.7	30,247	Open	10	111
11/30/2024	22:15:00	7.8	0.862	0.5	30,260	Open	10	111

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
11/30/2024	22:30:00	7.8	0.888	0.9	30,273	Open	10	111
11/30/2024	22:45:00	7.8	0.000	0.2	30,285	Closed	10	111
11/30/2024	23:00:00	7.7	0.000	0.1	30,285	Closed	10.3	111
11/30/2024	23:15:00	7.7	0.000	0.1	30,285	Closed	10.6	112
11/30/2024	23:30:00	7.7	0.000	0	30,285	Closed	10.9	111
11/30/2024	23:45:00	7.6	0.000	0	30,285	Closed	11.1	112
12/1/2024	0:00:00	7.6	0.000	0	30,285	Closed	11.5	116
12/1/2024	0:15:00	7.6	0.000	0	30,285	Closed	12.4	116
12/1/2024	0:30:00	7.6	0.000	0	30,285	Closed	12.9	114
12/1/2024	0:45:00	7.6	0.000	0	30,285	Closed	13	113
12/1/2024	1:00:00	7.7	0.881	5	30,291	Open	9.9	114
12/1/2024	1:15:00	7.8	0.858	0	30,303	Open	10.2	116
12/1/2024	1:30:00	7.8	0.854	0	30,316	Open	10.2	116
12/1/2024	1:45:00	7.8	0.851	0	30,329	Open	10.1	115
12/1/2024	2:00:00	7.8	0.000	0	30,336	Closed	10.3	115

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	2:15:00	7.7	0.000	0	30,336	Closed	10.6	114
12/1/2024	2:30:00	7.7	0.000	0	30,336	Closed	10.9	113
12/1/2024	2:45:00	7.7	0.000	0	30,336	Closed	11.5	116
12/1/2024	3:00:00	7.7	0.000	0	30,336	Closed	12.4	117
12/1/2024	3:15:00	7.6	0.000	0	30,336	Closed	13.3	118
12/1/2024	3:30:00	7.6	0.000	0	30,336	Closed	14.1	118
12/1/2024	3:45:00	7.6	0.000	0	30,336	Closed	14.5	117
12/1/2024	4:00:00	7.7	0.835	0	30,339	Open	10.8	116
12/1/2024	4:15:00	7.8	0.843	0	30,352	Open	10.3	116
12/1/2024	4:30:00	7.8	0.839	0	30,362	Open	10.3	115
12/1/2024	4:45:00	7.8	0.847	0	30,375	Open	10.2	114
12/1/2024	5:00:00	7.8	0.000	0	30,385	Closed	10.3	116
12/1/2024	5:15:00	7.8	0.000	0	30,385	Closed	10.8	116
12/1/2024	5:30:00	7.7	0.000	0	30,385	Closed	11.2	114
12/1/2024	5:45:00	7.7	0.000	0	30,385	Closed	11.9	117

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	6:00:00	7.7	0.000	0	30,385	Closed	12.7	117
12/1/2024	6:15:00	7.6	0.000	0	30,385	Closed	13.6	119
12/1/2024	6:30:00	7.6	0.000	0	30,385	Closed	14.2	117
12/1/2024	6:45:00	7.6	0.000	0	30,385	Closed	14.6	118
12/1/2024	7:00:00	7.6	0.000	0	30,385	Closed	15.2	118
12/1/2024	7:15:00	7.8	0.847	0	30,394	Open	10.4	118
12/1/2024	7:30:00	7.8	0.866	0	30,407	Open	10.4	118
12/1/2024	7:45:00	7.8	0.854	0	30,420	Open	10.4	119
12/1/2024	8:00:00	7.8	0.866	0	30,433	Open	10.5	119
12/1/2024	8:15:00	7.8	0.000	0	30,436	Closed	11.1	119
12/1/2024	8:30:00	7.8	0.000	0	30,436	Closed	12.2	119
12/1/2024	8:45:00	7.7	0.000	0	30,436	Closed	13.3	119
12/1/2024	9:00:00	7.7	0.000	0	30,436	Open	14.2	119
12/1/2024	9:15:00	7.6	0.000	0	30,436	Closed	15.1	119
12/1/2024	9:30:00	7.6	0.000	0	30,436	Closed	15.8	119

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	9:45:00	7.6	0.000	0	30,436	Closed	16.6	120
12/1/2024	10:00:00	7.6	0.000	0	30,436	Closed	17.2	245
12/1/2024	10:15:00	7.8	0.877	0	30,441	Open	10.6	121
12/1/2024	10:30:00	7.8	0.873	0	30,454	Open	10.5	119
12/1/2024	10:45:00	7.8	0.873	0	30,467	Open	10.4	119
12/1/2024	11:00:00	7.8	0.851	0	30,479	Open	10.5	119
12/1/2024	11:15:00	7.8	0.000	0	30,492	Closed	10.5	119
12/1/2024	11:30:00	7.8	0.000	0	30,492	Closed	11.5	119
12/1/2024	11:45:00	7.7	0.000	0	30,492	Closed	12.8	119
12/1/2024	12:00:00	7.7	0.000	0	30,492	Closed	14	119
12/1/2024	12:15:00	7.7	0.000	0	30,492	Closed	15	119
12/1/2024	12:30:00	7.6	0.000	0	30,492	Closed	16	121
12/1/2024	12:45:00	7.6	0.000	0	30,492	Closed	16.9	121
12/1/2024	13:00:00	7.6	0.000	0	30,492	Closed	17.7	243
12/1/2024	13:15:00	7.6	0.000	0	30,492	Closed	18.4	242

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Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	13:30:00	7.8	0.873	0	30,501	Open	11	121
12/1/2024	13:45:00	7.8	0.854	0	30,512	Open	10.9	119
12/1/2024	14:00:00	7.8	0.824	0	30,525	Open	11	119
12/1/2024	14:15:00	7.8	0.851	0	30,538	Open	11	119
12/1/2024	14:30:00	7.8	0.000	0	30,545	Closed	11.5	119
12/1/2024	14:45:00	7.7	0.000	0	30,545	Closed	12.6	119
12/1/2024	15:00:00	7.7	0.000	0	30,545	Closed	13.9	119
12/1/2024	15:15:00	7.7	0.000	0	30,545	Closed	14.8	119
12/1/2024	15:30:00	7.6	0.000	0	30,545	Closed	15.6	119
12/1/2024	15:45:00	7.6	0.000	0	30,545	Closed	16.5	121
12/1/2024	16:00:00	7.6	0.000	0	30,545	Closed	17.2	121
12/1/2024	16:15:00	7.6	0.000	0	30,545	Closed	17.9	242
12/1/2024	16:30:00	7.8	0.873	0	30,548	Open	11.6	121
12/1/2024	16:45:00	7.8	0.866	0	30,561	Open	11.3	119
12/1/2024	17:00:00	7.8	0.000	0	30,569	Closed	11.5	119

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	17:15:00	7.7	0.000	0	30,569	Closed	12.6	119
12/1/2024	17:30:00	7.7	0.000	0	30,569	Closed	13.7	119
12/1/2024	17:45:00	7.6	0.000	0	30,569	Closed	14.8	119
12/1/2024	18:00:00	7.8	0.892	0	30,580	Open	11.2	119
12/1/2024	18:15:00	7.8	0.000	0	30,593	Closed	11.1	118
12/1/2024	18:30:00	7.8	0.000	0	30,593	Closed	12.1	119
12/1/2024	18:45:00	7.7	0.000	0	30,593	Closed	13.3	119
12/1/2024	19:00:00	7.7	0.000	0	30,593	Closed	14.4	119
12/1/2024	19:15:00	7.6	0.000	0	30,593	Closed	15.3	119
12/1/2024	19:30:00	7.8	0.873	0	30,601	Open	11.1	121
12/1/2024	19:45:00	7.8	0.835	1.2	30,614	Open	11.1	119
12/1/2024	20:00:00	7.8	0.885	1.6	30,627	Open	11	119
12/1/2024	20:15:00	7.8	0.847	1.9	30,640	Open	11	119
12/1/2024	20:30:00	7.8	0.000	0.7	30,644	Closed	11.3	116
12/1/2024	20:45:00	7.8	0.000	1.5	30,644	Closed	11.7	114

		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Date	Time	Discharge pH	Flow Total (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
12/1/2024	21:00:00	7.7	0.000	1.4	30,644	Closed	11.9	114
12/1/2024	21:15:00	7.7	0.000	1.3	30,644	Closed	12.1	113
12/1/2024	21:30:00	7.6	0.000	1.1	30,644	Closed	12.2	112
12/1/2024	21:45:00	7.6	0.000	1.5	30,644	Closed	12.2	111
12/1/2024	22:00:00	7.6	0.000	0.9	30,644	Closed	12.3	112
12/1/2024	22:15:00	7.6	0.000	0.6	30,644	Closed	12.3	111
12/1/2024	22:30:00	7.8	0.854	1.8	30,656	Open	10	112
12/1/2024	22:45:00	7.8	0.869	1.3	30,669	Open	10.2	114
12/1/2024	23:00:00	7.8	0.858	1.5	30,681	Open	10.4	116
12/1/2024	23:15:00	7.8	0.851	1.2	30,694	Open	10.3	114
12/1/2024	23:30:00	7.8	0.000	0.3	30,695	Closed	11	116
12/1/2024	23:45:00	7.7	0.000	0.6	30,695	Closed	11.5	116

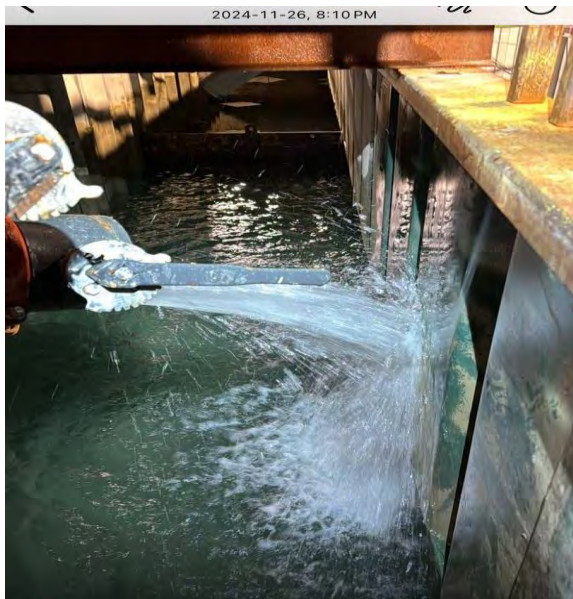
Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Photos:

Photo 1: No visible sheen observed in the WTP water, November 25th



Photo 2: No visible sheen observed in the WTP water, November 26th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Photo 3: No visible sheen observed in the WTP water, November 27th

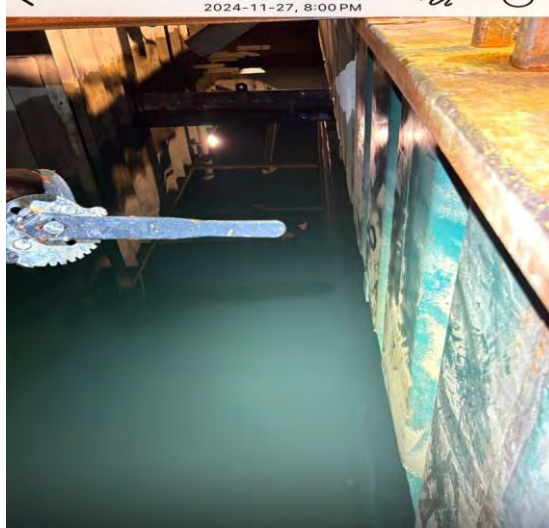
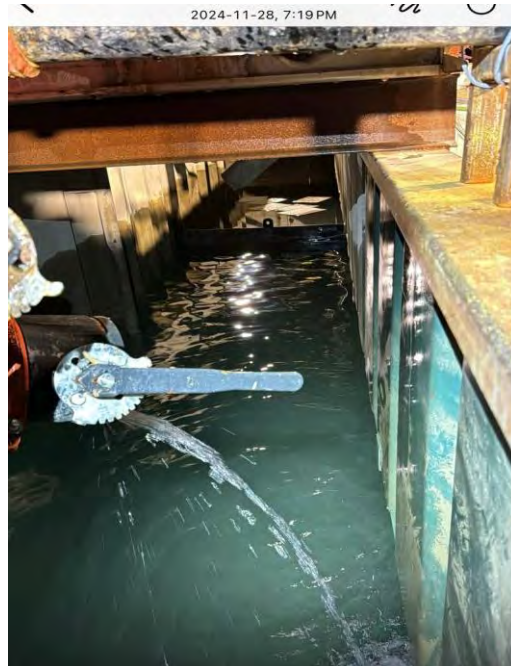


Photo 4: No visible sheen observed in the WTP water, November 28th



Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by: Approved by: Date:	SD BC2 December 4th 2024

Photo 5: No visible sheen observed in the WTP water, November 29th

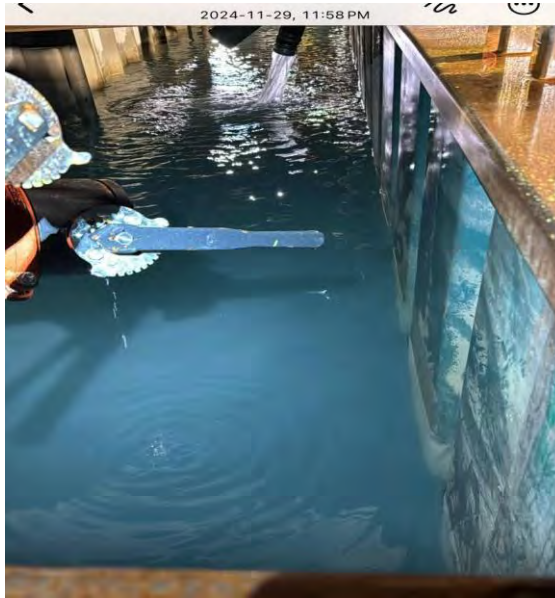



Photo 6: No visible sheen observed in the WTP water, November 30th




Title	WoodFibre Weekly Water Discharge Report	Revision:	0
Data Date Range	November 25th to December 1st, 2024	Prepared by:	SD
		Approved by:	BC2
		Date:	December 4th 2024

Photo 7: No visible sheen observed in the WTP water, December 1st




 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	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	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix D	D-2

Woodfibre Site Receiving Environment Sample Analysis

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix D	D-3

Woodfibre Site Receiving Environment Lab Documentation



CERTIFICATE OF ANALYSIS

Work Order	: VA24D2007		
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact	:	Account Manager	:
Address	:	Address	:
Telephone	:	Telephone	:
Project	:	Date Samples Received	: 26-Nov-2024 17:10
PO	:	Date Analysis Commenced	: 27-Nov-2024
C-O-C number	: ----	Issue Date	: 04-Dec-2024 15:43
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA23-TRIT100-012		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Certificate of Analysis contains the following information:

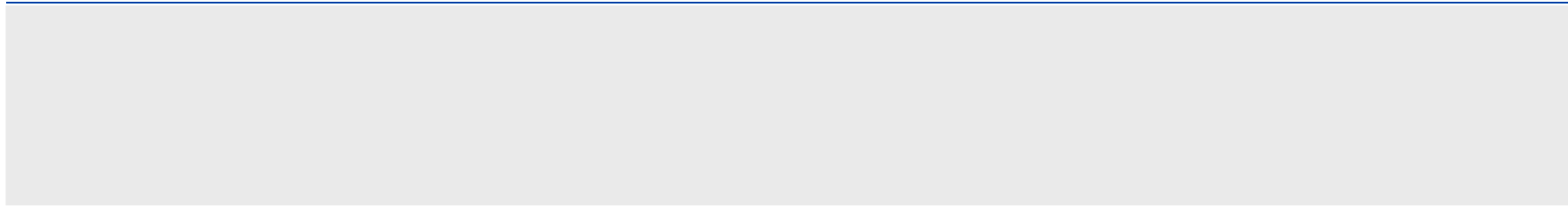
- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
--------------------	-----------------	------------------------------





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>
mg/L	milligrams per litre
µS/cm	microsiemens per centimetre
pH units	pH units
°C	degrees celsius
-	no 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 (Matrix: Water)					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
Client sampling date / time					26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	
					Result	Result	----	----	----	
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm	26.000	70.000	----	----	----	
pH, field	----	EF001/VA	0.10	pH units	6.40	7.30	----	----	----	
Temperature, field	----	EF001/VA	0.10	°C	5.90	6.80	----	----	----	
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L	6.41	24.8	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	6.25	24.3	----	----	----	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	17	38	----	----	----	
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L	<3.0	<3.0	----	----	----	
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L	5.4	26.5	----	----	----	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0052	0.0063	----	----	----	
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	0.79	0.96	----	----	----	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	<0.020	0.084	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L	0.0411	0.0249	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L	0.125	0.101	----	----	----	
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L	0.0287	0.0142	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	2.62	3.19	----	----	----	
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L	2.42	1.61	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	
					Result	Result	----	----	----	
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	0.102	0.149	----	----	----	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00012	0.00027	----	----	----	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00298	0.00376	----	----	----	
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	0.0000105	0.0000052	----	----	----	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	1.99	8.78	----	----	----	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00095	<0.00050	----	----	----	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.040	0.032	----	----	----	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000089	<0.000050	----	----	----	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	0.312	0.574	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00213	0.00237	----	----	----	----
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	0.000323	0.00619	----	----	----	----
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	0.051	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.367	0.427	----	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00036	0.00060	----	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	3.81	4.58	----	----	----	----
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	0.000023	<0.000010	----	----	----	----
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	1.37	1.94	----	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.0101	0.0215	----	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	0.79	1.12	----	----	----	----
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	----	----	----	----
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	0.00121	0.00093	----	----	----	----
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	0.000130	0.000592	----	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	
					Result	Result	----	----	----	
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0073	0.0030	----	----	----	
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	0.0775	0.0572	----	----	----	
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	0.00013	0.00019	----	----	----	
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L	0.00284	0.00342	----	----	----	
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	0.0000071	<0.0000050	----	----	----	
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L	2.06	9.04	----	----	----	
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L	0.00069	0.00035	----	----	----	
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L	0.029	0.012	----	----	----	
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L	0.307	0.549	----	----	----	
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L	0.00142	0.00123	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	
					Result	Result	----	----	----	
Dissolved Metals										
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	0.000318	0.00622	----	----	----	
Nickel, dissolved	7440-02-0	E421/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, dissolved	7723-14-0	E421/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, dissolved	7440-09-7	E421/VA	0.050	mg/L	0.219	0.396	----	----	----	
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L	0.00034	0.00061	----	----	----	
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L	3.64	4.49	----	----	----	
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L	1.29	1.89	----	----	----	
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L	0.0102	0.0221	----	----	----	
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L	0.55	0.79	----	----	----	
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	0.00058	<0.00030	----	----	----	
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L	0.000110	0.000330	----	----	----	
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	0.0020	0.0021	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID		WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time		26-Nov-2024 10:45	26-Nov-2024 11:16	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24D2007-001	VA24D2007-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Dissolved Metals											
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	----	----
Dissolved mercury filtration location	----	EP509/VA	-	-	Field	Field	----	----	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	----	----	----	----	----
Speciated Metals											
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----	----
Chromium, trivalent [Cr III], total	16065-83-1	EC535/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----	----

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

QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA24D2007</p> <p>Client : Triton Environmental Consultants Ltd.</p> <p>Contact :</p> <p>Address :</p> <p>Telephone :</p> <p>Project :</p> <p>PO :</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 :</p> <p>Address :</p> <p>Telephone :</p> <p>Date Samples Received : 26-Nov-2024 17:10</p> <p>Issue Date : 04-Dec-2024 15:43</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	26-Nov-2024	28-Nov-2024	28 days	2 days	✔	03-Dec-2024	28 days	7 days	✔
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG US 1	E298	26-Nov-2024	28-Nov-2024	28 days	2 days	✔	03-Dec-2024	28 days	7 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG DS 1	E235.Br-L	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG US 1	E235.Br-L	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG DS 1	E235.Cl	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG US 1	E235.Cl	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG DS 1	E235.F	26-Nov-2024	27-Nov-2024	28 days	1 days	✔	27-Nov-2024	28 days	1 days	✔



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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Anions and Nutrients : Fluoride in Water by IC											
HDPE WLNG US 1	E235.F	26-Nov-2024	27-Nov-2024	28 days	1 days	✓	27-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO3-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✓	27-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrate in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO3-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✓	27-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG DS 1	E235.NO2-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✓	27-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Nitrite in Water by IC (Low Level)											
HDPE WLNG US 1	E235.NO2-L	26-Nov-2024	27-Nov-2024	3 days	1 days	✓	27-Nov-2024	3 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG DS 1	E235.SO4	26-Nov-2024	27-Nov-2024	28 days	1 days	✓	27-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Sulfate in Water by IC											
HDPE WLNG US 1	E235.SO4	26-Nov-2024	27-Nov-2024	28 days	1 days	✓	27-Nov-2024	28 days	1 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG DS 1	E366	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	2 days	✓	
Anions and Nutrients : Total Nitrogen by Colourimetry											
Amber glass total (sulfuric acid) WLNG US 1	E366	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-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) WLNG DS 1	E372-U	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	2 days	✓	
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)											
Amber glass total (sulfuric acid) WLNG US 1	E372-U	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	2 days	✓	
Dissolved Metals : Dissolved Mercury in Water by CVAAS											
Glass vial dissolved (hydrochloric acid) WLNG DS 1	E509	26-Nov-2024	03-Dec-2024	28 days	7 days	✓	03-Dec-2024	28 days	7 days	✓	
Dissolved Metals : Dissolved Mercury in Water by CVAAS											
Glass vial dissolved (hydrochloric acid) WLNG US 1	E509	26-Nov-2024	03-Dec-2024	28 days	7 days	✓	03-Dec-2024	28 days	7 days	✓	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) WLNG DS 1	E421	26-Nov-2024	28-Nov-2024	180 days	2 days	✓	29-Nov-2024	180 days	3 days	✓	
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS											
HDPE dissolved (nitric acid) WLNG US 1	E421	26-Nov-2024	28-Nov-2024	180 days	2 days	✓	29-Nov-2024	180 days	3 days	✓	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine											
Glass vial dissolved (hydrochloric acid) WLNG DS 1	EF001	26-Nov-2024	----	----	----		27-Nov-2024	----	1 days		
Field Tests : Field pH,EC,Salinity, TDS, Cl2,CIO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine											
Glass vial dissolved (hydrochloric acid) WLNG US 1	EF001	26-Nov-2024	----	----	----		27-Nov-2024	----	1 days		
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (sulfuric acid) WLNG DS 1	E358-L	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	2 days	✓	



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

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis				
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)											
Amber glass dissolved (sulfuric acid) WLNG US 1	E358-L	26-Nov-2024	28-Nov-2024	28 days	2 days	✓	28-Nov-2024	28 days	2 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE WLNG DS 1	E290	26-Nov-2024	27-Nov-2024	14 days	1 days	✓	27-Nov-2024	14 days	1 days	✓	
Physical Tests : Alkalinity Species by Titration											
HDPE WLNG US 1	E290	26-Nov-2024	27-Nov-2024	14 days	1 days	✓	27-Nov-2024	14 days	1 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE WLNG DS 1	E162	26-Nov-2024	----	----	----		29-Nov-2024	7 days	3 days	✓	
Physical Tests : TDS by Gravimetry											
HDPE WLNG US 1	E162	26-Nov-2024	----	----	----		29-Nov-2024	7 days	3 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE WLNG DS 1	E160	26-Nov-2024	----	----	----		29-Nov-2024	7 days	3 days	✓	
Physical Tests : TSS by Gravimetry											
HDPE WLNG US 1	E160	26-Nov-2024	----	----	----		29-Nov-2024	7 days	3 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
Opaque HDPE - total (sodium hydroxide) WLNG DS 1	E532	26-Nov-2024	----	----	----		26-Nov-2024	28 days	0 days	✓	
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC											
Opaque HDPE - total (sodium hydroxide) WLNG US 1	E532	26-Nov-2024	----	----	----		26-Nov-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		
Total Metals : Total Mercury in Water by CVAAS											
Glass vial total (hydrochloric acid) WLNG DS 1	E508	26-Nov-2024	02-Dec-2024	28 days	6 days	✔	02-Dec-2024	28 days	6 days	✔	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial total (hydrochloric acid) WLNG US 1	E508	26-Nov-2024	02-Dec-2024	28 days	6 days	✔	02-Dec-2024	28 days	6 days	✔	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) WLNG DS 1	E420	26-Nov-2024	28-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	3 days	✔	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE total (nitric acid) WLNG US 1	E420	26-Nov-2024	28-Nov-2024	180 days	2 days	✔	29-Nov-2024	180 days	3 days	✔	
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)											
HDPE total (zinc acetate+sodium hydroxide) WLNG DS 1	E395	26-Nov-2024	----	----	----		27-Nov-2024	7 days	1 days	✔	
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)											
HDPE total (zinc acetate+sodium hydroxide) WLNG US 1	E395	26-Nov-2024	----	----	----		27-Nov-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	1785602	1	11	9.0	5.0	✔
Ammonia by Fluorescence	E298	1787212	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785608	1	4	25.0	5.0	✔
Chloride in Water by IC	E235.Cl	1785606	1	7	14.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1787208	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785607	1	6	16.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785609	1	10	10.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785610	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1785605	1	11	9.0	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Nitrogen by Colourimetry	E366	1787214	1	8	12.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1787210	1	17	5.8	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Alkalinity Species by Titration	E290	1785602	1	11	9.0	5.0	✔
Ammonia by Fluorescence	E298	1787212	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785608	1	4	25.0	5.0	✔
Chloride in Water by IC	E235.Cl	1785606	1	7	14.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1787208	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785607	1	6	16.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785609	1	10	10.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785610	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1785605	1	11	9.0	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Nitrogen by Colourimetry	E366	1787214	1	8	12.5	5.0	✔



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Control Samples (LCS) - Continued							
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1787210	1	17	5.8	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Method Blanks (MB)							
Alkalinity Species by Titration	E290	1785602	1	11	9.0	5.0	✔
Ammonia by Fluorescence	E298	1787212	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785608	1	4	25.0	5.0	✔
Chloride in Water by IC	E235.Cl	1785606	1	7	14.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1787208	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785607	1	6	16.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785609	1	10	10.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785610	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1785605	1	11	9.0	5.0	✔
TDS by Gravimetry	E162	1790009	1	20	5.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Nitrogen by Colourimetry	E366	1787214	1	8	12.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1787210	1	17	5.8	5.0	✔
Total Sulfide by Colourimetry (Automated Flow)	E395	1785867	1	7	14.2	5.0	✔
TSS by Gravimetry	E160	1790007	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1787212	1	20	5.0	5.0	✔
Bromide in Water by IC (Low Level)	E235.Br-L	1785608	1	4	25.0	5.0	✔
Chloride in Water by IC	E235.Cl	1785606	1	7	14.2	5.0	✔
Dissolved Mercury in Water by CVAAS	E509	1794302	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	1785768	1	20	5.0	5.0	✔
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1787208	1	15	6.6	5.0	✔
Fluoride in Water by IC	E235.F	1785607	1	6	16.6	5.0	✔
Nitrate in Water by IC (Low Level)	E235.NO3-L	1785609	1	10	10.0	5.0	✔
Nitrite in Water by IC (Low Level)	E235.NO2-L	1785610	1	4	25.0	5.0	✔
Sulfate in Water by IC	E235.SO4	1785605	1	11	9.0	5.0	✔
Total Hexavalent Chromium (Cr VI) by IC	E532	1785004	1	17	5.8	5.0	✔
Total Mercury in Water by CVAAS	E508	1792002	1	20	5.0	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1785748	1	19	5.2	5.0	✔
Total Nitrogen by Colourimetry	E366	1787214	1	8	12.5	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1787210	1	17	5.8	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	1785867	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 - Vancouver	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 - Vancouver	Water	APHA 3030B/6020A/EPA 7196A (mod)	Chromium (III)-Total is calculated as the difference between the total chromium and the total hexavalent chromium (Cr(VI)) results. The Limit of Reporting for Chromium (III) varies as a function of the test results.
Field pH,EC,Salinity, 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	: VA24D2007	Page	: 1 of 17
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact	: [REDACTED]	Account Manager	: [REDACTED]
Address	: [REDACTED]	Address	: [REDACTED]
Telephone	: [REDACTED]	Telephone	: [REDACTED]
Project	: [REDACTED]	Date Samples Received	: 26-Nov-2024 17:10
PO	: [REDACTED]	Date Analysis Commenced	: 26-Nov-2024
C-O-C number	: ----	Issue Date	: 04-Dec-2024 15:43
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA23-TRIT100-012_V2		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Quality Control Report contains the following information:

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
[REDACTED SIGNATURES]		



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: 1785602)											
VA24D1850-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	164	158	3.13%	20%	----
Physical Tests (QC Lot: 1790007)											
FJ2403573-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	8.7	9.9	1.2	Diff <2x LOR	----
Physical Tests (QC Lot: 1790009)											
FJ2403573-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	290	302	4.05%	20%	----
Anions and Nutrients (QC Lot: 1785605)											
VA24D1939-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1.50	mg/L	502	500	0.375%	20%	----
Anions and Nutrients (QC Lot: 1785606)											
VA24D1939-001	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	66.3	66.1	0.255%	20%	----
Anions and Nutrients (QC Lot: 1785607)											
VA24D1939-001	Anonymous	Fluoride	16984-48-8	E235.F	0.100	mg/L	0.376	0.374	0.002	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785608)											
VA24D1939-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.250	mg/L	0.260	0.273	0.013	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1785609)											
VA24D1939-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0250	mg/L	1.22	1.22	0.0496%	20%	----
Anions and Nutrients (QC Lot: 1785610)											
VA24D1939-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1787210)											
VA24D1876-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0173	0.0183	0.0010	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1787212)											
VA24D1876-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.500	mg/L	12.3	12.1	1.81%	20%	----
Anions and Nutrients (QC Lot: 1787214)											
VA24D1876-001	Anonymous	Nitrogen, total	7727-37-9	E366	15.0	mg/L	108	98.6	9.09	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1787208)											
VA24D1876-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	49.9	52.8	5.64%	20%	----
Total Sulfides (QC Lot: 1785867)											
VA24D2004-001	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: 1785748)											
VA24D1939-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0094	0.0088	0.0006	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----



Sub-Matrix: Water					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1785748) - continued											
VA24D1939-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00076	0.00077	0.000008	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0903	0.0894	0.903%	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	0.039	0.038	0.0008	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000100	mg/L	<0.0000100	<0.0000100	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	156	154	1.48%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000012	0.000011	0.000001	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	0.00130	0.00130	0.000004	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.021	0.020	0.0009	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	0.0094	0.0091	0.0003	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	53.4	53.2	0.354%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0226	0.0224	0.905%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.0405	0.0409	1.05%	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	0.300	mg/L	<0.300	<0.300	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	12.9	12.4	3.50%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00170	0.00153	0.00017	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000477	0.000480	0.000002	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	13.3	13.2	0.644%	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	82.3	81.9	0.426%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	1.11	1.12	1.26%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	185	184	0.650%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	0.00022	0.00023	0.000008	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	0.0100	mg/L	<0.0100	<0.0100	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.00397	0.00408	2.66%	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: 1785748) - continued											
VA24D1939-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00207	0.00210	0.00003	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: 1792002)											
VA24D1962-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1785768)											
VA24D1844-001	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	0.00012	0.00013	0.000003	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00300	0.00286	4.60%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0745	0.0743	0.263%	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	0.00134	0.00134	0.596%	20%	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	175	175	0.128%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.00159	0.00164	3.08%	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	0.00012	0.00013	0.00001	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00300	0.00287	4.12%	20%	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0117	0.0120	2.65%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.100	mg/L	43.8	44.2	0.960%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0196	0.0190	3.41%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00102	0.00104	2.12%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.0114	0.0112	1.57%	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	0.100	mg/L	1.80	1.79	0.573%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00408	0.00398	2.30%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.0275	0.0271	1.18%	20%	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	9.36	9.08	2.94%	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	12.1	11.6	3.98%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.511	0.508	0.625%	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: 1785768) - continued											
VA24D1844-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	20.5	20.5	0.178%	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	0.00436	0.00429	1.66%	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	0.0789	0.0780	1.14%	20%	----
		Zirconium, dissolved	7440-67-7	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1794302)											
VA24D1844-001	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1785004)											
FJ2403566-004	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: 1785602)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1790007)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1790009)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1785605)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1785606)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1785607)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1785608)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1785609)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1785610)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1787210)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1787212)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1787214)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Organic / Inorganic Carbon (QCLot: 1787208)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1785867)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1785748)						
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: 1785748) - 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: 1792002)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1785768)						
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: 1785768) - 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: 1794302)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1785004)						
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: 1785602)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	105	85.0	115	----
Physical Tests (QCLot: 1790007)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	99.5	85.0	115	----
Physical Tests (QCLot: 1790009)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	102	85.0	115	----
Anions and Nutrients (QCLot: 1785605)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 1785606)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	97.4	90.0	110	----
Anions and Nutrients (QCLot: 1785607)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.2	90.0	110	----
Anions and Nutrients (QCLot: 1785608)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	107	85.0	115	----
Anions and Nutrients (QCLot: 1785609)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	97.7	90.0	110	----
Anions and Nutrients (QCLot: 1785610)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	97.9	90.0	110	----
Anions and Nutrients (QCLot: 1787210)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	95.5	80.0	120	----
Anions and Nutrients (QCLot: 1787212)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	112	85.0	115	----
Anions and Nutrients (QCLot: 1787214)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	99.2	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1787208)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	114	80.0	120	----
Total Sulfides (QCLot: 1785867)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	100	80.0	120	----
Total Metals (QCLot: 1785748)									



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: 1785748) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	107	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	103	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	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	101	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	97.9	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	106	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	97.7	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	95.5	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	104	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	95.0	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	103	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	101	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	109	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	96.6	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	102	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	105	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	103	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	110	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	91.0	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	97.0	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	95.9	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	95.6	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	104	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	99.3	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	99.3	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	104	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	104	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1785748) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	106	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	107	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	96.7	80.0	120	----
Total Metals (QCLot: 1792002)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	100	80.0	120	----
Dissolved Metals (QCLot: 1785768)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	96.4	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	102	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	97.0	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	97.7	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	97.0	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	101	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	96.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	97.5	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	98.8	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	98.6	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	98.4	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	99.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	95.5	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	93.6	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	100	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	100	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	96.0	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	93.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	98.8	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	100	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.3	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	100	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	96.1	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	99.6	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	100	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	90.2	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals (QCLot: 1785768) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	96.4	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	97.4	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	92.0	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	96.0	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.7	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	100.0	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	98.9	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	96.5	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	100	80.0	120	----
Speciated Metals (QCLot: 1785004)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	101	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: 1785605)										
VA24D2007-001	WLNG US 1	Sulfate (as SO4)	14808-79-8	E235.SO4	103 mg/L	100 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1785606)										
VA24D2007-001	WLNG US 1	Chloride	16887-00-6	E235.Cl	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1785607)										
VA24D2007-001	WLNG US 1	Fluoride	16984-48-8	E235.F	1.05 mg/L	1 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 1785608)										
VA24D2007-001	WLNG US 1	Bromide	24959-67-9	E235.Br-L	0.552 mg/L	0.5 mg/L	110	75.0	125	----
Anions and Nutrients (QCLot: 1785609)										
VA24D2007-001	WLNG US 1	Nitrate (as N)	14797-55-8	E235.NO3-L	2.56 mg/L	2.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1785610)										
VA24D2007-001	WLNG US 1	Nitrite (as N)	14797-65-0	E235.NO2-L	0.516 mg/L	0.5 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1787210)										
VA24D1876-003	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0468 mg/L	0.05 mg/L	93.6	70.0	130	----
Anions and Nutrients (QCLot: 1787212)										
VA24D1876-003	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1787214)										
VA24D1876-003	Anonymous	Nitrogen, total	7727-37-9	E366	ND mg/L	----	ND	70.0	130	----
Organic / Inorganic Carbon (QCLot: 1787208)										
VA24D1876-003	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	ND mg/L	----	ND	70.0	130	----
Total Sulfides (QCLot: 1785867)										
VA24D2007-001	WLNG US 1	Sulfide, total (as S)	18496-25-8	E395	0.184 mg/L	0.2 mg/L	92.2	75.0	125	----
Total Metals (QCLot: 1785748)										
VA24D1968-001	Anonymous	Aluminum, total	7429-90-5	E420	0.197 mg/L	0.2 mg/L	98.3	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0197 mg/L	0.02 mg/L	98.3	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0211 mg/L	0.02 mg/L	105	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0374 mg/L	0.04 mg/L	93.4	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00968 mg/L	0.01 mg/L	96.8	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00414 mg/L	0.004 mg/L	104	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00963 mg/L	0.01 mg/L	96.3	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	----




Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1785748) - continued										
VA24D1968-001	Anonymous	Cobalt, total	7440-48-4	E420	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	----
		Copper, total	7440-50-8	E420	0.0187 mg/L	0.02 mg/L	93.6	70.0	130	----
		Iron, total	7439-89-6	E420	ND mg/L	----	ND	70.0	130	----
		Lead, total	7439-92-1	E420	0.0196 mg/L	0.02 mg/L	98.2	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0887 mg/L	0.1 mg/L	88.7	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	0.0199 mg/L	0.02 mg/L	99.6	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0375 mg/L	0.04 mg/L	93.8	70.0	130	----
		Phosphorus, total	7723-14-0	E420	10.1 mg/L	10 mg/L	101	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0198 mg/L	0.02 mg/L	99.0	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0406 mg/L	0.04 mg/L	101	70.0	130	----
		Silicon, total	7440-21-3	E420	ND mg/L	----	ND	70.0	130	----
		Silver, total	7440-22-4	E420	0.00378 mg/L	0.004 mg/L	94.6	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	19.9 mg/L	20 mg/L	99.5	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0396 mg/L	0.04 mg/L	99.0	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00390 mg/L	0.004 mg/L	97.4	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0180 mg/L	0.02 mg/L	90.3	70.0	130	----
		Tin, total	7440-31-5	E420	0.0195 mg/L	0.02 mg/L	97.6	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0404 mg/L	0.04 mg/L	101	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0202 mg/L	0.02 mg/L	101	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00424 mg/L	0.004 mg/L	106	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.101 mg/L	0.1 mg/L	101	70.0	130	----
		Zinc, total	7440-66-6	E420	0.373 mg/L	0.4 mg/L	93.2	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0403 mg/L	0.04 mg/L	101	70.0	130	----
Total Metals (QCLot: 1792002)										
VA24D1963-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000927 mg/L	0 mg/L	92.7	70.0	130	----
Dissolved Metals (QCLot: 1785768)										
VA24D1844-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.367 mg/L	0.4 mg/L	91.8	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	ND mg/L	----	ND	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0381 mg/L	0.04 mg/L	95.3	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0756 mg/L	0.08 mg/L	94.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.0176 mg/L	0.02 mg/L	88.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.197 mg/L	0.2 mg/L	98.3	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00751 mg/L	0.008 mg/L	93.9	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.0194 mg/L	0.02 mg/L	96.8	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0749 mg/L	0.08 mg/L	93.6	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0377 mg/L	0.04 mg/L	94.2	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: 1785768) - continued										
VA24D1844-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.0367 mg/L	0.04 mg/L	91.7	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0367 mg/L	0.04 mg/L	91.6	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.184 mg/L	0.2 mg/L	92.2	70.0	130	----
		Magnesium, dissolved	7439-95-4	E421	ND mg/L	----	ND	70.0	130	----
		Manganese, dissolved	7439-96-5	E421	ND mg/L	----	ND	70.0	130	----
		Molybdenum, dissolved	7439-98-7	E421	0.0400 mg/L	0.04 mg/L	99.9	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0719 mg/L	0.08 mg/L	89.9	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	18.7 mg/L	20 mg/L	93.6	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	7.58 mg/L	8 mg/L	94.8	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0396 mg/L	0.04 mg/L	99.0	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0847 mg/L	0.08 mg/L	106	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	ND mg/L	----	ND	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00767 mg/L	0.008 mg/L	95.9	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0828 mg/L	0.08 mg/L	103	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00727 mg/L	0.008 mg/L	90.9	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0337 mg/L	0.04 mg/L	84.3	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0383 mg/L	0.04 mg/L	95.7	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0784 mg/L	0.08 mg/L	98.0	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0371 mg/L	0.04 mg/L	92.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	ND mg/L	----	ND	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.196 mg/L	0.2 mg/L	97.8	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.728 mg/L	0.8 mg/L	91.1	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0778 mg/L	0.08 mg/L	97.2	70.0	130	----
Dissolved Metals (QCLot: 1794302)										
VA24D1844-002	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000984 mg/L	0 mg/L	98.4	70.0	130	----
Speciated Metals (QCLot: 1785004)										
FJ2403566-005	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.260 mg/L	0.25 mg/L	104	70.0	130	----

 Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report	Reporting Week	Nov. 25 th to Dec. 1 st , 2024
	Report #	36
	Appendix D	D-4

Woodfibre Site Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-11-26-Chycoski-E4CFA

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge
Inspection Date:	11/26/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669246 -123.248128
Temperature(c): Low 2 High 7		Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 11:16:13 **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

Removed wiper to try and diagnose data transmission error. Calibrated pH, and restarted sonde to try and fix error. Left deployed in East Creek to see if problem is resolved over time.

Photos

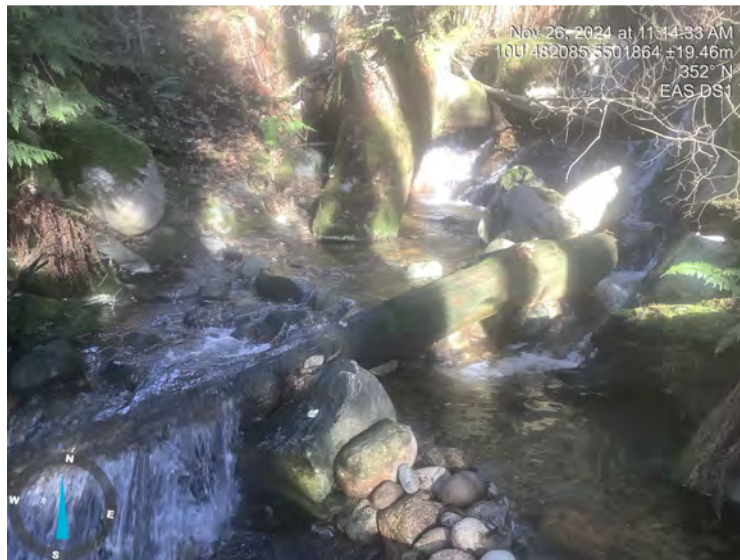


Photo: 1
Location: EAS DS 1
Description: US view



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



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

2024-11-26-Chycoski-A15F1

Project Component:	Tunnel	Site Name:	Receiving Environment - Upstream of Discharge
Inspection Date:	11/26/2024	Location:	WLNG
Triton QP:	Lily Chycoski	Latitude/Longitude:	49.669455 -123.25087
Temperature(c):	Low 2 High 7	Permit:	PE 110136
Weather Conditions:	Clear	Ground Conditions:	Damp

Observations

Time: 10:45:38 **Flow Volume (visual):** moderate

Notes:

Odour Detected?: No **Notes:**

Unusual Colour?: No **Notes:**

Unusual Observations?: No **Notes:**

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

Samples Collected - Parameters

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

Logger Maintenance

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

Photos



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



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



2024-11-26-Chycoski-A15F1

Sign Off

Report Prepared By: Lily Chycoski

Report Reviewed: Yes

Report Reviewer:

Professional(s) of Record:

Name:

Designation:

Designation Number:

Woodfibre Plant site East Creek (WC 309-R2)		EAS DS1						EAS US1 (Background)					
Date	Temperature (c)	Specific Conductivity (µS/cm)	Salinity PSU	pH	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Date	Temperature (c)	Specific Conductivity (µS/cm)	Salinity PSU	pH	Dissolved Oxygen (mg/L)	Turbidity (NTU)
11/25/2024 0:00	6.9	24.2	7.2	11.1	0.0	5.2	11/25/2024 0:00	7.0	18.9	7.3	10.9	0.0	0.1
11/25/2024 0:15	6.9	24.1	7.2	11.1	0.0	5.3	11/25/2024 0:15	7.0	18.7	7.2	10.9	0.0	0.1
11/25/2024 0:30	6.9	24.0	7.2	11.1	0.0	4.9	11/25/2024 0:30	7.1	18.6	7.2	10.9	0.0	0.1
11/25/2024 0:45	6.9	24.1	7.1	11.1	0.0	5.0	11/25/2024 0:45	7.0	18.5	7.2	10.9	0.0	0.1
11/25/2024 1:00	7.7	57.3	0.0	7.2	11.0	4.8	11/25/2024 1:00	7.2	18.8	0.0	7.0	10.9	0.4
11/25/2024 1:15	7.6	50.0	0.0	7.3	11.0	5.3	11/25/2024 1:15	7.2	18.5	0.0	7.0	10.9	0.0
11/25/2024 1:30	7.2	26.8	0.0	7.3	11.1	4.9	11/25/2024 1:30	7.2	18.4	0.0	7.1	10.9	0.1
11/25/2024 1:45	7.1	25.3	0.0	7.1	11.1	5.4	11/25/2024 1:45	7.2	18.6	0.0	7.1	10.9	0.1
11/25/2024 2:00	7.1	24.6	0.0	7.0	11.1	5.0	11/25/2024 2:00	7.1	18.4	0.0	6.9	10.9	0.3
11/25/2024 2:15	7.1	25.2	0.0	7.0	11.1	5.0	11/25/2024 2:15	7.1	18.3	0.0	7.0	10.9	0.2
11/25/2024 2:30	7.6	57.8	0.0	7.2	11.0	7.5	11/25/2024 2:30	7.1	18.3	0.0	7.1	10.9	0.2
11/25/2024 2:45	7.7	58.5	0.0	7.4	11.0	4.9	11/25/2024 2:45	7.1	18.1	0.0	7.0	10.9	0.8
11/25/2024 3:00	7.3	28.3	0.0	7.5	11.0	5.0	11/25/2024 3:00	7.1	18.2	0.0	7.0	10.9	0.1
11/25/2024 3:15	7.6	58.2	0.0	7.3	11.0	5.3	11/25/2024 3:15	7.1	18.0	0.0	6.9	10.9	0.1
11/25/2024 3:30	7.7	58.9	0.0	7.4	11.0	4.8	11/25/2024 3:30	7.1	18.1	0.0	7.1	10.9	0.1
11/25/2024 3:45	7.3	29.1	0.0	7.5	11.0	5.5	11/25/2024 3:45	7.1	18.1	0.0	6.9	10.9	1.0
11/25/2024 4:00	7.1	24.4	0.0	7.2	11.1	4.8	11/25/2024 4:00	7.0	18.1	0.0	7.1	10.9	0.1
11/25/2024 4:15	7.0	24.1	0.0	7.1	11.1	4.9	11/25/2024 4:15	7.0	18.2	0.0	7.0	10.9	0.2
11/25/2024 4:30	7.0	23.9	0.0	7.0	11.2	4.8	11/25/2024 4:30	7.0	18.2	0.0	6.9	10.9	0.3
11/25/2024 4:45	6.9	23.8	0.0	7.0	11.2	5.0	11/25/2024 4:45	7.0	18.2	0.0	6.8	10.9	0.1
11/25/2024 5:00	6.9	23.7	0.0	7.0	11.2	4.8	11/25/2024 5:00	7.0	18.2	0.0	7.0	11.0	0.2
11/25/2024 5:15	6.9	23.6	0.0	6.9	11.2	5.0	11/25/2024 5:15	6.9	18.4	0.0	6.9	11.0	0.5
11/25/2024 5:30	6.8	24.3	0.0	6.9	11.2	5.2	11/25/2024 5:30	6.9	18.1	0.0	7.1	11.0	0.1
11/25/2024 5:45	7.2	51.6	0.0	7.0	11.1	5.5	11/25/2024 5:45	6.9	18.3	0.0	7.0	11.0	0.5
11/25/2024 6:00	7.4	58.1	0.0	7.2	11.1	5.5	11/25/2024 6:00	6.9	17.9	0.0	6.9	11.0	0.4
11/25/2024 6:15	7.5	60.0	0.0	7.4	11.0	5.1	11/25/2024 6:15	6.8	17.8	0.0	7.0	11.0	0.3
11/25/2024 6:30	7.5	60.2	0.0	7.4	11.0	4.9	11/25/2024 6:30	6.8	17.8	0.0	7.0	11.0	0.7
11/25/2024 6:45	7.0	29.8	0.0	7.5	11.1	5.5	11/25/2024 6:45	6.8	17.6	0.0	7.1	11.0	0.5
11/25/2024 7:00	6.8	25.3	0.0	7.2	11.2	6.4	11/25/2024 7:00	6.8	17.5	0.0	6.9	11.0	0.4
11/25/2024 7:15	6.7	24.2	0.0	7.1	11.2	5.5	11/25/2024 7:15	6.7	17.5	0.0	6.9	11.0	0.2
11/25/2024 7:30	6.6	23.6	0.0	7.0	11.3	5.9	11/25/2024 7:30	6.7	17.4	0.0	7.1	11.0	0.3
11/25/2024 7:45	6.6	23.2	0.0	7.0	11.3	5.4	11/25/2024 7:45	6.7	17.4	0.0	7.0	11.0	0.2
11/25/2024 8:00	6.6	23.1	0.0	6.9	11.3	5.4	11/25/2024 8:00	6.7	17.4	0.0	6.9	11.0	0.2
11/25/2024 8:15	6.5	23.6	0.0	6.9	11.3	5.2	11/25/2024 8:15	6.6	17.5	0.0	7.0	11.1	0.2
11/25/2024 8:30	7.1	58.6	0.0	7.1	11.1	5.1	11/25/2024 8:30	6.6	17.5	0.0	7.0	11.1	0.1
11/25/2024 8:45	7.2	60.1	0.0	7.3	11.1	4.7	11/25/2024 8:45	6.6	17.5	0.0	7.0	11.1	0.2
11/25/2024 9:00	7.3	60.3	0.0	7.4	11.1	4.7	11/25/2024 9:00	6.6	17.2	0.0	7.0	11.1	0.1
11/25/2024 9:15	7.3	60.3	0.0	7.5	11.1	4.7	11/25/2024 9:15	6.5	17.1	0.0	7.0	11.1	0.2
11/25/2024 9:30	6.6	25.3	0.0	7.4	11.3	5.0	11/25/2024 9:30	6.5	17.2	0.0	6.8	11.1	0.1
11/25/2024 9:45	6.5	23.9	0.0	7.1	11.3	4.9	11/25/2024 9:45	6.5	17.3	0.0	6.9	11.1	0.1
11/25/2024 10:00	6.5	23.3	0.0	7.1	11.3	5.1	11/25/2024 10:00	6.5	17.1	0.0	7.0	11.1	0.2
11/25/2024 10:15	6.5	22.9	0.0	7.0	11.3	5.1	11/25/2024 10:15	6.5	17.2	0.0	7.0	11.1	0.1
11/25/2024 10:30	6.5	22.7	0.0	6.9	11.3	4.9	11/25/2024 10:30	6.6	16.9	0.0	7.0	11.1	0.1
11/25/2024 10:45	6.5	22.6	0.0	6.9	11.3	4.9	11/25/2024 10:45	6.6	16.9	0.0	7.0	11.1	0.0
11/25/2024 11:00	6.5	22.8	0.0	6.9	11.3	5.1	11/25/2024 11:00	6.6	17.2	0.0	7.0	11.1	0.1
11/25/2024 11:15	6.6	25.2	0.0	6.9	11.3	5.0	11/25/2024 11:15	6.7	16.8	0.0	7.1	11.1	0.1
11/25/2024 11:30	7.3	60.2	0.0	7.3	11.1	4.8	11/25/2024 11:30	6.7	16.8	0.0	7.1	11.1	0.1
11/25/2024 11:45	7.4	60.7	0.0	7.4	11.1	4.6	11/25/2024 11:45	6.7	16.7	0.0	7.1	11.1	0.1
11/25/2024 12:00	7.5	60.8	0.0	7.5	11.1	4.8	11/25/2024 12:00	6.7	16.8	0.0	7.1	11.1	0.1
11/25/2024 12:15	6.9	25.0	0.0	7.3	11.2	4.9	11/25/2024 12:15	6.8	16.9	0.0	6.9	11.1	0.1
11/25/2024 12:30	6.8	23.5	0.0	7.1	11.2	4.9	11/25/2024 12:30	6.8	16.9	0.0	7.0	11.1	0.1
11/25/2024 12:45	6.8	22.8	0.0	7.0	11.2	4.9	11/25/2024 12:45	6.8	16.8	0.0	6.9	11.0	0.0
11/25/2024 13:00	6.8	22.5	0.0	7.0	11.2	5.0	11/25/2024 13:00	6.9	16.7	0.0	7.0	11.1	0.1
11/25/2024 13:15	6.8	22.3	0.0	7.0	11.2	4.9	11/25/2024 13:15	6.9	16.7	0.0	7.0	11.0	0.1
11/25/2024 13:30	6.9	23.0	0.0	6.9	11.2	4.8	11/25/2024 13:30	6.9	16.6	0.0	6.8	11.0	0.1
11/25/2024 13:45	7.4	57.6	0.0	7.0	11.1	4.8	11/25/2024 13:45	6.9	16.5	0.0	7.0	11.0	0.0
11/25/2024 14:00	7.7	60.7	0.0	7.4	11.0	4.8	11/25/2024 14:00	6.9	16.3	0.0	7.1	11.0	0.0
11/25/2024 14:15	7.4	29.9	0.0	7.5	11.0	4.7	11/25/2024 14:15	7.0	16.4	0.0	6.8	11.0	0.1
11/25/2024 14:30	7.0	23.5	0.0	7.2	11.2	4.8	11/25/2024 14:30	7.0	16.1	0.0	7.0	11.0	0.0
11/25/2024 14:45	7.0	22.4	0.0	7.1	11.2	4.9	11/25/2024 14:45	7.0	16.1	0.0	7.1	11.0	0.0
11/25/2024 15:00	6.9	23.2	0.0	7.0	11.2	4.8	11/25/2024 15:00	7.0	16.0	0.0	7.0	11.0	0.0
11/25/2024 15:15	7.6	60.0	0.0	7.2	11.0	4.6	11/25/2024 15:15	7.0	16.1	0.0	7.0	11.0	0.0
11/25/2024 15:30	7.7	58.6	0.0	7.4	11.0	4.6	11/25/2024 15:30	7.0	15.9	0.0	6.9	11.0	0.0
11/25/2024 15:45	7.0	23.7	0.0	7.3	11.1	4.8	11/25/2024 15:45	7.0	16.0	0.0	7.0	11.0	0.1
11/25/2024 16:00	7.0	22.9	0.0	7.1	11.2	4.7	11/25/2024 16:00	7.0	15.9	0.0	7.0	11.0	0.0
11/25/2024 16:15	7.0	28.9	0.0	7.0	11.2	4.8	11/25/2024 16:15	7.0	15.9	0.0	6.9	11.0	0.0
11/25/2024 16:30	7.7	61.1	0.0	7.4	11.0	4.6	11/25/2024 16:30	6.9	16.0	0.0	7.0	11.0	0.0
11/25/2024 16:45	7.7	61.6	0.0	7.4	11.0	9.0	11/25/2024 16:45	6.9	15.9	0.0	7.0	11.0	0.0
11/25/2024 17:00	7.4	40.2	0.0	7.5	11.0	4.9	11/25/2024 17:00	6.9	15.9	0.0	7.0	11.0	0.0
11/25/2024 17:15	6.9	23.9	0.0	7.2	11.2	4.7	11/25/2024 17:15	6.8	15.8	0.0	7.0	11.0	0.1
11/25/2024 17:30	6.8	22.8	0.0	7.1	11.2	4.9	11/25/2024 17:30	6.8	15.9	0.0	7.0	11.0	0.0
11/25/2024 17:45	6.7	22.4	0.0	7.0	11.3	4.7	11/25/2024 17:45	6.7	15.9	0.0	7.0	11.0	0.1
11/25/2024 18:00	6.6	22.1	0.0	6.9	11.3	4.8	11/25/2024 18:00	6.7	15.8	0.0	7.0	11.0	0.0
11/25/2024 18:15	6.6	22.6	0.0	6.9	11.3	5.0	11/25/2024 18:15	6.7	15.8	0.0	7.0	11.1	0.0
11/25/2024 18:30	6.9	46.9	0.0	6.9	11.3	5.1	11/25/2024 18:30	6.6	15.9	0.0	6.9	11.1	0.0
11/25/2024 18:45	7.4	62.6	0.0	7.3	11.1	4.6	11/25/2024 18:45	6.6	16.0	0.0	7.0	11.1	0.0
11/25/2024 19:00	6.8	26.0	0.0	7.4	11.2	4.8	11/25/2024 19:00	6.6	16.1	0.0	7.0	11.1	0.0
11/25/2024 19:15	6.6	23.2	0.0	7.1	11.3	5.1	11/25/2024 19:15	6.5	15.9	0.0	7.0	11.1	0.0
11/25/2024 19:30	6.5	23.5	0.0	7.0	11.3	4.8	11/25/2024 19:30	6.5	15.9	0.0	6.9	11.1	0.0
11/25/2024 19:45	7.2	62.3	0.0	7.2	11.1	4.7	11/25/2024 19:45	6.5	16.1	0.0	6.7	11.1	0.0
11/25/2024 20:00	7.3	63.5	0.0	7.4	11.1	4.7	11/25/2024 20:00	6.5	15.9	0.0	7.0	11.1	0.0
11/25/2024 20:15	7.3	63.7	0.0	7.5	11.1	4.8	11/25/2024 20:15	6.4	15.8	0.0	7.0	11.1	0.0
11/25/2024 20:30	7.3	63.9	0.0	7.5	11.1	5.0	11/25/2024 20:30	6.4	15.9	0.0	7.0	11.1	0.0
11/25/2024 2													

11/26/2024 0:15	6.7	55.2	0.0	7.4	11.3	4.6	11/26/2024 0:15	6.1	15.5	0.0	7.0	11.3	0.0
11/26/2024 0:30	6.7	50.0	0.0	7.4	11.2	5.1	11/26/2024 0:30	6.0	15.3	0.0	6.8	11.2	0.0
11/26/2024 0:45	6.1	25.1	0.0	7.3	11.5	4.7	11/26/2024 0:45	6.0	15.4	0.0	7.0	11.3	0.0
11/26/2024 1:00	6.0	23.3	0.0	7.1	11.5	5.1	11/26/2024 1:00	6.0	15.3	0.0	6.9	11.3	0.0
11/26/2024 1:15	5.9	22.1	0.0	7.0	11.5	4.8	11/26/2024 1:15	6.0	15.3	0.0	7.0	11.3	0.0
11/26/2024 1:30	5.9	21.7	0.0	7.0	11.5	5.0	11/26/2024 1:30	6.0	15.2	0.0	7.0	11.3	0.2
11/26/2024 1:45	5.8	21.4	0.0	6.9	11.5	4.7	11/26/2024 1:45	5.9	15.2	0.0	6.8	11.3	0.0
11/26/2024 2:00	5.8	21.3	0.0	7.0	11.5	4.6	11/26/2024 2:00	5.9	14.8	0.0	7.0	11.3	0.0
11/26/2024 2:15	5.8	21.7	0.0	6.9	11.5	4.6	11/26/2024 2:15	5.9	15.1	0.0	7.0	11.3	0.0
11/26/2024 2:30	6.0	48.4	0.0	6.9	11.5	5.0	11/26/2024 2:30	5.9	15.1	0.0	7.0	11.3	0.0
11/26/2024 2:45	6.6	63.3	0.0	7.3	11.3	5.4	11/26/2024 2:45	5.9	15.0	0.0	7.0	11.3	0.0
11/26/2024 3:00	6.7	63.7	0.0	7.4	11.3	4.6	11/26/2024 3:00	5.9	15.0	0.0	6.9	11.3	0.0
11/26/2024 3:15	6.7	63.8	0.0	7.5	11.3	4.7	11/26/2024 3:15	5.9	14.9	0.0	7.0	11.3	0.0
11/26/2024 3:30	6.2	34.0	0.0	7.6	11.3	4.6	11/26/2024 3:30	5.8	14.8	0.0	7.0	11.3	0.0
11/26/2024 3:45	5.8	23.1	0.0	7.3	11.5	4.6	11/26/2024 3:45	5.8	14.8	0.0	7.0	11.3	0.0
11/26/2024 4:00	5.7	21.6	0.0	7.1	11.6	4.6	11/26/2024 4:00	5.8	14.8	0.0	7.0	11.3	0.0
11/26/2024 4:15	5.7	21.3	0.0	7.0	11.6	4.8	11/26/2024 4:15	5.8	14.8	0.0	7.0	11.3	0.0
11/26/2024 4:30	5.8	40.3	0.0	6.9	11.6	4.8	11/26/2024 4:30	5.7	14.8	0.0	7.0	11.3	0.0
11/26/2024 4:45	6.4	63.0	0.0	7.3	11.4	5.3	11/26/2024 4:45	5.7	14.8	0.0	7.0	11.4	0.0
11/26/2024 5:00	6.6	63.7	0.0	7.4	11.3	4.5	11/26/2024 5:00	5.7	14.8	0.0	7.0	11.3	0.0
11/26/2024 5:15	6.0	27.4	0.0	7.5	11.4	4.8	11/26/2024 5:15	5.7	14.7	0.0	7.0	11.4	0.0
11/26/2024 5:30	5.7	22.3	0.0	7.2	11.6	4.6	11/26/2024 5:30	5.7	14.4	0.0	7.0	11.4	0.1
11/26/2024 5:45	6.1	50.5	0.0	7.1	11.5	4.7	11/26/2024 5:45	5.7	14.6	0.0	7.0	11.4	0.1
11/26/2024 6:00	6.3	54.5	0.0	7.3	11.4	5.1	11/26/2024 6:00	5.6	14.2	0.0	6.9	11.4	0.0
11/26/2024 6:15	5.8	26.9	0.0	7.4	11.5	4.9	11/26/2024 6:15	5.6	14.3	0.0	7.0	11.4	0.0
11/26/2024 6:30	5.6	23.4	0.0	7.2	11.6	4.8	11/26/2024 6:30	5.6	14.3	0.0	7.0	11.4	0.0
11/26/2024 6:45	5.5	22.0	0.0	7.1	11.6	4.7	11/26/2024 6:45	5.6	14.2	0.0	7.0	11.4	0.0
11/26/2024 7:00	5.9	53.0	0.0	7.0	11.6	4.9	11/26/2024 7:00	5.6	14.2	0.0	6.9	11.4	0.1
11/26/2024 7:15	5.5	22.0	0.0	7.1	11.6	4.6	11/26/2024 7:15	5.6	14.3	0.0	7.0	11.4	0.0
11/26/2024 7:30	5.4	21.0	0.0	7.0	11.7	4.8	11/26/2024 7:30	5.5	14.0	0.0	7.0	11.4	0.0
11/26/2024 7:45	5.4	20.7	0.0	6.9	11.7	4.6	11/26/2024 7:45	5.5	14.0	0.0	7.0	11.4	0.0
11/26/2024 8:00	5.3	20.5	0.0	6.9	11.7	4.5	11/26/2024 8:00	5.5	14.2	0.0	7.0	11.4	0.0
11/26/2024 8:15	5.3	20.5	0.0	6.8	11.7	4.6	11/26/2024 8:15	5.5	14.2	0.0	7.0	11.4	0.0
11/26/2024 8:30	5.3	21.2	0.0	6.9	11.7	5.6	11/26/2024 8:30	5.5	14.2	0.0	7.0	11.4	0.0
11/26/2024 8:45	6.0	62.4	0.0	7.1	11.5	4.9	11/26/2024 8:45	5.5	13.9	0.0	7.0	11.4	0.0
11/26/2024 9:00	6.3	63.7	0.0	7.4	11.4	5.1	11/26/2024 9:00	5.5	14.0	0.0	6.8	11.5	0.0
11/26/2024 9:15	6.4	64.0	0.0	7.4	11.4	4.7	11/26/2024 9:15	5.5	14.1	0.0	7.0	11.5	0.0
11/26/2024 9:30	6.4	63.9	0.0	7.5	11.4	5.0	11/26/2024 9:30	5.5	14.1	0.0	7.0	11.5	0.0
11/26/2024 9:45	5.6	24.4	0.0	7.4	11.6	4.8	11/26/2024 9:45	5.5	14.1	0.0	6.9	11.5	0.0
11/26/2024 10:00	5.4	21.9	0.0	7.2	11.7	4.8	11/26/2024 10:00	5.5	14.0	0.0	7.0	11.5	0.0
11/26/2024 10:15	5.4	21.2	0.0	7.1	11.7	4.6	11/26/2024 10:15	5.5	14.1	0.0	7.0	11.5	0.0
11/26/2024 10:30	5.4	20.7	0.0	7.0	11.7	4.8	11/26/2024 10:30	5.5	14.1	0.0	7.0	11.5	0.0
11/26/2024 10:45	5.4	20.5	0.0	7.0	11.7	4.8	11/26/2024 10:45	5.6	14.3	0.0	7.0	11.5	0.0
11/26/2024 11:00	5.4	20.4	0.0	6.9	11.7	4.8	11/26/2024 11:00	5.6	14.4	0.0	7.0	11.5	0.0
11/26/2024 11:15	5.4	20.6	0.0	6.9	11.7	4.6	11/26/2024 11:15	5.6	14.5	0.0	7.0	11.5	0.0
11/26/2024 11:30	5.7	45.4	0.0	6.8	11.7	4.8	11/26/2024 11:30	5.6	14.6	0.0	6.9	11.5	0.0
11/26/2024 11:45	6.5	64.0	0.0	7.3	11.4	4.6	11/26/2024 11:45	5.7	14.8	0.0	7.0	11.5	0.0
11/26/2024 12:00	6.5	63.4	0.0	7.4	11.4	5.0	11/26/2024 12:00	5.7	15.0	0.0	7.0	11.4	0.0
11/26/2024 12:15	6.7	65.0	0.0	7.5	11.4	5.5	11/26/2024 12:15	5.7	15.1	0.0	7.0	11.4	0.0
11/26/2024 12:30	6.7	64.2	0.0	7.5	11.3	3.2	11/26/2024 12:30	5.8	15.0	0.0	6.9	11.4	0.0
11/26/2024 12:45	6.2	29.7	0.0	7.6	11.5	3.4	11/26/2024 12:45	5.8	15.1	0.0	7.0	11.4	0.0
11/26/2024 13:00	6.7	63.5	0.0	7.5	11.4	3.3	11/26/2024 13:00	5.8	15.2	0.0	7.0	11.4	0.0
11/26/2024 13:15	6.1	25.6	0.0	7.5	11.5	3.1	11/26/2024 13:15	5.8	15.2	0.0	7.0	11.4	0.0
11/26/2024 13:30	5.9	22.7	0.0	7.2	11.6	3.1	11/26/2024 13:30	5.9	15.2	0.0	6.8	11.4	0.0
11/26/2024 13:45	5.8	21.9	0.0	7.1	11.6	3.0	11/26/2024 13:45	5.9	15.3	0.0	6.9	11.4	0.0
11/26/2024 14:00	5.8	21.4	0.0	7.0	11.6	3.1	11/26/2024 14:00	5.9	15.2	0.0	7.0	11.4	0.0
11/26/2024 14:15							11/26/2024 14:15	5.9	15.2	0.0	6.9	11.4	0.0
11/26/2024 14:30	6.0	22.7	0.0	5.9	11.5	6.0	11/26/2024 14:30	5.9	15.2	0.0	7.0	11.4	0.0
11/26/2024 14:45	6.5	0.1	0.0	7.0	11.3	3.2	11/26/2024 14:45	6.0	14.5	0.0	7.0	11.3	0.0
11/26/2024 15:00							11/26/2024 15:00	6.0	15.5	0.0	7.0	11.4	0.0
11/26/2024 15:15		0.0	0.0				11/26/2024 15:15	6.0	17.0	0.0	7.1	11.3	0.3
11/26/2024 15:30	6.9	64.4	0.0	7.1	11.3	3.2	11/26/2024 15:30	6.0	15.2	0.0	7.0	11.3	0.2
11/26/2024 15:45	7.0	64.8	0.0	7.2	11.3	4.5	11/26/2024 15:45	6.0	15.2	0.0	7.0	11.3	0.0
11/26/2024 16:00	6.6	52.7	0.0	7.2	11.3	3.4	11/26/2024 16:00	6.0	14.6	0.0	7.0	11.3	0.0
11/26/2024 16:15	6.2	38.3	0.0	7.1	11.4	3.8	11/26/2024 16:15	6.0	15.2	0.0	7.0	11.3	0.0
11/26/2024 16:30	6.0	28.1	0.0	7.0	11.5	3.2	11/26/2024 16:30	6.0	15.5	0.0	7.0	11.3	0.0
11/26/2024 16:45	5.9	24.7	0.0	6.9	11.5	3.1	11/26/2024 16:45	6.0	15.4	0.0	7.0	11.3	0.0
11/26/2024 17:00	5.9	23.5	0.0	6.8	11.5	3.0	11/26/2024 17:00	6.0	15.3	0.0	6.9	11.3	0.0
11/26/2024 17:15	5.8	23.8	0.0	6.8	11.5	3.1	11/26/2024 17:15	6.0	15.2	0.0	7.0	11.3	0.0
11/26/2024 17:30	5.8	25.3	0.0	6.7	11.6	3.0	11/26/2024 17:30	6.0	15.1	0.0	7.0	11.3	0.0
11/26/2024 17:45	5.8	22.9	0.0	6.7	11.6	3.1	11/26/2024 17:45	5.9	15.0	0.0	7.0	11.3	0.0
11/26/2024 18:00	6.2	51.6	0.0	6.7	11.6	3.1	11/26/2024 18:00	5.9	14.9	0.0	7.0	11.3	0.0
11/26/2024 18:15	6.7	59.3	0.0	7.1	11.4	3.0	11/26/2024 18:15	5.9	14.9	0.0	7.0	11.3	0.6
11/26/2024 18:30	6.8	64.7	0.0	7.1	11.3	3.0	11/26/2024 18:30	5.9	14.8	0.0	7.0	11.3	0.0
11/26/2024 18:45	6.7	62.6	0.0	7.2	11.2	2.8	11/26/2024 18:45	5.9	14.8	0.0	6.9	11.4	0.0
11/26/2024 19:00	6.0	30.6	0.0	7.1	11.4	3.0	11/26/2024 19:00	5.9	14.8	0.0	7.0	11.4	0.0
11/26/2024 19:15	6.4	45.9	0.0	6.9	11.5	3.8	11/26/2024 19:15	5.9	14.7	0.0	7.0	11.4	0.0
11/26/2024 19:30	6.0	31.8	0.0	7.1	11.4	3.0	11/26/2024 19:30	5.9	14.7	0.0	7.0	11.4	0.0
11/26/2024 19:45	5.8	28.6	0.0	7.0	11.5	3.0	11/26/2024 19:45	5.9	14.7	0.0	6.9	11.4	0.0
11/26/2024 20:00	5.8	24.0	0.0	6.8	11.6	3.0	11/26/2024 20:00	5.9	14.7	0.0	7.0	11.4	0.8
11/26/2024 20:15	5.7	23.2	0.0	6.8	11.6	2.9	11/26/2024 20:15	5.9	14.6	0.0	7.0	11.4	0.0
11/26/2024 20:30	6.1	42.9	0.0	6.8	11.6	3.1	11/26/2024 20:30	5.9	14.6	0.0	7.0	11.4	0.0
11/26/2024 20:45	6.7	62.3	0.0	7.2	11.4	3.0	11/26/2024 20:45	5.9	14.6	0.0	7.0	11.4	0.0
11/26/2024 21:00	6.8	64.7	0.0	7.3	11.3	3.0	11/26/2024 21:00	5.9	14.6	0.0	6.8	11.4	0.0
11/26/2024 21:15	6.9	63.9	0.0	7.3	11.3	2.9	11/26/2024 21:15		14.6	0.0	7.0	11.4	0.0

11/27/2024 2:00	6.6	63.4	0.0	7.1	11.4	3.1	11/27/2024 2:00	5.8	14.2	0.0	7.0	11.4	0.0
11/27/2024 2:15	6.8	64.2	0.0	7.2	11.4	3.0	11/27/2024 2:15	5.8	14.2	0.0	6.9	11.4	0.0
11/27/2024 2:30	6.8	66.2	0.0	7.3	11.3	2.9	11/27/2024 2:30	5.8	14.2	0.0	6.9	11.4	0.0
11/27/2024 2:45	6.7	66.3	0.0	7.3	11.3	2.9	11/27/2024 2:45	5.8	14.2	0.0	7.0	11.4	0.0
11/27/2024 3:00	6.1	55.6	0.0	7.2	11.4	2.9	11/27/2024 3:00	5.8	14.1	0.0	7.0	11.4	0.0
11/27/2024 3:15	5.8	27.1	0.0	7.1	11.6	2.9	11/27/2024 3:15	5.8	14.1	0.0	6.9	11.4	0.0
11/27/2024 3:30	5.7	25.1	0.0	6.9	11.6	3.0	11/27/2024 3:30	5.8	14.1	0.0	7.0	11.4	0.0
11/27/2024 3:45	5.7	24.0	0.0	6.8	11.7	3.1	11/27/2024 3:45	5.8	14.2	0.0	6.9	11.4	0.0
11/27/2024 4:00	5.6	22.5	0.0	6.8	11.7	3.0	11/27/2024 4:00	5.8	14.1	0.0	6.9	11.4	0.0
11/27/2024 4:15	5.6	22.2	0.0	6.7	11.7	3.0	11/27/2024 4:15	5.8	14.1	0.0	7.0	11.4	0.0
11/27/2024 4:30	5.6	21.8	0.0	6.8	11.7	3.0	11/27/2024 4:30	5.8	14.1	0.0	6.9	11.4	0.0
11/27/2024 4:45	6.2	53.2	0.0	6.9	11.7	2.9	11/27/2024 4:45	5.8	14.1	0.0	7.0	11.4	0.0
11/27/2024 5:00	6.3	54.9	0.0	7.1	11.4	3.0	11/27/2024 5:00	5.8	14.1	0.0	6.8	11.4	0.0
11/27/2024 5:15	6.7	64.3	0.0	7.2	11.4	3.2	11/27/2024 5:15	5.8	14.0	0.0	6.9	11.4	0.0
11/27/2024 5:30	6.8	63.6	0.0	7.3	11.3	3.0	11/27/2024 5:30	5.8	14.0	0.0	6.8	11.4	0.0
11/27/2024 5:45	6.4	51.6	0.0	7.3	11.3	2.9	11/27/2024 5:45	5.8	14.0	0.0	7.0	11.4	0.0
11/27/2024 6:00	5.9	42.3	0.0	7.2	11.5	2.9	11/27/2024 6:00	5.8	14.0	0.0	7.0	11.4	0.0
11/27/2024 6:15	5.7	27.0	0.0	7.0	11.6	2.9	11/27/2024 6:15	5.8	13.9	0.0	7.0	11.4	0.0
11/27/2024 6:30	5.6	24.9	0.0	6.9	11.6	3.0	11/27/2024 6:30	5.8	13.9	0.0	6.9	11.5	0.0
11/27/2024 6:45	5.6	23.1	0.0	6.8	11.7	3.0	11/27/2024 6:45	5.8	13.9	0.0	7.0	11.4	0.0
11/27/2024 7:00	5.7	23.4	0.0	6.8	11.7	3.0	11/27/2024 7:00	5.8	13.9	0.0	6.9	11.5	0.0
11/27/2024 7:15	6.6	63.6	0.0	7.1	11.4	4.9	11/27/2024 7:15	5.7	13.9	0.0	7.0	11.4	0.0
11/27/2024 7:30	6.7	65.2	0.0	7.2	11.4	3.0	11/27/2024 7:30	5.7	13.9	0.0	6.9	11.5	0.0
11/27/2024 7:45	6.8	66.8	0.0	7.3	11.3	3.2	11/27/2024 7:45	5.7	13.9	0.0	6.9	11.4	0.0
11/27/2024 8:00	6.6	67.0	0.0	7.3	11.3	2.8	11/27/2024 8:00	5.7	13.9	0.0	6.9	11.4	0.0
11/27/2024 8:15	6.0	56.1	0.0	7.3	11.5	2.8	11/27/2024 8:15	5.7	13.9	0.0	6.9	11.4	0.0
11/27/2024 8:30	5.7	33.3	0.0	7.1	11.6	2.9	11/27/2024 8:30	5.7	13.9	0.0	6.9	11.4	0.0
11/27/2024 8:45	5.6	26.0	0.0	7.0	11.7	2.9	11/27/2024 8:45	5.7	13.9	0.0	7.0	11.5	0.0
11/27/2024 9:00	5.6	23.2	0.0	6.9	11.7	2.9	11/27/2024 9:00	5.7	13.9	0.0	7.0	11.4	0.0
11/27/2024 9:15	5.5	23.1	0.0	6.8	11.7	2.9	11/27/2024 9:15	5.7	13.8	0.0	6.9	11.5	0.0
11/27/2024 9:30	5.5	21.9	0.0	6.8	11.7	2.9	11/27/2024 9:30	5.7	13.8	0.0	6.8	11.5	0.0
11/27/2024 9:45	5.5	23.2	0.0	6.7	11.7	2.9	11/27/2024 9:45	5.7	13.8	0.0	7.0	11.5	0.0
11/27/2024 10:00	6.2	43.9	0.0	6.8	11.7	3.0	11/27/2024 10:00	5.7	13.8	0.0	6.9	11.5	0.0
11/27/2024 10:15	6.6	65.3	0.0	7.2	11.4	3.0	11/27/2024 10:15	5.8	13.8	0.0	7.0	11.5	0.0
11/27/2024 10:30	6.4	64.9	0.0	7.2	11.4	2.8	11/27/2024 10:30	5.8	13.8	0.0	7.0	11.5	0.0
11/27/2024 10:45	5.9	34.4	0.0	7.1	11.5	2.9	11/27/2024 10:45	5.8	13.7	0.0	7.0	11.5	0.0
11/27/2024 11:00	5.7	29.7	0.0	7.0	11.6	2.9	11/27/2024 11:00	5.8	13.8	0.0	7.0	11.5	0.0
11/27/2024 11:15	5.7	23.7	0.0	6.9	11.7	3.0	11/27/2024 11:15	5.9	13.8	0.0	7.0	11.5	0.0
11/27/2024 11:30	5.8	23.0	0.0	6.8	11.7	3.1	11/27/2024 11:30	5.9	13.8	0.0	6.8	11.5	0.0
11/27/2024 11:45	6.1	43.3	0.0	7.0	11.6	2.9	11/27/2024 11:45	5.9	13.8	0.0	7.0	11.5	0.0
11/27/2024 12:00	5.9	36.0	0.0	7.0	11.6	2.9	11/27/2024 12:00	6.0	13.7	0.0	7.0	11.5	0.0
11/27/2024 12:15	5.8	23.7	0.0	6.9	11.6	3.0	11/27/2024 12:15	6.0	13.7	0.0	7.0	11.4	0.0
11/27/2024 12:30	6.6	48.8	0.0	7.1	11.6	3.1	11/27/2024 12:30	6.0	13.7	0.0	7.0	11.4	0.0
11/27/2024 12:45	6.9	64.8	0.0	7.2	11.3	3.0	11/27/2024 12:45	6.1	13.6	0.0	6.9	11.4	0.0
11/27/2024 13:00	7.0	63.9	0.0	7.3	11.3	3.0	11/27/2024 13:00	6.1	13.6	0.0	7.0	11.4	0.0
11/27/2024 13:15	7.1	66.3	0.0	7.3	11.3	2.9	11/27/2024 13:15	6.1	13.7	0.0	7.0	11.4	0.0
11/27/2024 13:30	6.5	57.9	0.0	7.3	11.3	2.9	11/27/2024 13:30	6.2	13.7	0.0	7.0	11.4	0.0
11/27/2024 13:45	6.2	28.5	0.0	7.1	11.5	2.9	11/27/2024 13:45	6.2	13.4	0.0	7.0	11.4	0.0
11/27/2024 14:00	6.1	27.7	0.0	7.0	11.5	2.9	11/27/2024 14:00	6.2	13.4	0.0	7.0	11.4	0.0
11/27/2024 14:15	6.1	23.2	0.0	6.9	11.6	3.0	11/27/2024 14:15	6.2	13.4	0.0	7.0	11.4	0.0
11/27/2024 14:30	6.3	24.7	0.0	6.8	11.6	3.1	11/27/2024 14:30	6.2	13.4	0.0	7.0	11.4	0.0
11/27/2024 14:45	7.0	63.8	0.0	7.2	11.3	3.1	11/27/2024 14:45	6.2	13.7	0.0	7.0	11.3	0.0
11/27/2024 15:00	7.1	65.0	0.0	7.3	11.3	3.0	11/27/2024 15:00	6.2	13.5	0.0	7.0	11.4	0.0
11/27/2024 15:15	7.2	67.4	0.0	7.3	11.2	2.9	11/27/2024 15:15	6.2	13.5	0.0	6.9	11.3	0.0
11/27/2024 15:30	6.6	64.0	0.0	7.3	11.2	2.8	11/27/2024 15:30	6.3	13.6	0.0	6.9	11.4	0.0
11/27/2024 15:45	6.3	31.5	0.0	7.1	11.4	3.0	11/27/2024 15:45	6.3	13.4	0.0	7.0	11.3	0.0
11/27/2024 16:00	6.2	29.9	0.0	7.1	11.5	2.9	11/27/2024 16:00	6.3	13.5	0.0	6.9	11.3	0.0
11/27/2024 16:15	6.1	22.9	0.0	6.9	11.5	3.0	11/27/2024 16:15	6.3	13.4	0.0	7.0	11.3	0.0
11/27/2024 16:30	6.1	22.9	0.0	6.9	11.5	3.0	11/27/2024 16:30	6.3	13.3	0.0	7.0	11.3	0.0
11/27/2024 16:45	6.1	28.0	0.0	6.8	11.5	3.0	11/27/2024 16:45	6.3	13.4	0.0	7.0	11.3	0.0
11/27/2024 17:00	7.0	57.8	0.0	6.9	11.3	3.0	11/27/2024 17:00	6.3	13.7	0.0	7.0	11.3	0.0
11/27/2024 17:15	6.8	59.3	0.0	7.2	11.3	2.9	11/27/2024 17:15	6.3	13.5	0.0	7.0	11.3	0.0
11/27/2024 17:30	6.3	50.5	0.0	7.2	11.4	2.8	11/27/2024 17:30	6.2	13.5	0.0	6.9	11.3	0.0
11/27/2024 17:45	6.1	27.0	0.0	7.0	11.5	2.9	11/27/2024 17:45	6.2	13.5	0.0	6.9	11.3	0.4
11/27/2024 18:00	6.8	49.4	0.0	7.1	11.5	3.0	11/27/2024 18:00	6.2	13.4	0.0	7.0	11.3	0.0
11/27/2024 18:15	7.1	66.5	0.0	7.3	11.3	2.9	11/27/2024 18:15	6.2	13.6	0.0	7.0	11.3	0.0
11/27/2024 18:30	7.2	66.0	0.0	7.3	11.2	3.0	11/27/2024 18:30	6.2	13.5	0.0	7.0	11.3	0.0
11/27/2024 18:45	6.9	64.6	0.0	7.3	11.2	2.9	11/27/2024 18:45	6.2	13.6	0.0	7.0	11.3	0.0
11/27/2024 19:00	6.4	56.7	0.0	7.3	11.3	2.9	11/27/2024 19:00	6.2	13.7	0.0	6.9	11.3	0.0
11/27/2024 19:15	6.1	28.7	0.0	7.1	11.5	3.0	11/27/2024 19:15	6.2	13.4	0.0	7.0	11.3	0.0
11/27/2024 19:30	6.0	27.3	0.0	7.0	11.5	2.9	11/27/2024 19:30	6.2	13.5	0.0	6.9	11.3	0.0
11/27/2024 19:45	6.0	22.9	0.0	6.9	11.6	3.0	11/27/2024 19:45	6.2	13.5	0.0	6.9	11.3	0.0
11/27/2024 20:00	6.0	22.4	0.0	6.9	11.6	3.0	11/27/2024 20:00	6.2	13.6	0.0	7.0	11.3	0.0
11/27/2024 20:15	6.7	57.3	0.0	6.9	11.5	3.0	11/27/2024 20:15	6.1	13.5	0.0	7.0	11.3	0.0
11/27/2024 20:30	7.0	64.4	0.0	7.2	11.3	3.0	11/27/2024 20:30	6.1	13.6	0.0	7.0	11.3	0.0
11/27/2024 20:45	7.1	67.4	0.0	7.3	11.2	3.0	11/27/2024 20:45	6.1	13.4	0.0	7.0	11.3	0.2
11/27/2024 21:00	7.1	67.8	0.0	7.3	11.3	2.9	11/27/2024 21:00	6.1	13.6	0.0	7.0	11.3	0.0
11/27/2024 21:15	6.5	50.3	0.0	7.3	11.3	2.9	11/27/2024 21:15	6.1	13.5	0.0	7.0	11.3	0.0
11/27/2024 21:30	6.1	44.6	0.0	7.2	11.5	2.9	11/27/2024 21:30	6.1	13.6	0.0	7.0	11.4	0.0
11/27/2024 21:45	6.0	27.2	0.0	7.0	11.5	3.0	11/27/2024 21:45	6.1	13.4	0.0	7.0	11.4	0.0
11/27/2024 22:00	5.9	25.3	0.0	7.0	11.6	3.0	11/27/2024 22:00	6.0	13.6	0.0	7.0	11.4	0.0
11/27/2024 22:15	6.3	43.4	0.0	6.8	11.6	3.1	11/27/2024 22:15	6.0	13.4	0.0	7.0	11.4	0.0
11/27/2024 22:30	6.8	64.2	0.0	7.2	11.4	3.0	11/27/2024 22:30	6.0	13.3	0.0	7.0	11.4	0.0
11/27/2024 22:45	6.9	67.3	0.0	7.3	11.3	2.9	11/27/2024 22:45	6.0	13.5	0.0	7.0	11.4	0.0
11/27/2024 23:00	6.4	64.3	0.0	7.3	11.								

11/28/2024 3:45	5.6	22.6	0.0	6.8	11.7	3.0	11/28/2024 3:45	5.8	13.5	0.0	7.0	11.5	0.0
11/28/2024 4:00	5.5	22.1	0.0	6.9	11.7	2.9	11/28/2024 4:00	5.7	13.4	0.0	7.0	11.4	0.0
11/28/2024 4:15	5.5	26.6	0.0	6.7	11.7	3.0	11/28/2024 4:15	5.7	13.4	0.0	7.0	11.5	0.0
11/28/2024 4:30	6.4	55.8	0.0	7.1	11.6	3.4	11/28/2024 4:30	5.7	13.3	0.0	6.9	11.5	0.0
11/28/2024 4:45	6.6	67.6	0.0	7.2	11.4	3.0	11/28/2024 4:45	5.7	13.4	0.0	7.0	11.5	0.0
11/28/2024 5:00	6.7	67.1	0.0	7.3	11.4	3.0	11/28/2024 5:00	5.6	13.4	0.0	7.0	11.5	0.0
11/28/2024 5:15	6.7	68.9	0.0	7.3	11.4	2.9	11/28/2024 5:15	5.6	13.4	0.0	7.0	11.5	0.0
11/28/2024 5:30	6.2	67.7	0.0	7.4	11.3	2.9	11/28/2024 5:30	5.6	13.3	0.0	7.0	11.5	0.0
11/28/2024 5:45	5.7	33.1	0.0	7.2	11.6	2.9	11/28/2024 5:45	5.6	13.2	0.0	7.0	11.5	1.0
11/28/2024 6:00	5.5	31.9	0.0	7.1	11.6	3.0	11/28/2024 6:00	5.5	13.2	0.0	6.8	11.5	0.0
11/28/2024 6:15	5.4	24.6	0.0	7.0	11.7	3.0	11/28/2024 6:15	5.5	13.2	0.0	7.0	11.5	0.0
11/28/2024 6:30	5.3	23.7	0.0	7.0	11.7	3.0	11/28/2024 6:30	5.5	13.2	0.0	7.0	11.5	0.0
11/28/2024 6:45	5.3	22.4	0.0	6.8	11.8	3.0	11/28/2024 6:45	5.5	13.3	0.0	7.0	11.5	0.0
11/28/2024 7:00	5.2	21.7	0.0	6.9	11.8	2.9	11/28/2024 7:00	5.5	13.3	0.0	6.8	11.5	0.0
11/28/2024 7:15	5.2	22.6	0.0	6.7	11.8	3.0	11/28/2024 7:15	5.4	13.2	0.0	6.9	11.5	0.0
11/28/2024 7:30	6.0	47.7	0.0	7.0	11.8	3.0	11/28/2024 7:30	5.4	13.2	0.0	6.9	11.5	0.0
11/28/2024 7:45	6.4	67.8	0.0	7.2	11.5	3.4	11/28/2024 7:45	5.4	13.1	0.0	6.9	11.5	3.9
11/28/2024 8:00	6.5	68.2	0.0	7.3	11.4	3.0	11/28/2024 8:00	5.4	13.2	0.0	7.0	11.5	0.0
11/28/2024 8:15	6.5	69.6	0.0	7.3	11.4	3.0	11/28/2024 8:15	5.4	13.0	0.0	7.0	11.5	0.0
11/28/2024 8:30	6.0	67.8	0.0	7.4	11.4	2.9	11/28/2024 8:30	5.4	12.9	0.0	7.0	11.5	0.0
11/28/2024 8:45	5.5	33.8	0.0	7.2	11.6	2.9	11/28/2024 8:45	5.3	13.1	0.0	6.9	11.6	0.0
11/28/2024 9:00	5.3	33.5	0.0	7.1	11.7	2.9	11/28/2024 9:00	5.3	12.9	0.0	7.0	11.6	0.0
11/28/2024 9:15	5.2	24.8	0.0	7.0	11.8	3.0	11/28/2024 9:15	5.3	13.1	0.0	6.9	11.6	0.0
11/28/2024 9:30	5.1	24.1	0.0	7.0	11.8	3.0	11/28/2024 9:30	5.3	13.1	0.0	7.0	11.6	0.0
11/28/2024 9:45	5.1	22.2	0.0	6.8	11.8	3.0	11/28/2024 9:45	5.3	12.8	0.0	6.9	11.6	0.0
11/28/2024 10:00	5.1	21.8	0.0	6.9	11.8	3.0	11/28/2024 10:00	5.3	13.1	0.0	7.0	11.6	0.0
11/28/2024 10:15	5.7	49.9	0.0	6.8	11.8	3.0	11/28/2024 10:15	5.4	12.9	0.0	7.0	11.6	0.0
11/28/2024 10:30	6.3	65.8	0.0	7.3	11.6	3.0	11/28/2024 10:30	5.4	12.8	0.0	7.0	11.6	0.0
11/28/2024 10:45	6.5	68.9	0.0	7.3	11.5	3.0	11/28/2024 10:45	5.5	13.0	0.0	6.9	11.6	0.0
11/28/2024 11:00	6.5	69.3	0.0	7.3	11.4	2.9	11/28/2024 11:00	5.5	12.8	0.0	7.0	11.5	0.0
11/28/2024 11:15	5.9	47.8	0.0	7.3	11.5	2.9	11/28/2024 11:15	5.5	13.0	0.0	7.0	11.6	0.0
11/28/2024 11:30	5.6	46.0	0.0	7.2	11.6	2.9	11/28/2024 11:30	5.5	12.9	0.0	7.0	11.6	0.0
11/28/2024 11:45	5.4	26.4	0.0	7.1	11.7	2.9	11/28/2024 11:45	5.6	13.2	0.0	6.8	11.5	0.0
11/28/2024 12:00	5.4	25.5	0.0	7.1	11.7	2.9	11/28/2024 12:00	5.6	13.1	0.0	6.9	11.5	0.0
11/28/2024 12:15	5.4	23.0	0.0	6.9	11.7	2.9	11/28/2024 12:15	5.6	13.3	0.0	7.0	11.5	0.0
11/28/2024 12:30	5.4	22.1	0.0	6.9	11.7	2.9	11/28/2024 12:30	5.7	13.3	0.0	6.9	11.5	0.0
11/28/2024 12:45	6.3	60.4	0.0	6.9	11.6	3.0	11/28/2024 12:45	5.7	13.3	0.0	6.9	11.5	0.0
11/28/2024 13:00	6.6	67.0	0.0	7.2	11.4	2.9	11/28/2024 13:00	5.7	13.3	0.0	7.0	11.5	0.0
11/28/2024 13:15	6.1	50.4	0.0	7.3	11.4	3.1	11/28/2024 13:15	5.8	13.4	0.0	6.9	11.5	0.0
11/28/2024 13:30	5.8	44.9	0.0	7.2	11.5	2.9	11/28/2024 13:30	5.8	13.1	0.0	7.1	11.5	0.0
11/28/2024 13:45	5.7	26.2	0.0	7.1	11.6	3.0	11/28/2024 13:45	5.9	13.1	0.0	6.9	11.4	0.0
11/28/2024 14:00	5.9	32.8	0.0	6.9	11.6	2.9	11/28/2024 14:00	5.9	13.3	0.0	7.0	11.4	0.0
11/28/2024 14:15	5.8	30.3	0.0	7.0	11.6	2.9	11/28/2024 14:15	5.9	13.4	0.0	6.9	11.4	0.0
11/28/2024 14:30	6.4	42.7	0.0	7.1	11.6	3.1	11/28/2024 14:30	5.9	13.4	0.0	7.0	11.4	0.0
11/28/2024 14:45	6.9	66.9	0.0	7.3	11.3	3.0	11/28/2024 14:45	5.9	13.2	0.0	6.9	11.4	0.0
11/28/2024 15:00	7.0	68.7	0.0	7.3	11.3	3.0	11/28/2024 15:00	5.9	12.9	0.0	6.9	11.4	0.0
11/28/2024 15:15	7.0	69.6	0.0	7.3	11.3	2.9	11/28/2024 15:15	5.9	12.9	0.0	6.8	11.4	0.0
11/28/2024 15:30	7.0	70.3	0.0	7.4	11.2	2.9	11/28/2024 15:30	5.9	13.0	0.0	7.0	11.4	0.0
11/28/2024 15:45	6.5	53.0	0.0	7.4	11.3	2.9	11/28/2024 15:45	5.9	12.9	0.0	7.0	11.4	0.0
11/28/2024 16:00	6.1	49.8	0.0	7.3	11.4	2.9	11/28/2024 16:00	6.0	12.9	0.0	7.0	11.4	0.0
11/28/2024 16:15	5.9	26.9	0.0	7.1	11.5	2.9	11/28/2024 16:15	6.0	13.2	0.0	7.0	11.4	0.0
11/28/2024 16:30	5.8	25.5	0.0	7.1	11.6	2.9	11/28/2024 16:30	5.9	13.2	0.0	7.0	11.4	0.0
11/28/2024 16:45	5.7	22.0	0.0	6.9	11.6	2.9	11/28/2024 16:45	5.9	13.2	0.0	7.0	11.4	0.0
11/28/2024 17:00	5.7	22.4	0.0	6.9	11.6	3.0	11/28/2024 17:00	5.9	13.3	0.0	6.9	11.4	0.0
11/28/2024 17:15	5.7	22.0	0.0	6.8	11.6	3.0	11/28/2024 17:15	5.9	13.2	0.0	6.9	11.4	0.0
11/28/2024 17:30	6.3	38.2	0.0	6.7	11.6	3.1	11/28/2024 17:30	5.9	13.3	0.0	6.9	11.3	0.0
11/28/2024 17:45	6.8	67.9	0.0	7.2	11.3	2.9	11/28/2024 17:45	5.9	13.1	0.0	7.0	11.4	0.0
11/28/2024 18:00	6.9	69.2	0.0	7.3	11.3	3.0	11/28/2024 18:00	5.9	13.3	0.0	6.9	11.3	0.5
11/28/2024 18:15	6.5	58.2	0.0	7.3	11.3	2.9	11/28/2024 18:15	5.9	13.2	0.0	6.9	11.4	1.3
11/28/2024 18:30	6.0	53.8	0.0	7.3	11.4	2.8	11/28/2024 18:30	5.8	13.2	0.0	7.0	11.4	0.0
11/28/2024 18:45	5.8	27.2	0.0	7.1	11.5	3.0	11/28/2024 18:45	5.8	13.3	0.0	7.0	11.4	0.0
11/28/2024 19:00	5.7	26.4	0.0	7.1	11.6	2.9	11/28/2024 19:00	5.8	13.3	0.0	6.9	11.4	0.0
11/28/2024 19:15	5.6	22.8	0.0	6.9	11.6	2.9	11/28/2024 19:15	5.8	13.2	0.0	7.0	11.4	0.0
11/28/2024 19:30	5.8	22.8	0.0	6.8	11.6	3.1	11/28/2024 19:30	5.8	13.2	0.0	6.8	11.4	0.0
11/28/2024 19:45	6.6	65.6	0.0	7.1	11.4	3.0	11/28/2024 19:45	5.8	13.1	0.0	6.8	11.4	0.0
11/28/2024 20:00	6.8	69.1	0.0	7.3	11.3	3.0	11/28/2024 20:00	5.7	13.3	0.0	7.0	11.4	0.0
11/28/2024 20:15	6.9	70.1	0.0	7.3	11.3	3.0	11/28/2024 20:15	5.7	13.2	0.0	6.9	11.4	0.1
11/28/2024 20:30	6.7	70.3	0.0	7.4	11.3	2.9	11/28/2024 20:30	5.7	13.1	0.0	6.8	11.4	0.0
11/28/2024 20:45	6.1	39.7	0.0	7.3	11.4	3.0	11/28/2024 20:45	5.7	13.3	0.0	6.9	11.4	0.0
11/28/2024 21:00	6.7	57.6	0.0	7.3	11.4	3.0	11/28/2024 21:00	5.7	13.3	0.0	6.8	11.4	0.0
11/28/2024 21:15	6.7	68.7	0.0	7.3	11.3	2.9	11/28/2024 21:15	5.7	13.3	0.0	7.0	11.4	0.0
11/28/2024 21:30	6.1	63.5	0.0	7.4	11.3	2.9	11/28/2024 21:30	5.7	13.3	0.0	6.8	11.4	0.0
11/28/2024 21:45	6.5	65.3	0.0	7.1	11.5	3.0	11/28/2024 21:45	5.7	13.3	0.0	6.9	11.4	0.0
11/28/2024 22:00	6.8	69.2	0.0	7.3	11.3	3.0	11/28/2024 22:00	5.7	13.3	0.0	6.7	11.4	0.0
11/28/2024 22:15	6.8	70.5	0.0	7.4	11.3	2.9	11/28/2024 22:15	5.7	13.3	0.0	6.7	11.4	0.0
11/28/2024 22:30	6.2	66.5	0.0	7.4	11.3	2.9	11/28/2024 22:30	5.6	13.2	0.0	6.9	11.4	0.0
11/28/2024 22:45	5.8	34.0	0.0	7.2	11.5	2.9	11/28/2024 22:45	5.6	13.2	0.0	7.0	11.4	0.0
11/28/2024 23:00	5.6	32.2	0.0	7.1	11.6	3.0	11/28/2024 23:00	5.6	13.3	0.0	7.0	11.4	0.3
11/28/2024 23:15	6.5	61.2	0.0	7.0	11.5	2.9	11/28/2024 23:15	5.6	13.2	0.0	7.0	11.4	0.0
11/28/2024 23:30	6.7	67.8	0.0	7.4	11.3	2.9	11/28/2024 23:30	5.6	13.2	0.0	6.9	11.5	0.0
11/28/2024 23:45	6.3	64.7	0.0	7.4	11.3	2.8	11/28/2024 23:45	5.6	13.2	0.0	6.9	11.4	0.0
11/29/2024 0:00	5.8	59.9	0.0	7.3	11.4	2.8	11/29/2024 0:00	5.6	13.2	0.0	6.7	11.5	0.3
11/29/2024 0:15	5.6	33.0	0.0	7.1	11.6	2.9	11/29/2024 0:15	5.6	13.3	0.0	7.0	11.4	0.0
11/29/2024 0:30	5.6	39.8	0.0	7.1	11.6	2.9	11/29/2024 0:30	5.5	13.2	0.0	6.8	11.5	0.0
11/29/2024 0:45	5.5	34.9	0.0	7.1</									

11/29/2024 5:30	6.0	48.1	0.0	7.0	11.7	3.0	11/29/2024 5:30	5.5	13.2	0.0	6.9	11.5	0.0
11/29/2024 5:45	6.5	66.9	0.0	7.2	11.4	2.9	11/29/2024 5:45	5.5	13.2	0.0	7.0	11.5	0.0
11/29/2024 6:00	6.1	67.4	0.0	7.3	11.4	2.8	11/29/2024 6:00	5.5	13.1	0.0	6.8	11.5	0.1
11/29/2024 6:15	5.6	46.9	0.0	7.2	11.5	2.9	11/29/2024 6:15	5.5	13.0	0.0	6.9	11.5	0.0
11/29/2024 6:30	5.4	44.7	0.0	7.2	11.6	2.8	11/29/2024 6:30	5.5	13.1	0.0	7.0	11.5	0.0
11/29/2024 6:45	5.3	30.5	0.0	7.1	11.6	2.9	11/29/2024 6:45	5.5	13.1	0.0	7.0	11.5	0.0
11/29/2024 7:00	6.1	48.1	0.0	6.9	11.7	3.0	11/29/2024 7:00	5.5	13.1	0.0	7.0	11.5	0.0
11/29/2024 7:15	6.5	69.3	0.0	7.2	11.4	3.0	11/29/2024 7:15	5.5	13.1	0.0	6.8	11.5	0.0
11/29/2024 7:30	6.4	70.5	0.0	7.3	11.4	2.8	11/29/2024 7:30	5.5	13.0	0.0	7.0	11.5	0.0
11/29/2024 7:45	5.8	58.6	0.0	7.3	11.4	2.8	11/29/2024 7:45	5.5	12.9	0.0	6.9	11.5	0.0
11/29/2024 8:00	5.5	52.4	0.0	7.3	11.6	2.8	11/29/2024 8:00	5.5	13.0	0.0	6.7	11.5	0.0
11/29/2024 8:15	5.4	32.4	0.0	7.1	11.6	2.9	11/29/2024 8:15	5.5	12.9	0.0	6.8	11.5	0.0
11/29/2024 8:30	5.9	43.7	0.0	7.0	11.7	3.0	11/29/2024 8:30	5.5	13.1	0.0	7.0	11.5	0.0
11/29/2024 8:45	6.6	69.4	0.0	7.2	11.4	3.0	11/29/2024 8:45	5.5	13.1	0.0	6.8	11.5	0.0
11/29/2024 9:00	6.4	70.6	0.0	7.3	11.4	2.9	11/29/2024 9:00	5.5	13.2	0.0	6.9	11.5	1.6
11/29/2024 9:15	5.9	58.1	0.0	7.3	11.4	2.8	11/29/2024 9:15	5.5	13.0	0.0	6.8	11.5	0.0
11/29/2024 9:30	5.5	53.3	0.0	7.3	11.5	2.9	11/29/2024 9:30	5.5	13.0	0.0	6.9	11.5	0.0
11/29/2024 9:45	5.4	33.9	0.0	7.1	11.6	2.9	11/29/2024 9:45	5.5	12.9	0.0	6.7	11.5	0.0
11/29/2024 10:00	5.3	31.8	0.0	7.1	11.7	2.9	11/29/2024 10:00	5.5	13.0	0.0	6.9	11.5	0.0
11/29/2024 10:15	5.3	25.7	0.0	6.9	11.7	3.0	11/29/2024 10:15	5.5	13.1	0.0	7.0	11.5	0.0
11/29/2024 10:30	5.2	25.7	0.0	7.0	11.7	2.9	11/29/2024 10:30	5.5	13.1	0.0	6.8	11.5	0.0
11/29/2024 10:45	5.2	23.4	0.0	6.8	11.7	2.9	11/29/2024 10:45	5.5	13.0	0.0	6.9	11.5	0.0
11/29/2024 11:00	5.2	23.3	0.0	6.9	11.7	3.0	11/29/2024 11:00	5.6	13.1	0.0	7.0	11.5	0.0
11/29/2024 11:15	5.2	22.1	0.0	6.7	11.7	2.9	11/29/2024 11:15	5.6	13.0	0.0	6.8	11.5	0.0
11/29/2024 11:30	5.2	21.9	0.0	6.8	11.7	3.0	11/29/2024 11:30	5.6	12.8	0.0	7.0	11.5	0.0
11/29/2024 11:45	5.2	21.8	0.0	6.7	11.7	2.9	11/29/2024 11:45	5.6	13.0	0.0	7.0	11.5	0.0
11/29/2024 12:00	5.3	21.3	0.0	6.9	11.7	3.0	11/29/2024 12:00	5.6	13.0	0.0	7.0	11.5	0.0
11/29/2024 12:15	5.3	21.4	0.0	6.8	11.7	3.0	11/29/2024 12:15	5.6	13.0	0.0	7.0	11.5	0.0
11/29/2024 12:30	5.3	21.2	0.0	6.8	11.7	3.0	11/29/2024 12:30	5.6	13.1	0.0	6.8	11.5	0.0
11/29/2024 12:45	5.3	21.5	0.0	6.7	11.7	2.9	11/29/2024 12:45	5.6	13.1	0.0	6.8	11.5	0.0
11/29/2024 13:00	5.3	20.8	0.0	6.7	11.7	3.0	11/29/2024 13:00	5.6	12.9	0.0	6.9	11.5	0.0
11/29/2024 13:15	5.3	20.5	0.0	6.7	11.7	2.9	11/29/2024 13:15	5.7	12.9	0.0	7.0	11.5	0.0
11/29/2024 13:30	5.3	20.3	0.0	6.7	11.7	2.9	11/29/2024 13:30	5.7	13.1	0.0	6.8	11.5	0.0
11/29/2024 13:45	5.3	20.6	0.0	6.7	11.7	3.0	11/29/2024 13:45	5.7	13.0	0.0	7.0	11.5	0.0
11/29/2024 14:00	5.3	20.2	0.0	6.7	11.7	3.0	11/29/2024 14:00	5.7	13.1	0.0	7.0	11.5	0.0
11/29/2024 14:15	5.3	20.4	0.0	6.7	11.7	3.0	11/29/2024 14:15	5.7	13.0	0.0	7.0	11.5	0.0
11/29/2024 14:30	6.2	47.3	0.0	6.6	11.8	3.0	11/29/2024 14:30	5.7	13.2	0.0	7.0	11.4	0.0
11/29/2024 14:45	6.7	69.0	0.0	7.1	11.4	3.0	11/29/2024 14:45	5.8	13.1	0.0	7.0	11.4	0.0
11/29/2024 15:00	6.9	70.6	0.0	7.3	11.3	2.9	11/29/2024 15:00	5.8	13.3	0.0	7.0	11.4	0.0
11/29/2024 15:15	6.9	72.2	0.0	7.3	11.3	3.0	11/29/2024 15:15	5.8	13.3	0.0	7.0	11.4	0.0
11/29/2024 15:30	7.0	72.1	0.0	7.3	11.3	2.9	11/29/2024 15:30	5.8	13.4	0.0	6.8	11.4	0.0
11/29/2024 15:45	6.8	73.0	0.0	7.3	11.2	2.8	11/29/2024 15:45	5.8	13.4	0.0	7.0	11.4	0.0
11/29/2024 16:00	6.3	71.3	0.0	7.4	11.3	2.8	11/29/2024 16:00	5.8	13.3	0.0	7.0	11.4	0.0
11/29/2024 16:15	6.0	51.5	0.0	7.3	11.4	2.9	11/29/2024 16:15	5.8	13.2	0.0	7.0	11.4	0.0
11/29/2024 16:30	5.8	50.8	0.0	7.2	11.5	2.9	11/29/2024 16:30	5.8	13.3	0.0	6.9	11.4	0.0
11/29/2024 16:45	5.7	34.9	0.0	7.1	11.5	2.9	11/29/2024 16:45	5.8	13.2	0.0	6.9	11.4	0.0
11/29/2024 17:00	5.6	34.7	0.0	7.1	11.6	2.9	11/29/2024 17:00	5.8	13.3	0.0	7.0	11.4	0.0
11/29/2024 17:15	5.6	28.0	0.0	6.9	11.6	2.9	11/29/2024 17:15	5.8	13.4	0.0	7.0	11.4	0.0
11/29/2024 17:30	6.2	44.9	0.0	6.9	11.6	3.2	11/29/2024 17:30	5.8	13.3	0.0	7.0	11.4	0.0
11/29/2024 17:45	6.7	70.0	0.0	7.2	11.3	3.0	11/29/2024 17:45	5.8	13.5	0.0	6.8	11.4	0.0
11/29/2024 18:00	6.9	72.0	0.0	7.3	11.3	3.0	11/29/2024 18:00	5.8	13.5	0.0	6.9	11.4	0.0
11/29/2024 18:15	6.9	73.1	0.0	7.4	11.2	3.1	11/29/2024 18:15	5.9	13.6	0.0	7.0	11.4	0.0
11/29/2024 18:30	6.8	72.9	0.0	7.4	11.3	3.0	11/29/2024 18:30	5.9	13.7	0.0	6.8	11.4	0.0
11/29/2024 18:45	6.4	69.6	0.0	7.4	11.3	3.0	11/29/2024 18:45	5.9	13.6	0.0	6.9	11.4	0.0
11/29/2024 19:00	6.1	68.0	0.0	7.4	11.3	2.9	11/29/2024 19:00	5.9	13.7	0.0	6.8	11.4	0.0
11/29/2024 19:15	5.9	44.9	0.0	7.2	11.4	2.9	11/29/2024 19:15	5.9	13.6	0.0	7.0	11.4	0.0
11/29/2024 19:30	5.7	45.2	0.0	7.2	11.5	2.9	11/29/2024 19:30	5.9	13.7	0.0	6.9	11.4	0.0
11/29/2024 19:45	5.7	32.0	0.0	7.1	11.5	3.0	11/29/2024 19:45	5.9	13.9	0.0	7.0	11.4	0.0
11/29/2024 20:00	5.6	31.1	0.0	7.1	11.6	2.9	11/29/2024 20:00	5.9	13.8	0.0	7.0	11.4	0.0
11/29/2024 20:15	5.9	35.0	0.0	6.9	11.6	3.1	11/29/2024 20:15	5.9	14.1	0.0	7.0	11.4	0.0
11/29/2024 20:30	6.6	59.1	0.0	7.2	11.5	3.2	11/29/2024 20:30	5.9	14.4	0.0	7.0	11.4	0.0
11/29/2024 20:45	6.9	71.8	0.0	7.3	11.3	3.7	11/29/2024 20:45	5.9	14.8	0.0	7.0	11.4	0.1
11/29/2024 21:00	7.0	72.1	0.0	7.4	11.3	3.5	11/29/2024 21:00	5.9	16.1	0.0	6.8	11.4	0.0
11/29/2024 21:15	6.9	72.1	0.0	7.3	11.3	3.6	11/29/2024 21:15	5.9	17.3	0.0	7.1	11.4	0.0
11/29/2024 21:30	6.4	70.9	0.0	7.4	11.3	3.6	11/29/2024 21:30	5.9	18.7	0.0	7.0	11.4	0.1
11/29/2024 21:45	6.0	43.6	0.0	7.2	11.4	3.2	11/29/2024 21:45	5.9	19.4	0.0	6.9	11.4	0.0
11/29/2024 22:00	5.8	42.7	0.0	7.2	11.5	3.0	11/29/2024 22:00	5.9	20.0	0.0	7.0	11.3	0.3
11/29/2024 22:15	5.8	35.9	0.0	7.2	11.6	3.0	11/29/2024 22:15	5.9	21.1	0.0	7.1	11.4	0.1
11/29/2024 22:30	5.7	33.8	0.0	7.0	11.6	3.1	11/29/2024 22:30	5.9	22.6	0.0	7.0	11.3	0.1
11/29/2024 22:45	5.7	28.7	0.0	6.9	11.6	3.1	11/29/2024 22:45	5.9	23.6	0.0	7.1	11.4	0.1
11/29/2024 23:00	5.7	27.7	0.0	6.9	11.6	3.1	11/29/2024 23:00	6.0	23.8	0.0	7.1	11.3	0.1
11/29/2024 23:15	6.2	48.8	0.0	6.8	11.6	3.7	11/29/2024 23:15	6.0	24.2	0.0	7.0	11.4	0.1
11/29/2024 23:30	6.3	61.7	0.0	7.3	11.4	3.4	11/29/2024 23:30	6.0	23.6	0.0	7.0	11.3	0.1
11/29/2024 23:45	6.8	71.0	0.0	7.1	11.3	4.3	11/29/2024 23:45	6.0	22.7	0.0	7.0	11.3	3.4
11/30/2024 0:00	7.0	73.4	0.0	7.3	11.3	3.5	11/30/2024 0:00	6.0	22.2	0.0	7.1	11.4	0.1
11/30/2024 0:15	6.7	68.0	0.0	7.4	11.3	4.0	11/30/2024 0:15	6.0	21.9	0.0	7.0	11.3	0.1
11/30/2024 0:30	6.2	63.1	0.0	7.3	11.3	3.6	11/30/2024 0:30	6.0	21.9	0.0	7.1	11.4	0.3
11/30/2024 0:45	5.9	39.3	0.0	7.1	11.5	3.3	11/30/2024 0:45	6.0	21.6	0.0	7.1	11.3	0.1
11/30/2024 1:00	6.1	38.6	0.0	7.0	11.6	3.4	11/30/2024 1:00	6.0	21.0	0.0	7.1	11.3	0.1
11/30/2024 1:15	6.8	71.8	0.0	7.2	11.3	3.4	11/30/2024 1:15	6.0	21.1	0.0	7.0	11.3	0.1
11/30/2024 1:30	6.9	74.2	0.0	7.3	11.3	3.4	11/30/2024 1:30	6.0	20.7	0.0	7.1	11.4	0.1
11/30/2024 1:45	7.0	74.9	0.0	7.4	11.2	3.3	11/30/2024 1:45	6.0	20.7	0.0	7.1	11.3	0.1
11/30/2024 2:00	7.0	75.7	0.0	7.4	11.2	3.2	11/30/2024 2:00	6.0	20.4	0.0	7.0	11.3	0.0
11/30/2024 2:15	6.7	70.2	0.0	7.4	11.3	3.2	11/30/2024 2:15	6.0	20.2	0.0	7.0	11.3	0.1
11/30/2024 2:30	6.2	66.2	0.0	7.3</									

11/30/2024 7:15	7.0	73.4	0.0	7.2	11.3	3.3	11/30/2024 7:15	6.1	21.1	0.0	7.1	11.3	0.0
11/30/2024 7:30	7.1	75.0	0.0	7.3	11.2	3.3	11/30/2024 7:30	6.1	21.5	0.0	7.1	11.3	0.0
11/30/2024 7:45	7.2	76.1	0.0	7.4	11.2	3.5	11/30/2024 7:45	6.1	21.6	0.0	7.0	11.3	0.0
11/30/2024 8:00	7.1	76.4	0.0	7.4	11.2	3.5	11/30/2024 8:00	6.1	21.5	0.0	7.0	11.3	0.0
11/30/2024 8:15	6.6	67.2	0.0	7.4	11.2	3.4	11/30/2024 8:15	6.1	21.5	0.0	7.0	11.3	0.0
11/30/2024 8:30	6.3	64.2	0.0	7.3	11.3	3.2	11/30/2024 8:30	6.1	21.1	0.0	7.0	11.3	0.0
11/30/2024 8:45	6.1	42.0	0.0	7.2	11.4	3.0	11/30/2024 8:45	6.1	21.2	0.0	7.0	11.3	0.0
11/30/2024 9:00	6.0	42.4	0.0	7.2	11.5	3.0	11/30/2024 9:00	6.1	20.8	0.0	7.1	11.3	0.0
11/30/2024 9:15	6.0	38.4	0.0	7.2	11.5	3.0	11/30/2024 9:15	6.1	20.9	0.0	6.9	11.3	0.1
11/30/2024 9:30	5.9	34.3	0.0	7.0	11.5	3.0	11/30/2024 9:30	6.1	20.7	0.0	7.1	11.3	0.0
11/30/2024 9:45	5.9	32.1	0.0	6.9	11.5	3.0	11/30/2024 9:45	6.2	20.6	0.0	7.1	11.3	0.0
11/30/2024 10:00	5.9	31.0	0.0	7.0	11.5	3.0	11/30/2024 10:00	6.2	20.4	0.0	7.0	11.3	0.0
11/30/2024 10:15	5.9	30.7	0.0	6.9	11.5	3.0	11/30/2024 10:15	6.2	20.5	0.0	7.1	11.3	0.0
11/30/2024 10:30	6.3	33.5	0.0	6.8	11.6	3.4	11/30/2024 10:30	6.2	20.3	0.0	7.1	11.3	0.0
11/30/2024 10:45	7.0	70.8	0.0	7.1	11.3	4.3	11/30/2024 10:45	6.2	20.2	0.0	6.9	11.3	0.0
11/30/2024 11:00	7.2	74.9	0.0	7.3	11.2	4.1	11/30/2024 11:00	6.2	20.1	0.0	7.1	11.3	0.1
11/30/2024 11:15	7.2	74.0	0.0	7.3	11.2	4.5	11/30/2024 11:15	6.2	20.0	0.0	7.1	11.3	0.0
11/30/2024 11:30	7.1	75.6	0.0	7.4	11.2	4.4	11/30/2024 11:30	6.2	19.9	0.0	7.1	11.3	0.0
11/30/2024 11:45	6.7	68.6	0.0	7.4	11.2	4.0	11/30/2024 11:45	6.3	20.2	0.0	7.1	11.3	0.0
11/30/2024 12:00	6.4	65.6	0.0	7.3	11.3	3.4	11/30/2024 12:00	6.3	20.2	0.0	7.0	11.3	0.0
11/30/2024 12:15	6.2	41.8	0.0	7.1	11.4	3.1	11/30/2024 12:15	6.3	20.1	0.0	7.0	11.3	0.0
11/30/2024 12:30	6.2	40.9	0.0	7.2	11.4	3.1	11/30/2024 12:30	6.3	20.0	0.0	7.1	11.3	0.0
11/30/2024 12:45	6.1	33.4	0.0	6.9	11.5	3.0	11/30/2024 12:45	6.4	20.0	0.0	7.0	11.3	0.0
11/30/2024 13:00	6.1	33.2	0.0	7.0	11.5	3.0	11/30/2024 13:00	6.4	19.7	0.0	7.1	11.3	0.0
11/30/2024 13:15	6.8	56.6	0.0	6.8	11.5	3.6	11/30/2024 13:15	6.4	20.2	0.0	7.1	11.2	0.0
11/30/2024 13:30	7.3	70.7	0.0	7.2	11.2	3.8	11/30/2024 13:30	6.4	20.6	0.0	7.2	11.2	0.0
11/30/2024 13:45	7.5	76.0	0.0	7.3	11.1	3.8	11/30/2024 13:45	6.5	20.9	0.0	7.1	11.2	0.0
11/30/2024 14:00	7.5	76.6	0.0	7.4	11.1	3.7	11/30/2024 14:00	6.5	21.1	0.0	7.0	11.2	0.0
11/30/2024 14:15	7.5	77.4	0.0	7.4	11.1	3.7	11/30/2024 14:15	6.5	21.6	0.0	7.1	11.2	0.0
11/30/2024 14:30	7.1	76.4	0.0	7.4	11.1	3.6	11/30/2024 14:30	6.5	22.0	0.0	7.1	11.2	0.0
11/30/2024 14:45	6.8	57.4	0.0	7.4	11.2	3.3	11/30/2024 14:45	6.5	22.3	0.0	7.1	11.2	0.0
11/30/2024 15:00	6.5	55.4	0.0	7.3	11.3	3.1	11/30/2024 15:00	6.5	22.6	0.0	7.2	11.2	0.1
11/30/2024 15:15	6.4	39.4	0.0	7.2	11.3	3.0	11/30/2024 15:15	6.5	22.7	0.0	7.0	11.2	0.1
11/30/2024 15:30	6.4	38.3	0.0	7.1	11.4	3.0	11/30/2024 15:30	6.5	23.3	0.0	7.1	11.2	0.2
11/30/2024 15:45	6.3	33.5	0.0	7.0	11.4	3.0	11/30/2024 15:45	6.5	24.1	0.0	7.0	11.2	0.0
11/30/2024 16:00	6.3	32.3	0.0	7.0	11.4	3.0	11/30/2024 16:00	6.5	25.0	0.0	7.1	11.2	0.1
11/30/2024 16:15	7.1	66.3	0.0	6.9	11.3	3.6	11/30/2024 16:15	6.4	25.2	0.0	7.1	11.2	0.0
11/30/2024 16:30	7.4	75.9	0.0	7.3	11.1	3.9	11/30/2024 16:30	6.4	24.7	0.0	7.0	11.2	0.0
11/30/2024 16:45	7.5	77.7	0.0	7.4	11.1	3.9	11/30/2024 16:45	6.4	25.1	0.0	7.1	11.2	0.2
11/30/2024 17:00	7.5	78.6	0.0	7.4	11.1	3.9	11/30/2024 17:00	6.4	24.7	0.0	7.0	11.2	0.5
11/30/2024 17:15	7.1	77.1	0.0	7.4	11.1	3.8	11/30/2024 17:15	6.4	24.4	0.0	7.1	11.2	0.8
11/30/2024 17:30	6.7	72.6	0.0	7.3	11.2	3.4	11/30/2024 17:30	6.4	24.1	0.0	7.1	11.2	0.6
11/30/2024 17:45	6.5	49.2	0.0	7.2	11.3	3.3	11/30/2024 17:45	6.4	23.8	0.0	6.9	11.2	0.3
11/30/2024 18:00	6.3	47.3	0.0	7.2	11.4	3.2	11/30/2024 18:00	6.4	23.5	0.0	7.1	11.2	0.2
11/30/2024 18:15	6.3	38.3	0.0	7.0	11.4	3.3	11/30/2024 18:15	6.4	23.5	0.0	7.1	11.2	0.6
11/30/2024 18:30	6.3	37.7	0.0	7.1	11.4	3.4	11/30/2024 18:30	6.4	23.2	0.0	7.1	11.2	0.0
11/30/2024 18:45	6.2	34.5	0.0	7.0	11.4	3.4	11/30/2024 18:45	6.4	23.3	0.0	7.0	11.2	0.0
11/30/2024 19:00	6.2	34.1	0.0	7.0	11.4	3.4	11/30/2024 19:00	6.4	23.1	0.0	7.0	11.2	0.0
11/30/2024 19:15	6.4	42.0	0.0	6.9	11.5	3.5	11/30/2024 19:15	6.4	23.3	0.0	7.1	11.2	0.0
11/30/2024 19:30	7.2	66.5	0.0	7.0	11.2	3.8	11/30/2024 19:30	6.4	23.2	0.0	7.1	11.2	0.0
11/30/2024 19:45	7.5	76.8	0.0	7.3	11.1	3.8	11/30/2024 19:45	6.4	23.1	0.0	7.1	11.2	0.0
11/30/2024 20:00	7.5	77.6	0.0	7.4	11.1	3.8	11/30/2024 20:00	6.4	22.9	0.0	7.0	11.2	0.0
11/30/2024 20:15	7.5	78.4	0.0	7.4	11.1	3.6	11/30/2024 20:15	6.4	22.6	0.0	7.1	11.2	0.0
11/30/2024 20:30	7.2	77.9	0.0	7.4	11.2	3.6	11/30/2024 20:30	6.4	22.7	0.0	7.2	11.2	0.0
11/30/2024 20:45	6.8	64.7	0.0	7.4	11.1	3.2	11/30/2024 20:45	6.4	22.2	0.0	7.1	11.2	0.0
11/30/2024 21:00	6.5	60.6	0.0	7.3	11.3	3.2	11/30/2024 21:00	6.4	22.1	0.0	7.0	11.2	0.0
11/30/2024 21:15	6.3	43.9	0.0	7.1	11.4	3.1	11/30/2024 21:15	6.4	21.9	0.0	6.9	11.2	0.0
11/30/2024 21:30	6.3	42.3	0.0	7.2	11.4	3.1	11/30/2024 21:30	6.4	21.8	0.0	7.1	11.2	0.0
11/30/2024 21:45	6.2	37.7	0.0	7.0	11.4	3.1	11/30/2024 21:45	6.4	21.6	0.0	7.1	11.2	0.0
11/30/2024 22:00	7.0	52.2	0.0	7.0	11.5	3.5	11/30/2024 22:00	6.4	21.4	0.0	7.0	11.2	0.0
11/30/2024 22:15	7.4	75.9	0.0	7.3	11.2	3.6	11/30/2024 22:15	6.4	21.6	0.0	7.0	11.2	0.0
11/30/2024 22:30	7.5	77.4	0.0	7.4	11.1	3.5	11/30/2024 22:30	6.4	21.6	0.0	6.9	11.2	0.0
11/30/2024 22:45	7.5	77.8	0.0	7.4	11.1	3.5	11/30/2024 22:45	6.4	21.1	0.0	7.1	11.3	0.0
11/30/2024 23:00	7.3	78.3	0.0	7.4	11.1	3.4	11/30/2024 23:00	6.4	21.3	0.0	7.0	11.3	0.0
11/30/2024 23:15	6.9	75.9	0.0	7.4	11.2	3.4	11/30/2024 23:15	6.4	21.0	0.0	7.1	11.2	0.0
11/30/2024 23:30	6.6	71.7	0.0	7.3	11.2	3.2	11/30/2024 23:30	6.3	21.2	0.0	7.1	11.2	0.0
11/30/2024 23:45	6.4	48.4	0.0	7.3	11.3	3.1	11/30/2024 23:45	6.3	21.0	0.0	7.0	11.3	0.0
12/01/2024 0:00	6.3	48.1	0.0	7.2	11.3	3.0	12/01/2024 0:00	6.3	20.7	0.0	7.0	11.2	0.0
12/01/2024 0:15	6.2	38.8	0.0	7.1	11.4	3.0	12/01/2024 0:15	6.3	20.8	0.0	6.9	11.2	0.0
12/01/2024 0:30	6.1	37.5	0.0	7.1	11.4	3.0	12/01/2024 0:30	6.3	20.6	0.0	7.1	11.3	0.0
12/01/2024 0:45	6.1	34.4	0.0	7.0	11.4	3.0	12/01/2024 0:45	6.3	20.5	0.0	7.1	11.3	0.1
12/01/2024 1:00	6.1	32.2	0.0	7.0	11.4	3.1	12/01/2024 1:00	6.3	20.5	0.0	7.1	11.2	0.0
12/01/2024 1:15	7.1	68.3	0.0	6.9	11.3	3.3	12/01/2024 1:15	6.3	20.4	0.0	7.0	11.3	0.0
12/01/2024 1:30	7.3	75.6	0.0	7.3	11.2	3.3	12/01/2024 1:30	6.3	20.1	0.0	7.1	11.3	0.0
12/01/2024 1:45	7.4	77.4	0.0	7.4	11.1	3.3	12/01/2024 1:45	6.3	20.1	0.0	7.1	11.2	0.0
12/01/2024 2:00	7.5	77.7	0.0	7.4	11.1	3.2	12/01/2024 2:00	6.3	20.0	0.0	7.1	11.3	0.0
12/01/2024 2:15	7.1	77.9	0.0	7.4	11.1	3.2	12/01/2024 2:15	6.3	20.1	0.0	7.0	11.3	0.0
12/01/2024 2:30	6.7	77.1	0.0	7.4	11.2	3.0	12/01/2024 2:30	6.3	19.8	0.0	7.0	11.3	0.0
12/01/2024 2:45	6.5	72.1	0.0	7.4	11.1	3.1	12/01/2024 2:45	6.3	19.8	0.0	7.0	11.3	0.0
12/01/2024 3:00	6.3	66.2	0.0	7.3	11.3	3.1	12/01/2024 3:00	6.2	19.7	0.0	7.1	11.3	0.0
12/01/2024 3:15	6.2	50.2	0.0	7.2	11.3	3.0	12/01/2024 3:15	6.2	19.7	0.0	7.1	11.3	0.0
12/01/2024 3:30	6.1	49.1	0.0	7.2	11.3	3.0	12/01/2024 3:30	6.2	19.6	0.0	6.9	11.3	0.0
12/01/2024 3:45	6.0	39.1	0.0	7.1	11.4	2.9	12/01/2024 3:45	6.2	19.5	0.0	6.9	11.3	0.0
12/01/2024 4:00	6.0	39.4	0.0	7.1	11.4	2.9	12/01/2024 4:00	6.2	19.4	0.0	7.0	11.3	0.0
12/01/2024 4:15	6.5	49.7	0.0	7.2</									

12/01/2024 9:00	6.1	65.5	0.0	7.3	11.3	2.9	12/01/2024 9:00	5.9	17.9	0.0	7.0	11.4	0.0
12/01/2024 9:15	5.9	64.1	0.0	7.3	11.4	2.9	12/01/2024 9:15	5.9	17.8	0.0	7.0	11.4	0.0
12/01/2024 9:30	5.8	47.2	0.0	7.2	11.5	2.9	12/01/2024 9:30	5.9	17.7	0.0	7.0	11.4	0.0
12/01/2024 9:45	5.8	48.3	0.0	7.2	11.5	2.9	12/01/2024 9:45	5.9	17.6	0.0	7.0	11.4	0.0
12/01/2024 10:00	5.7	38.4	0.0	7.1	11.5	2.9	12/01/2024 10:00	5.9	17.2	0.0	7.1	11.4	0.0
12/01/2024 10:15	5.7	38.0	0.0	7.1	11.5	3.0	12/01/2024 10:15	6.0	17.4	0.0	7.0	11.4	0.0
12/01/2024 10:30	6.6	65.5	0.0	7.0	11.5	3.1	12/01/2024 10:30	6.0	17.4	0.0	7.0	11.4	0.0
12/01/2024 10:45	7.0	70.4	0.0	7.2	11.3	3.0	12/01/2024 10:45	6.1	17.3	0.0	7.0	11.4	0.0
12/01/2024 11:00	7.2	77.1	0.0	7.4	11.2	3.0	12/01/2024 11:00	6.1	17.3	0.0	7.0	11.3	0.0
12/01/2024 11:15	7.3	77.5	0.0	7.4	11.2	3.0	12/01/2024 11:15	6.2	17.6	0.0	7.0	11.4	0.0
12/01/2024 11:30	7.2	78.2	0.0	7.4	11.2	2.9	12/01/2024 11:30	6.2	17.6	0.0	7.1	11.3	0.0
12/01/2024 11:45	6.8	77.4	0.0	7.4	11.2	2.9	12/01/2024 11:45	6.3	17.6	0.0	7.0	11.3	0.0
12/01/2024 12:00	6.6	74.2	0.0	7.4	11.2	2.9	12/01/2024 12:00	6.3	17.5	0.0	7.1	11.3	0.0
12/01/2024 12:15	6.4	69.7	0.0	7.3	11.3	2.9	12/01/2024 12:15	6.3	17.4	0.0	7.0	11.3	0.0
12/01/2024 12:30	6.3	64.3	0.0	7.4	11.4	2.9	12/01/2024 12:30	6.4	17.2	0.0	7.1	11.3	0.0
12/01/2024 12:45	6.3	53.7	0.0	7.2	11.4	2.9	12/01/2024 12:45	6.4	17.5	0.0	7.1	11.2	0.0
12/01/2024 13:00	6.3	39.5	0.0	7.1	11.4	2.9	12/01/2024 13:00	6.5	17.4	0.0	7.0	11.2	0.0
12/01/2024 13:15	6.3	38.8	0.0	7.1	11.4	2.9	12/01/2024 13:15	6.6	17.3	0.0	7.1	11.2	0.0
12/01/2024 13:30	6.6	39.9	0.0	7.0	11.4	3.1	12/01/2024 13:30	6.6	17.2	0.0	7.0	11.2	0.0
12/01/2024 13:45	7.4	61.8	0.0	7.2	11.3	3.1	12/01/2024 13:45	6.7	17.0	0.0	7.1	11.2	0.0
12/01/2024 14:00	7.7	75.1	0.0	7.3	11.1	3.0	12/01/2024 14:00	6.7	16.8	0.0	7.1	11.2	0.0
12/01/2024 14:15	7.8	76.9	0.0	7.4	11.0	3.0	12/01/2024 14:15	6.7	16.8	0.0	7.0	11.2	0.0
12/01/2024 14:30	7.9	78.0	0.0	7.4	11.0	2.9	12/01/2024 14:30	6.7	16.6	0.0	7.1	11.2	0.0
12/01/2024 14:45	7.6	77.8	0.0	7.4	11.0	2.9	12/01/2024 14:45	6.7	16.5	0.0	6.9	11.2	0.0
12/01/2024 15:00	7.2	72.5	0.0	7.4	11.0	2.9	12/01/2024 15:00	6.7	16.2	0.0	7.1	11.2	0.0
12/01/2024 15:15	7.0	70.6	0.0	7.3	11.1	2.9	12/01/2024 15:15	6.8	16.3	0.0	7.0	11.2	0.0
12/01/2024 15:30	6.8	48.8	0.0	7.3	11.2	2.9	12/01/2024 15:30	6.8	16.3	0.0	7.1	11.1	0.0
12/01/2024 15:45	6.7	52.3	0.0	7.2	11.2	2.9	12/01/2024 15:45	6.8	16.2	0.0	7.1	11.1	0.0
12/01/2024 16:00	6.7	38.2	0.0	7.1	11.3	3.0	12/01/2024 16:00	6.7	16.0	0.0	7.0	11.1	0.0
12/01/2024 16:15	6.7	42.6	0.0	7.1	11.3	2.9	12/01/2024 16:15	6.7	16.1	0.0	7.1	11.2	0.1
12/01/2024 16:30	6.6	30.7	0.0	7.0	11.3	3.0	12/01/2024 16:30	6.7	16.1	0.0	7.0	11.1	0.0
12/01/2024 16:45	7.4	51.3	0.0	7.1	11.3	3.1	12/01/2024 16:45	6.7	16.0	0.0	7.0	11.1	0.0
12/01/2024 17:00	7.8	75.8	0.0	7.3	11.0	3.1	12/01/2024 17:00	6.7	16.0	0.0	6.9	11.1	0.0
12/01/2024 17:15	7.5	76.3	0.0	7.4	11.0	2.9	12/01/2024 17:15	6.6	16.0	0.0	7.0	11.1	0.0
12/01/2024 17:30	7.1	68.8	0.0	7.3	11.1	3.0	12/01/2024 17:30	6.6	16.0	0.0	7.0	11.2	0.0
12/01/2024 17:45	6.8	65.0	0.0	7.3	11.2	3.0	12/01/2024 17:45	6.6	15.8	0.0	7.0	11.2	0.0
12/01/2024 18:00	7.0	55.8	0.0	7.1	11.3	3.1	12/01/2024 18:00	6.6	16.0	0.0	7.0	11.2	0.0
12/01/2024 18:15	7.6	71.8	0.0	7.3	11.1	3.1	12/01/2024 18:15	6.5	15.9	0.0	7.0	11.2	0.0
12/01/2024 18:30	7.6	76.8	0.0	7.4	11.0	3.3	12/01/2024 18:30	6.5	16.0	0.0	7.0	11.2	0.0
12/01/2024 18:45	7.1	75.3	0.0	7.4	11.0	3.2	12/01/2024 18:45	6.5	16.0	0.0	7.0	11.2	0.0
12/01/2024 19:00	6.7	60.4	0.0	7.4	11.2	3.5	12/01/2024 19:00	6.5	16.0	0.0	7.0	11.2	0.0
12/01/2024 19:15	6.5	61.8	0.0	7.3	11.3	3.1	12/01/2024 19:15	6.5	16.0	0.0	7.0	11.2	0.0
12/01/2024 19:30	6.6	41.0	0.0	7.1	11.3	3.1	12/01/2024 19:30	6.5	15.9	0.0	7.0	11.2	0.0
12/01/2024 19:45	7.4	65.6	0.0	7.2	11.2	3.3	12/01/2024 19:45	6.4	16.0	0.0	7.0	11.2	0.0
12/01/2024 20:00	7.6	75.3	0.0	7.5	11.0	3.6	12/01/2024 20:00	6.4	15.9	0.0	7.0	11.2	0.0
12/01/2024 20:15	7.7	77.8	0.0	7.4	11.0	3.9	12/01/2024 20:15	6.4	15.9	0.0	7.0	11.2	0.0
12/01/2024 20:30	7.7	78.6	0.0	7.4	11.0	3.7	12/01/2024 20:30	6.4	15.9	0.0	7.0	11.2	0.0
12/01/2024 20:45	7.3	78.3	0.0	7.5	11.1	3.8	12/01/2024 20:45	6.3	16.0	0.0	7.0	11.2	0.0
12/01/2024 21:00	6.8	74.6	0.0	7.4	11.1	3.6	12/01/2024 21:00	6.3	16.1	0.0	7.0	11.2	0.0
12/01/2024 21:15	6.5	69.1	0.0	7.4	11.2	3.6	12/01/2024 21:15	6.3	16.1	0.0	7.0	11.3	0.0
12/01/2024 21:30	6.3	47.2	0.0	7.3	11.3	3.1	12/01/2024 21:30	6.3	16.1	0.0	7.0	11.3	0.0
12/01/2024 21:45	6.2	50.5	0.0	7.2	11.4	3.1	12/01/2024 21:45	6.3	16.0	0.0	7.0	11.2	0.0
12/01/2024 22:00	6.2	36.6	0.0	7.1	11.4	3.0	12/01/2024 22:00	6.2	16.0	0.0	7.0	11.3	0.0
12/01/2024 22:15	6.1	39.1	0.0	7.1	11.4	3.0	12/01/2024 22:15	6.2	15.9	0.0	7.0	11.3	0.0
12/01/2024 22:30	6.5	51.9	0.0	7.0	11.4	3.4	12/01/2024 22:30	6.2	16.0	0.0	7.0	11.3	0.0
12/01/2024 22:45	7.2	65.0	0.0	7.1	11.2	3.8	12/01/2024 22:45	6.2	16.0	0.0	7.0	11.3	0.0
12/01/2024 23:00	7.4	77.7	0.0	7.4	11.1	4.0	12/01/2024 23:00	6.1	16.0	0.0	7.0	11.3	0.0
12/01/2024 23:15	7.5	78.3	0.0	7.4	11.1	3.9	12/01/2024 23:15	6.1	15.9	0.0	7.0	11.3	0.0
12/01/2024 23:30	7.4	79.0	0.0	7.4	11.1	3.7	12/01/2024 23:30	6.1	15.9	0.0	7.0	11.3	0.0
12/01/2024 23:45	6.9	78.0	0.0	7.4	11.2	3.5	12/01/2024 23:45	6.1	15.7	0.0	7.0	11.3	0.0