Eagle Mountain - Woodfibre Gas Pipeline Project

BCER Waste Discharge Permit Weekly Report

Contents

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.

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

Permit Frequency	Parameters	Details
During discharges	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
During discharges	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

Summary-BC Rail Site

Site Activities and Exceedances

- 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.
- No discharge occurred during this reporting period.

Discharge from Water Treatment Plant

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.

Table 3: Discharge from Water Treatment System Information

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

*Max discharge is 515 m3/day

Receiving Environment Monitoring-Squamish River

Table 4 and 5 below includes information on water quality and lab sampling. Appendix B includes a full set of lab results with real time data. 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
Squamish River Upstream	2025-02-24	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix B.

Table 5: Downstream Monitoring Information

	Date of Lab Sample	Real Time Monitored	Results
Squamish River Downstream	2025-02-24	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.

Summary-Woodfibre

Site Activities and Exceedances

- Weekly upstream, downstream and end of pipe taken by Triton.
- Ongoing tunnelling at WLNG and grouting works to mitigate water ingress.
- pH measure outside the applicable range is being assessed by the QP for this reporting period.

Discharge from Water Treatment Plant

Table 6 below includes information on the discharge water. Appendix C includes real time/field samples from the discharge.

Table 6: Discharges from Water Treatment System

Location	Date of Discharge	Real Time Monitored and Daily Monitoring	Discharge Volume
Woodfibre	2025-02-24	Yes-Appendix C	1,130m^3
Woodfibre	2025-02-25	Yes-Appendix C*lab sample day	1,140m^3
Woodfibre	2025-02-26	Yes-Appendix C	1,188m^3
Woodfibre	2025-02-27	Yes-Appendix C	1,486m^3
Woodfibre	2025-02-28	Yes-Appendix C	1,337m^3
Woodfibre	2025-03-01	Yes-Appendix C	1,395m^3
Woodfibre	2025-03-02	Yes-Appendix C	1,446m^3

*Max discharge is 1500m^3/day

Receiving Environment Monitoring-East Creek

Table 7 and 8 below includes information on water quality and lab sampling. Appendix D includes a full set of lab results with real time data. The receiving environment is being monitored as outlined in the permit with additional oversight by the QP.

Table 7: Upstream Monitoring Information

Location	Date of Lab Sample	Real Time Monitored	Results
East Creek Upstream	2025-02-25	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix D.

Table 8: Downstream Monitoring Information

	Date of Lab Sample	Real Time Monitored	Results
East Creek Downstream	2025-02-25	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 interval

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

BCR Site Batch Sample Analysis

No Discharges

BCR Site Batch Sample Lab Documentation

No Discharges

BCR Site WTP Discharge Field Notes and Logs
No Discharges

Appendix B: BCR Site Receiving Environment Documentation

BCR Site Receiving Environment Sample Analysis

TRITON	Sample ID:	Reviewed and signed off by:			Farshad Shafiei Ph.D., R.P.Bio.	SQU US1 (Upstream)	SQU DS1 (Downstream)	Sample or value notes	BCWQ FAL - Short Term	BCWQ FAL - Long Term	BCWQ MAL - Short Term	BCWQ MAL - Long Term
	LAB ID					VA25A3341-U01	VA25A3341-002					
	Date Sampled					24-Feb-2025	24-Feb-2025					
	Time Sampled					11:00	11:55					
Analyte	Units	FAL-ST [1,2]	FAL-LT [1,2]	MAL-ST [1]	MAL-LT [1,2]	Water	Water					
						N/A	N/A		Guideline notes			
In Situ Parameters												
pH (field)	pH units	6.5-9.0	6.5-9.0	7.0-8.7	7.0-8.7	6.44	6.62		If natural pH < 6.5, no statistically significant decrease from background. No restriction in increase except in areas with unique flora or fauna. Unrestricted change permitted within range of 6.5 to 9.0. If natural pH > 9.0, no statistically significant increase from background. Refer to BC Water Quality Guidelines for more information.		Unrestricted change within this range (for protection of mollusc embryo development).	
Temperature (field)	°C	Max +/- from BKG 1°C [4]	-	Max +/- from BKG 1°C [4]	-	3.8	5.3		Guideline is species-dependent. Short-term daily temperature guideline is 19°C for streams with unknown fish distribution. Refer to footnote 4 for background temperature range for the Squamish River. Refer to BC Water Quality Guidelines for more information Hourly rate of change not to exceed 1°C. Calculation: US value +/- 1 = guideline range		Guidelines for marine waters are based on natural ambient conditions. Max and min. 1°C change from natural condition. Natural temperature cycle characteristic of the site should not be altered in amplitude or frequency by human activities. Max rate of any human-induced temperature change not to exceed 0.5°C hourly. Insame with unknown fish distribution. Refer to footnote 4 for background temperature range for the	
Conductivity (field)	µS/cm	-	-	-	-	46	46					
Turbidity (field)	NTU	Varies with background, see note Guideline = 12.49	Varies with background, see note Guideline = 4.11 5-week discrete sampling average = 3.9 (DS)	Varies with background, see note Guideline = 12.49	Varies with background, see note Guideline = 4.11 5-week discrete sampling average = 3.9 (DS)	4.42	7.89		Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 8 = DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value + 5 = DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value + (US value*0.1) = DS guideline	Change from background of 2 NTU at any one time for 30 days in clear flows. Note that a rolling average of US values over a 30-day period is required to properly calculate this guideline. Guideline calculated in this spreadsheet using US concentration at the time of sampling.	Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 8 = DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value + 5 = DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value + (US value*0.1) = DS guideline	Change from background of 2 NTU at any one time for 30 days in clear flows. Note that a rolling average of US values over a 30-day period is required to properly calculate this guideline. Guideline calculated in this spreadsheet using US concentration at the time of sampling.
Dissolved Oxygen (field)	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	12.69	12.12		Buried embryo/alevin minimum 9 mg/L, all other life stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 9 mg/L, all other life stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.
General Parameters												
Hardness (as $CaCO_3$) (total)	mg/L	-	-	-	-	14.7	14.6					
Total Dissolved Solids	mg/L	-	-	-	-	38	39					
Total Suspended Solids	mg/L	Varies with background, see note Guideline = 28.0	Varies with background, see note Guideline = 16.8 5-week discrete sampling average = 3.4 (DS)	Varies with background, see note Guideline = 28.0	Varies with background, see note Guideline = 16.8 5-week discrete sampling average = 3.4 (DS)	3.0	5.0		Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value + (US value*0.1) = DS guideline	Change from background of 5 mg/L @ one time for a druation of 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. Guideline calculated in this spreadsheet using US concentration at the time of sampling.	Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value + (US value*0.1) = DS guideline	Change from background of 5 mg/L @ one time for a druation of 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. Guideline calculated in this spreadsheet using US concentration at the time of sampling.
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	2.92	2.76			Long-term (30-day) median within 200% of background median [3]		
Total Alkalinity ($CaCO_3$)	mg/L	-	Categorical	-	-	12.4	12			Guideline is for alkalinity (as CaCO3) and categorizes the sensitivity of a water body to acid inputs. Alkalinity < 10 mg/L is considered highly sensitive to acid inputs, 10 - 20 mg/L is considered moderately sensitive to acid inputs, > 20 mg/L is considered low sensitivity.		
Total Sulfide (as S)	mg/L	-	-	-	-	< 0.0015	< 0.0015					
Total Sulfide (un-ionized as H_2S)	mg/L	-	0.002	-	-	< 0.0015	< 0.0015			Working guideline		
Total Sulfide (as H_2S)	mg/L	-	-	-	-	< 0.0016	< 0.0016					
Anions and Nutrients												
Ammonia	mg/L ammonia-N	Varies with pH and temperature. See note. Guideline = 27.2	Varies with pH and temperature. See note. Guideline = 1.99	Varies with pH and temperature. See note. Guideline = 191	Varies with pH, temperature and salinity. See note. Guideline = 29	0.0079	0.0087		Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D in BC WQG for guideline values.	Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27C in BC WQG for guideline values.	Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 27F in BC WQG for guideline values.	Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 27E in BC WQG for guideline values.
Bromide	mg/L	-	-	-	-	< 0.050	< 0.050					
Chloride	mg/L	600	150	+/- 10% from BKG	+/- 10% from BKG	1.78	1.74				Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.	Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
Fluoride	mg/L	Varies with hardness Guideline = 0.563	-	1.5	-	0.023	< 0.020		Guideline has interim status. Guideline is calculated with the following equation: Guideline = [- 51.73 + 92.57 log10 (hardness)] ^ 0.01			
Nitrate (as N)	mg/L	32.8	3	-	3.7	0.137	0.12					
Nitrite (as N)	mg/L	Varies with chloride. See note. Guideline = 0.06	Varies with chloride. See note. Guideline = 0.02	-	-	0.0011	< 0.0010		Varies with chloride. Refer to Table 29B in BC WQG for guideline values.	Varies with chloride. Refer to Table 27B in BC WQG for guideline values.		
Total Nitrogen	mg/L	-	-	-	-	0.258	0.233					
Total Phosphorous	mg/L	-	0.005 to 0.015	-	-	0.0258	0.0212			Guideline is for lakes, refer to BCWQ guideline for nutrients and algae for more information. Guideline does not apply to site.		
Sulfate (as SO_4)	mg/L	-	Varies with hardness. See note. Guideline = 128	-	-	4	3.94			Guidelines for hardness ranges below: Hardness 0 - 30: 128 Hardness 31 - 75: 218 Hardness 76 - 180: 309 Hardness 181 - 250: 429		
Total Metals												
Aluminum (Al)-Total	mg/L	-	Varies with pH, DOC, hardness Guideline = 0.044 5-week field average = 0.075 (US), 0.09 (DS)	-	-	0.22	0.272			Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = [EXP((0.945 * LN(DOC)) + (2.251 * LN(hardness)) + (1.005 * pH) + (-0.264 * (LN(hardness)^ pH))-0.8992)/1000] If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.		
Antimony (Sb)-Total	mg/L	0.25	0.074	-	-	< 0.00010	< 0.00010					
Arsenic (As)-Total	mg/L	-	0.005	-	0.0125	0.00018	0.00021					Interim guideline status
Barium (Ba)-Total	mg/L	-	1	-	-	0.0062	0.00997			Working guideline status		
Beryllium (Be)-Total	mg/L	-	0.00013	-	0.100	< 0.000100	< 0.000100			Working guideline status		Working guideline status
Bismuth (Bi)-Total	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Boron (B)-Total	mg/L	-	1.2	-	1.2	< 0.0100	< 0.0100					Working guideline status
Cadmium (Cd)-Total	mg/L	-	-	-	0.00012	0.0000102	0.0000109					
Calcium (Ca)-Total	mg/L	-	-	-	-	4.92	4.88					
Cesium (Cs)-Total	mg/L	-	-	-	-	0.000021	0.000023					
Chromium (Cr) - Total	mg/L	-	-	-	-	< 0.00050	< 0.00050					
Chromium (CrIII)-Total	mg/L	-	0.0089	-	0.056	< 0.00050	< 0.00050			Working guideline status		Working guideline status
Chromium (CrVI)-Total	mg/L	-	0.0020	-	0.0015	< 0.00050	< 0.00050			Working guideline status		Working guideline status
Cobalt (Co)-Total	mg/L	0.11	0.004	-	-	< 0.00010	< 0.00013					
Copper (Cu)-Total	mg/L	-	-	0.003	0.0014 5-week field average = 0.00074 (US), 0.00071 (DS)	0.00127	0.00133					
Iron (Fe)-Total	mg/L	1	-	-	-	0.21	0.277					
Lead (Pb)-Total	mg/L	-	-	0.14	0.002 5-week field average = 0.000052 (US), 0.000054 (DS)	0.00006	0.000072					
Lithium (Li)-Total	mg/L	-	-	-	-	< 0.0010	0.0011					
Magnesium (Mg)-Total	mg/L	-	-	-	-	0.596	0.6					
Manganese (Mn)-Total	mg/L	Varies with hardness Guideline = 0.715	Varies with hardness Guideline = 0.768	-	-	0.008	0.00885		Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = (0.0044 * hardness + 0.605) Guideline applies to samples with hardness 25-259 mg/L. Lowest value for guideline is 0.77 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 = (0.01932* hardness + 0.54) Guideline applies to samples with hardness 37-450 mg/L. Lowest value for guideline is 0.81 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.		
Mercury (Hg)-Total	mg/L	-	Varies with methyl mercury Guideline = N/A	-	-	0.0000074	< 0.0000050			When MeHg ≤ 0.5% of total Hg, guideline is equal to 0.02 mg/L Guideline = (0.19)(MeHg)/(MeHg) When MeHg ≥ 0.5% of total Hg, guideline is equal to 0.02 mg/L		
Molybdenum (Mo)-Total	mg/L	46	7.6	-	-	0.000473	0.00476					
Nickel (Ni)-Total	mg/L	-	-	-	0.0083	< 0.00050	< 0.00050					Working guideline status
Phosphorus (P)-Total	mg/L	-	0.005 to 0.015	-	-	< 0.050	< 0.050			Guideline only applies to lakes with salmonid species being the dominant fish species. Guideline is for reference only and does not apply to site.		
Potassium (K)-Total	mg/L	-	-	-	-	0.465	0.463					
Rubidium (Rb)-Total	mg/L	-	-	-	-	0.00075	0.0008					
Selenium (Se)-Total	mg/L	-	0.002	-	0.002	< 0.000050	< 0.000050			Guideline for freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, invertebrate and fish tissue. Refer to BC Water Quality Guidelines for more information on guidelines and sampling guidance.		Guideline for marine aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, invertebrate and fish tissue. Refer to BC Water Quality Guidelines for
Silicon (Si)-Total	mg/L	-	-	-	-	4.12	4.12					
Silver (Ag)-Total	mg/L	Varies with hardness, see note Guideline = 0.0001	Varies with hardness, see note Guideline = 0.00005 5-week field average = < 0.00001 (US), < 0.00001 (DS)	0.003	0.0015	< 0.000010	< 0.000010		Varies with hardness Guideline ranges: Hardness ≤ 100: 0.0001 Hardness > 100: 0.003	Varies with hardness Guideline ranges: Hardness ≤ 100: 0.00005 Hardness > 100: 0.0015		Guideline applies to open coast and estuaries. Guideline is applicable to the EGP site.
Sodium (Na)-Total	mg/L	-	-	-	-	2.01	2.02					
Strontium (Sr)-Total	mg/L	-	-	-	-	0.0329	0.032					
Sulfur (S)-Total	mg/L	-	-	-	-	1.14	1.04					
Tellurium (Te)-Total	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Thallium (Tl)-Total	mg/L	-	0.00003	-	-	< 0.000010	< 0.000010			30-day average, site-specific objective for the lower Columbia River, BC. Guideline is for reference only and does not apply to Inlhe EGP site.		
Thorium (Th)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Tin (Sn)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Titanium (Ti)-Total	mg/L	-	-	-	-	0.00489	0.00786					
Tungsten (W)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Uranium (U)-Total	mg/L	0.0165	0.0075	-	-	0.000036	0.000042			Working guideline status		
Vanadium (V)-Total	mg/L	-	0.05	-	0.005 5-week field average = 0.00146 (US), 0.00140 (DS)	0.0012	0.00133					Working guideline status
Zinc (Zn)-Total	mg/L	-	-	0.055	Guideline = 0.010 5-week field average = 0.00398 (US), 0.00308 (DS)	0.0031	< 0.0030					
Zirconium (Zr)-Total	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Dissolved Metals												
Aluminum (Al)-Dissolved	mg/L	-	-	-	-	0.073	0.0702					
Antimony (Sb)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Arsenic (As)-Dissolved	mg/L	-	-	-	-	0.0002	0.00019					
Barium (Ba)-Dissolved	mg/L	-	-	-	-	0.00674	0.00651					
Beryllium (Be)-Dissolved	mg/L	-	-	-	-	< 0.000100	< 0.000100					
Bismuth (Bi)-Dissolved	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Boron (B)-Dissolved	mg/L	-	-	-	-	< 0.010	< 0.010					
Cadmium (Cd)-Dissolved	mg/L	Varies with hardness, see note Guideline = 0.000082	Varies with hardness, see note Guideline = 0.000076	-	-	0.0000088	0.0000074		Guideline is hardness dependent. Guideline is applicable to water hardness between 7.0 and 400 mg/L. Guideline is calculated with the following formula: Guideline = (EXP(1.03 * (LN(hardness)) - 5.274))/1000) Lowest value for guideline is 0.000015 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 hardness between 3.4 and 285 mg/L. Guideline is calculated with the following formula: Guideline = (EXP(0.736 * (LN(hardness)) - 4.943))/1000) Lowest value for guideline is 0.00004. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.		
Calcium (Ca)-Dissolved	mg/L	-	Categorical, see note	-	-	4.88	4.73			Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Standard is 4 mg/L dissolved Ca for the most sensitive waterbodies,5 - 8 mg/L for waterbodies with moderate sensitivity to acid inputs. Waterbodies with dissolved calcium > 8mg/L are considered to have low sensitivity to acid inputs.		
Cesium (Cs)-Dissolved	mg/L	-	-	-	-	0.000013	0.000012					
Chromium (Cr)-Dissolved	mg/L	-	-	-	-	< 0.00050	< 0.00050					
Chromium (CrVI)-Dissolved	mg/L	-	-	-	-	-	-					
Chromium (CrVI)-Dissolved	mg/L	-	-	-	-	-	-					
Cobalt (Co)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Copper (Cu)-Dissolved	mg/L	Guideline varies with other parameters, see note Guideline = 0.0007	Guideline varies with other parameters, see note Guideline = 0.0002 5-week field average = 0.00056 (US), 0.00051 (DS)	-	-	0.00091	0.00084		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date		
Iron (Fe)-Dissolved	mg/L	0.35	-	-	-	0.06	0.058					
Lead (Pb)-Dissolved	mg/L	-	Guideline varies with DOC and hardness Guideline = 0.00183 5-week field average = <0.00005 (US), < 0.00005 (DS)	-	-	< 0.000050	< 0.000050			Guideline varies with DOC and hardness, refer to BC Water Quality Guidelines for more information. Guideline uses equation: (EXP((0.9145*LN(DOC))+(0.2141*LN(Hardness))+(0.4304))/21000) where DOC range is 0.5-31.5 mg/L and hardness range is 4.7-511 mg/L.		
Lithium (Li)-Dissolved	mg/L	-	-	-	-	< 0.0010	< 0.0010					
Magnesium (Mg)-Dissolved	mg/L	-	-	-	-	0.577	0.558					
Manganese (Mn)-Dissolved	mg/L	-	-	-	-	0.00514	0.00482					
Mercury (Hg)-Dissolved	mg/L	-	-	-	-	< 0.0000050	< 0.0000050					
Molybdenum (Mo)-Dissolved	mg/L	-	-	-	-	0.000481	0.000457					
Nickel (Ni)-Dissolved	mg/L	Guideline varies with other parameters, see note Guideline = 0.0162	Guideline varies with other parameters, see note Guideline = 0.00101 5-week field average = < 0.0005 (US), < 0.0005 (DS)	0.0003	-	< 0.00050	< 0.00050		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date		
Phosphorus (P)-Dissolved	mg/L	-	-	-	-	< 0.050	< 0.050					
Potassium (K)-Dissolved	mg/L	-	-	-	-	0.51	0.478					
Rubidium (Rb)-Dissolved	mg/L	-	-	-	-	0.00068	0.00072					
Selenium (Se)-Dissolved	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Silicon (Si)-Dissolved	mg/L	-	-	-	-	3.19	3.03					
Silver (Ag)-Dissolved	mg/L	-	-	-	-	< 0.000010	< 0.000010					
Sodium (Na)-Dissolved	mg/L	-	-	-	-	2.1	2.03					
Strontium (Sr)-Dissolved	mg/L	-	-	-	-	0.0315	0.03					
Sulfur (S)-Dissolved	mg/L	-	-	-	-	1.25	1.21					
Tellurium (Te)-Dissolved	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Thallium (Tl)-Dissolved	mg/L	-	-	-	-	< 0.000010	< 0.000010					
Thorium (Th)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Tin (Sn)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Titanium (Ti)-Dissolved	mg/L	-	-	-	-	0.00072	0.00057					
Tungsten (W)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Uranium (U)-Dissolved	mg/L	-	-	-	-	0.000031	0.000034					
Vanadium (V)-Dissolved	mg/L	-	-	-	-	0.00094	0.00081					
Zinc (Zn)-Dissolved	mg/L	Varies with DOC and hardness Guideline = 0.010	Varies with pH, DOC, hardness Guideline = 0.00498 5-week field average = 0.003 (US), 0.0021 (DS)	-	-	0.0019	0.0016		Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = (EXP((0.823 * (LN(hardness)) + (0.24 * (LN(DOC))) + 0.228))/21000) If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following formula: Guideline = (EXP((0.974 * (LN(hardness))) - (0.813 * pH) + (0.398 * (LN(DOC))) + 4.625)/21000) Guideline only applies to water with pH between 6.5 and 8.13, DOC between 0.3 and 22.9 mg/L, annd hardness between 25.4 and 399 mg/L. If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.		
Zirconium (Zr)-Dissolved	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Applied Guideline:		**British Columbia Approved and Working Water Quality Guidelines (NOV 2023) for Freshwater Aquatic Life (FAL) & Marine Aquatic Life (MAL) Short-Term (ST) & Long-Term (LT)**										

[1]BC MOECCS. 2023. BC Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from: wqg_summary_expwildlife_wildlife_agri.pdf (gov.bc.ca)

[2]BC MOECCS. 2021. BC Working Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from: bc_env_working_water_quality_guidelines.pdf (gov.bc.ca)

[3]Note that long-term guidelines apply to averaged data to account for chronic impacts to aquatic life. Ideally, five samples collected at evenly spaced intervals over 30 days is considered to be the minimum number needed to calculate the long-term average of any parameter, though this may vary by parameter and site conditions. Long-term guidelines applied here are for reference only and may not indicate chronic impacts to aquatic life if exceedences occur in the short term.

[4]Background temperature ranges: Dec-Feb: 2.0-4.0C; Mar-Apr: 4.0-6.0C; May-June: 6.0-12.0C; Jul-Sept: 9.0-12.0C; Oct-Nov: 3.0-5.0

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

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

Parameters Used to Calculate Guidelines

Analyte	Units	Method of Measurements	Values	
			SQU US1 (Upstream)	SQU DS1 (Downstream)
pH (field)	pH units	Field pH taken using handheld meters during sampling used in calculations	6.44	6.62
Temperature (field)	°C	Field temperature taken using handheld meters during sampling used in calculations	3.8	5.3
Turbidity (field)	NTU	Field turbidity taken using handheld meters during sampling used in calculations	4.42	7.89
Hardness (as $CaCO_3$) (total)	mg/L	Laboratory tested total hardness taken at each respective sample site on the day of sampling used in guideline calculations	14.7	14.6
Dissolved Organic Carbon (DOC)	mg/L	Laboratory tested dissolved organic carbon tested at the lab used in guideline calculations	2.92	2.76
Total Alkalinity ($CaCO_3$)	mg/L	Laboratory tested total alkalinity used in calculations	12.4	12
Chloride	mg/L	Laboratory tested chloride taken at each respective sample site on the day of sampling used in guideline calculations	1.78	1.74

BCR Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order	: **VA25A3941**			
Client	: **Triton Environmental Consultants Ltd.**	Laboratory	:	ALS Environmental - Vancouver
Contact		Account Manager		
Address		Address		
Telephone		Telephone		
Project	: 11964	Date Samples Received	:	24-Feb-2025 15:00
PO	: 11964 - Task 20 - Phase 3C-4C	Date Analysis Commenced	:	25-Feb-2025
C-O-C number	: ----	Issue Date	:	03-Mar-2025 15:58
Sampler	: ----			
Site	: Water Analysis			
Quote number	: VA25-TRIT100-001			
No. of samples received	: 2			
No. of samples analysed	: 2			

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

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

General Comments

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

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

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

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

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

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

<: 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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
						VA25A3941-001	VA25A3941-002	----	----	----
						Result	Result	----	----	----
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm		46.000	46.000	----	----	----
pH, field	----	EF001/VA	0.10	pH units		6.44	6.64	----	----	----
Temperature, field	----	EF001/VA	0.10	°C		3.80	5.30	----	----	----
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L		14.6	14.1	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L		14.7	14.6	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L		38	39	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L		3.0	5.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L		12.4	12.0	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L		0.0079	0.0087	----	----	----
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L		1.78	1.74	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L		0.023	<0.020	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L		0.137	0.120	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L		0.0011	<0.0010	----	----	----
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L		0.258	0.233	----	----	----
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L		0.0258	0.0212	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L		4.00	3.94	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L		2.92	2.76	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
						VA25A3941-001	VA25A3941-002	----	----	----
						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		0.220	0.272	----	----	----
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		0.00016	0.00021	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L		0.00820	0.00867	----	----	----
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		0.0000102	0.0000109	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L		4.92	4.88	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L		0.000021	0.000023	----	----	----
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	0.00013	----	----	----
Copper, total	7440-50-8	E420/VA	0.00050	mg/L		0.00127	0.00133	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L		0.210	0.277	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L		0.000060	0.000072	----	----	----
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L		<0.0010	0.0011	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L		0.596	0.600	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
						VA25A3941-001	VA25A3941-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		0.00800	0.00885	----	----	----
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L		0.0000074	<0.0000050	----	----	----
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L		0.000473	0.000476	----	----	----
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, total	7440-09-7	E420/VA	0.050	mg/L		0.465	0.463	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L		0.00075	0.00080	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		4.12	4.12	----	----	----
Silver, total	7440-22-4	E420/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Sodium, total	7440-23-5	E420/VA	0.050	mg/L		2.01	2.02	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		0.0329	0.0320	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		1.14	1.04	----	----	----
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		0.00489	0.00786	----	----	----
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		0.000036	0.000042	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		0.00120	0.00133	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3941-001	VA25A3941-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		0.0031	<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		0.0730	0.0702	----	----	----
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		0.00020	0.00019	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L		0.00674	0.00651	----	----	----
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		0.0000088	0.0000074	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L		4.88	4.73	----	----	----
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L		0.000013	0.000012	----	----	----
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		0.00091	0.00084	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L		0.060	0.058	----	----	----
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		0.577	0.558	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L		0.00514	0.00482	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
						VA25A3941-001	VA25A3941-002	----	----	----
						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		0.000481	0.000457	----	----	----
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		0.510	0.478	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L		0.00069	0.00071	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L		<0.000050	0.000053	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L		3.78	3.79	----	----	----
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		2.10	2.03	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L		0.0315	0.0300	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L		1.25	1.21	----	----	----
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		0.00072	0.00057	----	----	----
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		0.000031	0.000034	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L		0.00094	0.00081	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L		0.0019	0.0016	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	SQU US 1	SQU DS 1	----	----	----
					Client sampling date / time	24-Feb-2025 11:00	24-Feb-2025 11:55	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A3941-001	VA25A3941-002	----	----	----
						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.

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **VA25A3941**	Page	: 1 of 14
Client	: **Triton Environmental Consultants Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact		Account Manager	
Address		Address	
Telephone	: ----	Telephone	
Project	: 11964	Date Samples Received	: 24-Feb-2025 15:00
PO	: 11964 - Task 20 - Phase 3C-4C	Issue Date	: 03-Mar-2025 15:56
C-O-C number	: ----		
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

Key

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

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

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

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

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

Analysis Holding Time Compliance

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

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

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

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

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) SQU DS 1	E298	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) SQU US 1	E298	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE SQU DS 1	E235.Br-L	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE SQU US 1	E235.Br-L	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE SQU DS 1	E235.Cl	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE SQU US 1	E235.Cl	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE SQU DS 1	E235.F	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Fluoride in Water by IC										
HDPE SQU US 1	E235.F	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE SQU DS 1	E235.NO3-L	24-Feb-2025	25-Feb-2025	3 days	1 days	✓	25-Feb-2025	3 days	1 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE SQU US 1	E235.NO3-L	24-Feb-2025	25-Feb-2025	3 days	1 days	✓	25-Feb-2025	3 days	1 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE SQU DS 1	E235.NO2-L	24-Feb-2025	25-Feb-2025	3 days	1 days	✓	25-Feb-2025	3 days	1 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE SQU US 1	E235.NO2-L	24-Feb-2025	25-Feb-2025	3 days	1 days	✓	25-Feb-2025	3 days	1 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE SQU DS 1	E235.SO4	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE SQU US 1	E235.SO4	24-Feb-2025	25-Feb-2025	28 days	1 days	✓	25-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) SQU DS 1	E366	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) SQU US 1	E366	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
SQU DS 1	E372-U	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
SQU US 1	E372-U	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
SQU DS 1	E509	24-Feb-2025	28-Feb-2025	28 days	4 days	✓	28-Feb-2025	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
SQU US 1	E509	24-Feb-2025	28-Feb-2025	28 days	4 days	✓	28-Feb-2025	28 days	4 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
SQU US 1	E421	24-Feb-2025	26-Feb-2025	180 days	2 days	✓	26-Feb-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
SQU DS 1	E421	24-Feb-2025	26-Feb-2025	180 days	2 days	✓	26-Feb-2025	180 days	4 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid)										
SQU DS 1	EF001	24-Feb-2025	----	----	----		26-Feb-2025	----	2 days	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid)										
SQU US 1	EF001	24-Feb-2025	----	----	----		26-Feb-2025	----	2 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (field filtered/sulfuric acid)										
SQU DS 1	E358-L	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	27-Feb-2025	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (field filtered/sulfuric acid)										
SQU US 1	E358-L	24-Feb-2025	27-Feb-2025	28 days	3 days	✓	27-Feb-2025	28 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
SQU DS 1	E290	24-Feb-2025	25-Feb-2025	14 days	1 days	✓	25-Feb-2025	14 days	1 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
SQU US 1	E290	24-Feb-2025	25-Feb-2025	14 days	1 days	✓	25-Feb-2025	14 days	1 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
SQU DS 1	E162	24-Feb-2025	----	----	----		01-Mar-2025	7 days	5 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
SQU US 1	E162	24-Feb-2025	----	----	----		01-Mar-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
SQU DS 1	E160	24-Feb-2025	----	----	----		01-Mar-2025	7 days	5 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
SQU US 1	E160	24-Feb-2025	----	----	----		01-Mar-2025	7 days	5 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
SQU DS 1	E532	24-Feb-2025	----	----	----		27-Feb-2025	28 days	3 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
SQU US 1	E532	24-Feb-2025	----	----	----		27-Feb-2025	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	*Method*	*Sampling Date*	*Extraction / Preparation*				*Analysis*			
			Preparation Date	*Holding Times*		*Eval*	*Analysis Date*	*Holding Times*		*Eval*
				Rec	*Actual*			*Rec*	*Actual*	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) SQU DS 1	E508	24-Feb-2025	02-Mar-2025	28 days	6 days	✓	02-Mar-2025	28 days	6 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid) SQU US 1	E508	24-Feb-2025	02-Mar-2025	28 days	6 days	✓	02-Mar-2025	28 days	6 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) SQU DS 1	E420	24-Feb-2025	25-Feb-2025	180 days	1 days	✓	26-Feb-2025	180 days	2 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid) SQU US 1	E420	24-Feb-2025	25-Feb-2025	180 days	1 days	✓	26-Feb-2025	180 days	2 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) SQU DS 1	E395	24-Feb-2025	----	----	----		25-Feb-2025	7 days	1 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide) SQU US 1	E395	24-Feb-2025	----	----	----		25-Feb-2025	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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
TSS by Gravimetry	E160	1891522	1	12	8.3	5.0	✓
TDS by Gravimetry	E162	1891520	1	12	8.3	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1885699	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1885698	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	1885697	1	5	20.0	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1885701	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1885700	1	10	10.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1885702	1	10	10.0	5.0	✓
Alkalinity Species by Titration	E290	1885695	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1889183	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1889178	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1889180	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1889181	1	20	5.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1886307	1	14	7.1	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1885509	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1886254	1	19	5.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1892335	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1891356	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	1891522	1	12	8.3	5.0	✓
TDS by Gravimetry	E162	1891520	1	12	8.3	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1885699	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1885698	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	1885697	1	5	20.0	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1885701	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1885700	1	10	10.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1885702	1	10	10.0	5.0	✓
Alkalinity Species by Titration	E290	1885695	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1889183	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1889178	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1889180	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1889181	1	20	5.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1886307	1	14	7.1	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1885509	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1886254	1	19	5.2	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
Total Mercury in Water by CVAAS	E508	1892335	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1891356	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Method Blanks (MB)							
TSS by Gravimetry	E160	1891522	1	12	8.3	5.0	✓
TDS by Gravimetry	E162	1891520	1	12	8.3	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1885699	1	5	20.0	5.0	✓
Chloride in Water by IC	E235.Cl	1885698	1	10	10.0	5.0	✓
Fluoride in Water by IC	E235.F	1885697	1	5	20.0	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1885701	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1885700	1	10	10.0	5.0	✓
Sulfate in Water by IC	E235.SO4	1885702	1	10	10.0	5.0	✓
Alkalinity Species by Titration	E290	1885695	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1889183	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1889178	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1889180	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1889181	1	20	5.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1886307	1	14	7.1	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1885509	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1886254	1	19	5.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1892335	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1891356	1	20	5.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Matrix Spikes (MS)							
Bromide in Water by IC (Low Level)	E235.Br-L	1885699	0	5	0.0	5.0	×
Chloride in Water by IC	E235.Cl	1885698	0	10	0.0	5.0	×
Fluoride in Water by IC	E235.F	1885697	0	5	0.0	5.0	×
Nitrite in Water by IC (Low Level)	E235.NO2-L	1885701	1	15	6.6	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1885700	0	10	0.0	5.0	×
Sulfate in Water by IC	E235.SO4	1885702	0	10	0.0	5.0	×
Ammonia by Fluorescence	E298	1889183	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1889178	1	20	5.0	5.0	✓
Total Nitrogen by Colourimetry	E366	1889180	1	20	5.0	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1889181	1	20	5.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1886307	1	14	7.1	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1885509	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1886254	1	19	5.2	5.0	✓
Total Mercury in Water by CVAAS	E508	1892335	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1891356	1	20	5.0	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓

Methodology References and Summaries

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

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 ± 1°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 ± 2°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 CO2. 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 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 methlyene blue colourimetric method. Results expressed "as H2S" if reported represent the maximum possible H2S concentration based on the total sulfide concentration in the sample. The H2S calculation converts Total Sulphide as (S2-) and reports it as Total Sulphide as (H2S)
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 CaCO3), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 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 CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO3 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, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine	EF001 ALS Environmental - Vancouver	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3 or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.

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

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

ALS Canada Ltd.

QUALITY CONTROL REPORT

Work Order	: **VA25A3941**	Page	: 1 of 17
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact		Account Manager	
Address		Address	
Telephone		Telephone	
Project	: 11964	Date Samples Received	: 24-Feb-2025 15:00
PO	: 11964 - Task 20 - Phase 3C-4C	Date Analysis Commenced	: 25-Feb-2025
C-O-C number	: ----	Issue Date	: 03-Mar-2025 15:56
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Quality Control Report contains the following information:

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

Signatories

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

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

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: 1885695)											
VA25A3880-002	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1891520)											
FJ2500548-015	Anonymous	Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	<10	0	Diff <2x LOR	----
Physical Tests (QC Lot: 1891522)											
FJ2500548-015	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1885697)											
VA25A3601-003	Anonymous	Fluoride	16984-48-8	E235.F	0.100	mg/L	<0.100	0.130	0.030	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1885698)											
VA25A3601-003	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	25.0	25.1	0.481%	20%	----
Anions and Nutrients (QC Lot: 1885699)											
VA25A3601-003	Anonymous	Bromide	24959-67-9	E235.Br-L	0.250	mg/L	<0.250	<0.250	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1885700)											
VA25A3601-003	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0250	mg/L	20.0	20.0	0.0646%	20%	----
Anions and Nutrients (QC Lot: 1885701)											
VA25A3601-003	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0050	mg/L	1.92	1.92	0.208%	20%	----
Anions and Nutrients (QC Lot: 1885702)											
VA25A3601-003	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1.50	mg/L	146	146	0.0181%	20%	----
Anions and Nutrients (QC Lot: 1889180)											
VA25A3115-016	Anonymous	Nitrogen, total	7727-37-9	E366	0.030	mg/L	0.047	0.048	0.001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1889181)											
VA25A3115-016	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0021	<0.0020	0.00009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1889183)											
VA25A3115-012	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.0093	0.0094	0.0001	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1889178)											
VA25A3115-012	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	0.51	0.67	0.16	Diff <2x LOR	----
Total Sulfides (QC Lot: 1886307)											
VA25A3718-001	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.0075	mg/L	49.6 µg/L	0.0474	0.0022	Diff <2x LOR	----
Total Metals (QC Lot: 1885509)											
VA25A3720-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0150	mg/L	0.256	0.255	0.472%	20%	----
		Antimony, total	7440-36-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Total Metals (QC Lot: 1885509) - continued											
VA25A3720-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00050	mg/L	0.0700	0.0703	0.488%	20%	----
		Barium, total	7440-39-3	E420	0.00050	mg/L	0.0690	0.0696	0.856%	20%	----
		Beryllium, total	7440-41-7	E420	0.000100	mg/L	0.000124	0.000143	0.000019	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000250	mg/L	<0.000250	<0.000250	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.050	mg/L	<0.050	0.050	0.00001	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000250	mg/L	0.0374	0.0381	1.94%	20%	----
		Calcium, total	7440-70-2	E420	0.250	mg/L	308	302	2.25%	20%	----
		Cesium, total	7440-46-2	E420	0.000050	mg/L	0.000128	0.000129	0.000001	Diff <2x LOR	----
		Chromium, total	7440-47-3	E420	0.00250	mg/L	<0.00250	<0.00250	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00050	mg/L	0.0155	0.0152	1.88%	20%	----
		Copper, total	7440-50-8	E420	0.00250	mg/L	0.0857	0.0852	0.663%	20%	----
		Iron, total	7439-89-6	E420	0.050	mg/L	15.7	15.4	2.07%	20%	----
		Lead, total	7439-92-1	E420	0.000250	mg/L	<0.000250	<0.000250	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0250	mg/L	92.2	93.8	1.77%	20%	----
		Manganese, total	7439-96-5	E420	0.00050	mg/L	17.9	17.6	1.54%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000250	mg/L	0.000647	0.000659	0.000012	Diff <2x LOR	----
		Nickel, total	7440-02-0	E420	0.00250	mg/L	0.0117	0.0116	0.00007	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.250	mg/L	<0.250	<0.250	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.250	mg/L	7.72	7.77	0.538%	20%	----
		Rubidium, total	7440-17-7	E420	0.00100	mg/L	0.00316	0.00323	0.00008	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000250	mg/L	<0.000250	<0.000250	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.50	mg/L	8.14	8.08	0.686%	20%	----
		Silver, total	7440-22-4	E420	0.000050	mg/L	0.000052	<0.000050	0.000002	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.250	mg/L	25.2	25.0	0.655%	20%	----
		Strontium, total	7440-24-6	E420	0.00100	mg/L	0.888	0.897	1.03%	20%	----
		Sulfur, total	7704-34-9	E420	2.50	mg/L	431	423	1.82%	20%	----
		Tellurium, total	13494-80-9	E420	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00150	mg/L	<0.00150	<0.00150	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000050	mg/L	0.00109	0.00108	0.253%	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: 1885509) - continued											
VA25A3720-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00250	mg/L	<0.00250	<0.00250	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0150	mg/L	2.86	2.86	0.0321%	20%	----
		Zirconium, total	7440-67-7	E420	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
Total Metals (QC Lot: 1892335)											
KS2500608-002	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1886254)											
VA25A3948-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0020	mg/L	0.0030	0.0030	0.00001	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00020	mg/L	0.0226	0.0224	0.625%	20%	----
		Arsenic, dissolved	7440-38-2	E421	0.00020	mg/L	0.0193	0.0196	1.46%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00020	mg/L	0.0373	0.0383	2.57%	20%	----
		Beryllium, dissolved	7440-41-7	E421	0.000040	mg/L	<0.000040	<0.000040	0	Diff <2x LOR	----
		Bismuth, dissolved	7440-69-9	E421	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		Boron, dissolved	7440-42-8	E421	0.020	mg/L	0.128	0.127	0.0007	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000100	mg/L	0.0000229	0.0000187	0.0000042	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.100	mg/L	102	100	1.40%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000020	mg/L	0.00462	0.00455	1.51%	20%	----
		Chromium, dissolved	7440-47-3	E421	0.00100	mg/L	0.00130	0.00125	0.00005	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00020	mg/L	0.00034	0.00036	0.00002	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00040	mg/L	0.00112	0.00115	0.00003	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.020	mg/L	0.036	0.035	0.0003	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000100	mg/L	0.000192	0.000187	0.000005	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0020	mg/L	0.249	0.239	3.86%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0100	mg/L	16.8	17.3	3.17%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00020	mg/L	0.184	0.186	1.09%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000100	mg/L	0.00504	0.00517	2.38%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00100	mg/L	0.00527	0.00529	0.00002	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.100	mg/L	<0.100	<0.100	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.100	mg/L	4.08	4.10	0.392%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00040	mg/L	0.0106	0.0102	3.12%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000100	mg/L	0.000287	0.000318	0.000031	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.100	mg/L	2.74	2.69	1.93%	20%	----
		Silver, dissolved	7440-22-4	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Sodium, dissolved	7440-23-5	E421	0.100	mg/L	131	130	0.603%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00040	mg/L	7.00	7.01	0.271%	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: 1886254) - continued											
VA25A3948-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	1.00	mg/L	174	172	1.13%	20%	----
		Tellurium, dissolved	13494-80-9	E421	0.00040	mg/L	<0.00040	<0.00040	0	Diff <2x LOR	----
		Thallium, dissolved	7440-28-0	E421	0.000020	mg/L	0.000056	0.000059	0.000003	Diff <2x LOR	----
		Thorium, dissolved	7440-29-1	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Tin, dissolved	7440-31-5	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Titanium, dissolved	7440-32-6	E421	0.00060	mg/L	<0.00060	<0.00060	0	Diff <2x LOR	----
		Tungsten, dissolved	7440-33-7	E421	0.00020	mg/L	0.00039	0.00039	0.000003	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000020	mg/L	0.00214	0.00214	0.264%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0020	mg/L	0.0101	0.0100	0.0002	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00040	mg/L	<0.00040	<0.00040	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1891356)											
VA25A3898-014	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1890023)											
FJ2500546-013	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: 1885695)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1891520)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Physical Tests (QCLot: 1891522)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Anions and Nutrients (QCLot: 1885697)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1885698)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1885699)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1885700)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1885701)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1885702)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1889180)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1889181)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1889183)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Organic / Inorganic Carbon (QCLot: 1889178)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1886307)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1885509)						
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: 1885509) - 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: 1892335)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1886254)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1886254) - 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: 1891356)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1890023)						
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: 1885695)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	106	85.0	115	----
Physical Tests (QCLot: 1891520)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	114	85.0	115	----
Physical Tests (QCLot: 1891522)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	96.7	85.0	115	----
Anions and Nutrients (QCLot: 1885697)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.8	90.0	110	----
Anions and Nutrients (QCLot: 1885698)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1885699)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	97.6	85.0	115	----
Anions and Nutrients (QCLot: 1885700)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	100	90.0	110	----
Anions and Nutrients (QCLot: 1885701)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	98.8	90.0	110	----
Anions and Nutrients (QCLot: 1885702)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1889180)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	105	75.0	125	----
Anions and Nutrients (QCLot: 1889181)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	103	80.0	120	----
Anions and Nutrients (QCLot: 1889183)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	107	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1889178)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	98.0	80.0	120	----
Total Sulfides (QCLot: 1886307)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	103	80.0	120	----
Total Metals (QCLot: 1885509)									

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: 1885509) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	98.0	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	99.6	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	105	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	104	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	93.6	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	97.9	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	93.2	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	103	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	95.4	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	99.0	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	97.9	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	100	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	102	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	99.5	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	91.4	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	97.6	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	97.5	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	98.1	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	99.2	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	99.6	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	97.9	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	98.9	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	102	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	98.3	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	100	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	94.1	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	98.3	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	100	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	99.3	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	96.9	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	97.5	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	99.7	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1885509) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	95.0	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	95.5	80.0	120	----
Total Metals (QCLot: 1892335)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	94.2	80.0	120	----
Dissolved Metals (QCLot: 1886254)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	93.6	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	96.2	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	100	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	100.0	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	93.2	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	94.7	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	90.1	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	91.9	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	90.4	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	95.9	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	96.9	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	93.0	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	95.4	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	96.0	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	95.8	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	91.7	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	95.2	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	94.8	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	95.0	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	95.3	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	96.5	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	94.1	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	94.9	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	92.8	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	99.1	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	86.8	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	100.0	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	96.1	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	96.0	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: 1886254) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	96.9	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	95.2	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	93.0	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	93.4	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	91.4	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	97.0	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	97.6	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	97.0	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	91.9	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	90.0	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	91.7	80.0	120	----
Speciated Metals (QCLot: 1890023)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	96.1	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: 1885701)										
VA25A3880-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.466 mg/L	0.5 mg/L	93.3	75.0	125	----
Anions and Nutrients (QCLot: 1889180)										
VA25A3115-017	Anonymous	Nitrogen, total	7727-37-9	E366	0.402 mg/L	0.4 mg/L	100	70.0	130	----
Anions and Nutrients (QCLot: 1889181)										
VA25A3115-017	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0490 mg/L	0.05 mg/L	98.0	70.0	130	----
Anions and Nutrients (QCLot: 1889183)										
VA25A3115-013	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.105 mg/L	0.1 mg/L	105	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1889178)										
VA25A3115-013	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	5.08 mg/L	5 mg/L	102	70.0	130	----
Total Sulfides (QCLot: 1886307)										
VA25A3718-002	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.843 mg/L	1 mg/L	84.3	75.0	125	----
Total Metals (QCLot: 1885509)										
VA25A3720-002	Anonymous	Aluminum, total	7429-90-5	E420	0.188 mg/L	0.2 mg/L	94.1	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0185 mg/L	0.02 mg/L	92.3	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	0.0342 mg/L	0.04 mg/L	85.6	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00895 mg/L	0.01 mg/L	89.5	70.0	130	----
		Boron, total	7440-42-8	E420	0.086 mg/L	0.1 mg/L	86.1	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00377 mg/L	0.004 mg/L	94.4	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00949 mg/L	0.01 mg/L	94.9	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0388 mg/L	0.04 mg/L	97.1	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0190 mg/L	0.02 mg/L	95.1	70.0	130	----
		Copper, total	7440-50-8	E420	0.0182 mg/L	0.02 mg/L	91.0	70.0	130	----
		Iron, total	7439-89-6	E420	1.92 mg/L	2 mg/L	95.8	70.0	130	----
		Lead, total	7439-92-1	E420	0.0180 mg/L	0.02 mg/L	90.2	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0825 mg/L	0.1 mg/L	82.5	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	0.0191 mg/L	0.02 mg/L	95.6	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0374 mg/L	0.04 mg/L	93.6	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.99 mg/L	10 mg/L	99.9	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0426 mg/L	0.04 mg/L	106	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: 1885509) - continued										
VA25A3720-002	Anonymous	Silicon, total	7440-21-3	E420	9.26 mg/L	10 mg/L	92.6	70.0	130	----
		Silver, total	7440-22-4	E420	0.00354 mg/L	0.004 mg/L	88.4	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	ND mg/L	----	ND	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0392 mg/L	0.04 mg/L	98.0	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00356 mg/L	0.004 mg/L	89.1	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0193 mg/L	0.02 mg/L	96.5	70.0	130	----
		Tin, total	7440-31-5	E420	0.0182 mg/L	0.02 mg/L	91.0	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	0.0190 mg/L	0.02 mg/L	95.3	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00376 mg/L	0.004 mg/L	93.9	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.1000 mg/L	0.1 mg/L	100.0	70.0	130	----
		Zinc, total	7440-66-6	E420	0.356 mg/L	0.4 mg/L	89.1	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0388 mg/L	0.04 mg/L	97.0	70.0	130	----
Total Metals (QCLot: 1892335)										
VA25A3941-001	SQU US 1	Mercury, total	7439-97-6	E508	0.0000885 mg/L	0 mg/L	88.5	70.0	130	----
Dissolved Metals (QCLot: 1886254)										
VA25A3948-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.195 mg/L	0.2 mg/L	97.4	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0190 mg/L	0.02 mg/L	94.9	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0206 mg/L	0.02 mg/L	103	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0185 mg/L	0.02 mg/L	92.5	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0368 mg/L	0.04 mg/L	91.9	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00849 mg/L	0.01 mg/L	84.9	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	----	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00356 mg/L	0.004 mg/L	88.9	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00903 mg/L	0.01 mg/L	90.3	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0386 mg/L	0.04 mg/L	96.6	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0185 mg/L	0.02 mg/L	92.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0182 mg/L	0.02 mg/L	90.8	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.90 mg/L	2 mg/L	94.9	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0178 mg/L	0.02 mg/L	88.8	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	ND mg/L	----	ND	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	0.0193 mg/L	0.02 mg/L	96.7	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0370 mg/L	0.04 mg/L	92.6	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	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	ND mg/L	----	ND	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0787 mg/L	0.08 mg/L	98.4	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.30 mg/L	10 mg/L	93.0	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1886254) - continued										
VA25A3948-002	Anonymous	Silver, dissolved	7440-22-4	E421	0.00689 mg/L	0.008 mg/L	86.2	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0382 mg/L	0.04 mg/L	95.6	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00349 mg/L	0.004 mg/L	87.2	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0192 mg/L	0.02 mg/L	96.2	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0185 mg/L	0.02 mg/L	92.7	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0393 mg/L	0.04 mg/L	98.3	70.0	130	----
		Tungsten, dissolved	7440-33-7	E421	0.0190 mg/L	0.02 mg/L	94.8	70.0	130	----
		Uranium, dissolved	7440-61-1	E421	0.00365 mg/L	0.004 mg/L	91.3	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0985 mg/L	0.1 mg/L	98.5	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.365 mg/L	0.4 mg/L	91.3	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0392 mg/L	0.04 mg/L	98.1	70.0	130	----
Dissolved Metals (QCLot: 1891356)										
VA25A3898-015	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000891 mg/L	0 mg/L	89.1	70.0	130	----
Speciated Metals (QCLot: 1890023)										
FJ2500546-014	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.246 mg/L	0.25 mg/L	98.5	70.0	130	----

Chain of Custody (COC) / Analytical Request Form

ALS Environmental
www.alsglobal.com

Affix ALS barcode label here
(lab use only)

COC Number: 17 -

Page 1 of

Report To	Contact and company name below will appear on the final report
Company:	Triton Environmental
Contact:	
Phone:	
Street:	
City/Province:	
Postal Code:	
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☑ ☐ NO
☑ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days)
- 4 day [P4-20%] ☐
- 3 day [P3-25%] ☐
- 2 day [P2-50%] ☐

EMERGENCY
- 1 Business day [E1 - 100%] ☐
- Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: March 4/25 dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:	VA25-TRIT100-001
Job #:	11964
PO / AFE:	11964 - Task 20 - Phase 3C-4C
LSD:	

ALS Lab Work Order # (lab use only):

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Total metals + mercury	Dissolved metals + mercury	Total hexavalent chromium	Total trivalent chromium	TSS	TDS	Nutrients (ammonia, ammonium, total nitrogen, total phosphorus)	Total sulfide (low) (as H2S), Unionized Sulfide (low)	Anions scan (Br, Cl, F, NO2, NO3, SO4)	General parameters (alkalinity)	DOC					SAMPLES ON HOLD	Sample is hazardous (please provide further detail)	NUMBER OF CONTAINERS
						F					P	P			F/P							
	SQU US 1	Feb 24/25	11:00	Water	R	R	R	R	R	R	R	R	R	R	R						N	9
	pH: 6.44 cond: 46 temp: 3.8																					
	SQU DS 1	Feb 24/25	11:55	Water	R	R	R	R	R	R	R	R	R	R	R						N	9
	pH: 6.69 cond: 46 temp: 5.3																					

Environmental Division
Vancouver
Work Order Reference
VA25A3941

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ ☑ NO

Are samples for human consumption/ use? ☐ ☑ NO

Special Instructions / Specify Criteria to ac (elect

Triton Project # 11964

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice Packs ☑ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				10			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Feb 24/2025	Time: 2:40	Received by:	Date:	Time:	Date: Feb-24	Time: 15:00	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SEPT 2017 FRONT

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

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

BCR Site Receiving Environment Field Notes and Logs

FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2025-2-24-Renkers-B09A6

Project Component:	Tunnel	**Site Name:**	Receiving Environment - Downstream of Discharge
Inspection Date:	02/24/2025	**Location:**	BC Rail Site
Triton QP:	Stephanie Renkers	**Latitude/Longitude:**	49.725354 -123.165173
Temperature(c):	Low 4 High 8	**Permit:**	AE 111824
Weather Conditions:	Overcast	**Ground Conditions:**	Damp

Observations

Time: 11:55:53 **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

Installed new rental sonde and sent old sonde in for service maintenance.

Photos

Photo: 1

Location: SQU DS

Description: Upstream view

Photo: 2

Location: SQU DS

Description: Across view

Photos

Photo: 3

Location: SQU DS

Description: Downstream view

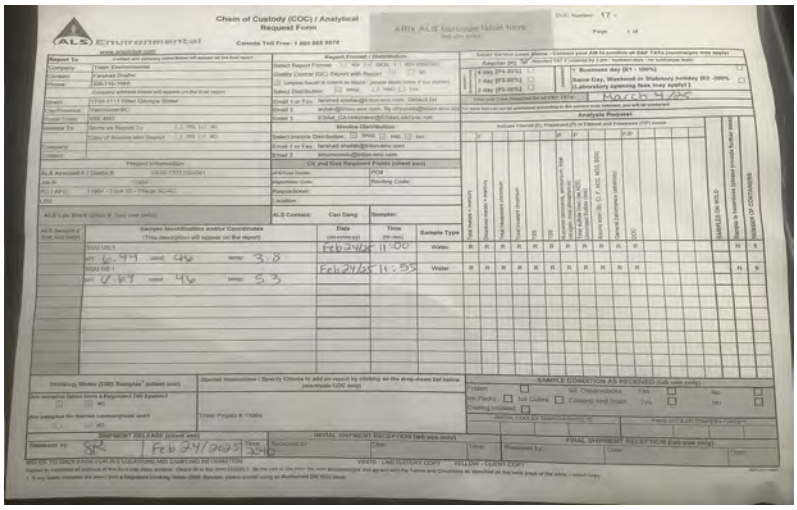

Photo: 4

Location: SQU DS

Description: Lab COC

Sign Off

Report Prepared By:	Stephanie Renkers	**Report Reviewed:**	Yes
Report Reviewer:	Farshad Shafiei	**Professional(s) of Record:**	N/A
Name:			
Designation:			
Designation Number:			

FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2025-2-24-Renkers-0543C

Project Component:	Tunnel	**Site Name:**	Receiving Environment - Upstream of Discharge
Inspection Date:	02/24/2025	**Location:**	BC Rail Site
Triton QP:	Stephanie Renkers	**Latitude/Longitude:**	49.726866 -123.163912
Temperature(c):	Low 4 High 8	**Permit:**	AE 111824
Weather Conditions:	Overcast	**Ground Conditions:**	Damp

Observations

Time: 11:00:00 **Flow Volume (visual):** high

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

Installed new rental sonde and sent old sonde in for service maintenance.

Photos

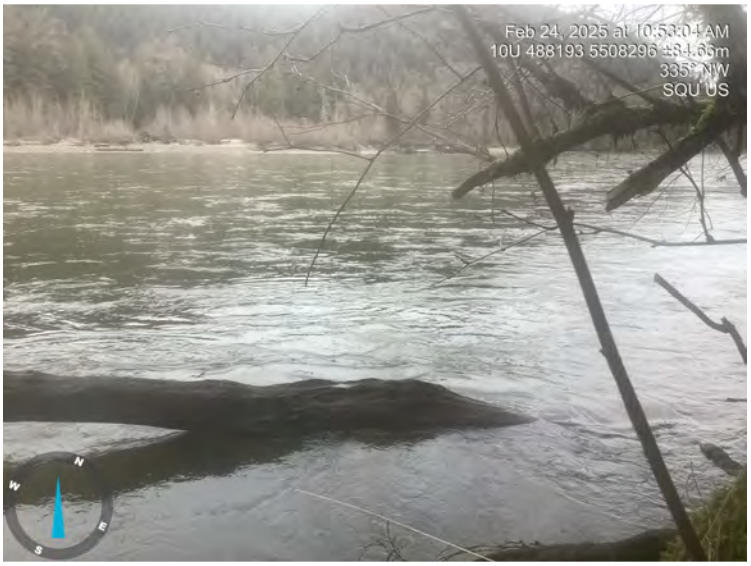

Photo: 1

Location: SQU US

Description: Upstream view

Photo: 2

Location: SQU US

Description: Across view

Photos

Photo: 3

Location: SQU US

Description: Downstream view

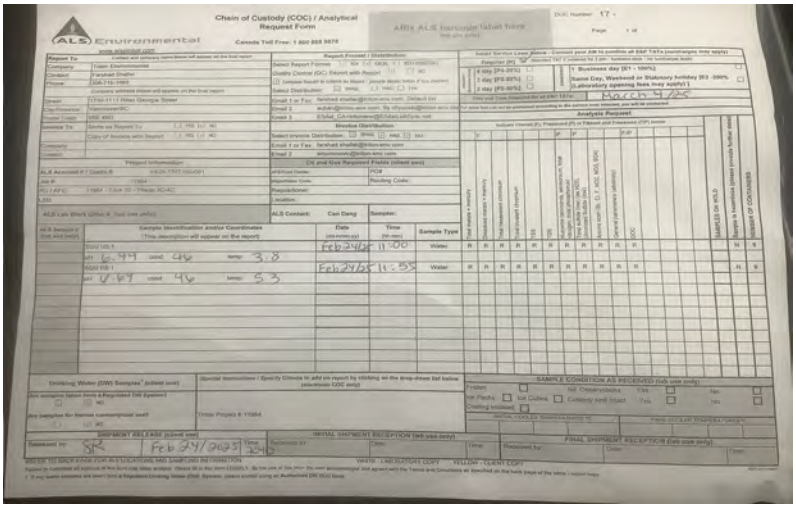

Photo: 4

Location: SQU US

Description: Lab COC

Sign Off

Report Prepared By:	Stephanie Renkers	**Report Reviewed:**	Yes
Report Reviewer:		**Professional(s) of Record:**	
Name:			
Designation:			
Designation Number:			

BCR Plant Site	SQU Downstream (DS)							SQU Upstream (US)						
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)	Guideline = SQU US + 5 or 8 NTU
2/24/2025 0:00	3.8	42.8	0.0	7.1	12.0	1.5	2/24/2025 0:00	4.8	53.5	0.0	6.8	12.5	0.8	8.8
2/24/2025 0:15	3.8	42.7	0.0	7.1	12.0	2.0	2/24/2025 0:15	4.8	53.4	0.0	6.8	12.5	0.6	8.6
2/24/2025 0:30	3.8	42.8	0.0	7.1	12.0	2.5	2/24/2025 0:30	4.8	53.4	0.0	6.7	12.5	1.1	9.1
2/24/2025 0:45	3.8	42.8	0.0	7.1	12.0	2.2	2/24/2025 0:45	4.8	53.8	0.0	6.7	12.5	1.9	9.9
2/24/2025 1:00	3.8	42.6	0.0	7.0	12.0	2.3	2/24/2025 1:00	4.7	53.2	0.0	6.7	12.5	2.7	10.7
2/24/2025 1:15	3.8	42.5	0.0	7.1	12.0	1.4	2/24/2025 1:15	4.7	52.8	0.0	6.7	12.6	2.8	10.8
2/24/2025 1:30	3.8	42.3	0.0	7.0	12.0	2.9	2/24/2025 1:30	4.7	52.7	0.0	6.8	12.6	4.7	12.7
2/24/2025 1:45	3.7	42.4	0.0	7.0	12.0	3.3	2/24/2025 1:45	4.7	52.6	0.0	6.8	12.6	2.4	10.4
2/24/2025 2:00	3.7	42.0	0.0	7.1	12.0	3.1	2/24/2025 2:00	4.7	51.5	0.0	6.8	12.6	1.8	9.8
2/24/2025 2:15	3.7	41.5	0.0	7.1	12.0	2.4	2/24/2025 2:15	4.6	51.0	0.0	6.8	12.6	0.4	8.4
2/24/2025 2:30	3.7	40.8	0.0	7.0	12.1	2.7	2/24/2025 2:30	4.6	50.7	0.0	6.7	12.6	0.0	8.0
2/24/2025 2:45	3.7	41.0	0.0	7.1	12.1	2.5	2/24/2025 2:45	4.6	50.4	0.0	6.7	12.7	2.9	10.9
2/24/2025 3:00	3.6	40.8	0.0	7.1	12.1	3.1	2/24/2025 3:00	4.6	50.6	0.0	6.7	12.7	0.0	8.0
2/24/2025 3:15	3.6	41.2	0.0	7.1	12.1	3.2	2/24/2025 3:15	4.6	51.0	0.0	6.7	12.7	0.5	8.5
2/24/2025 3:30	3.6	41.2	0.0	7.1	12.1	2.8	2/24/2025 3:30	4.6	51.4	0.0	6.8	12.7	2.5	10.5
2/24/2025 3:45	3.6	41.3	0.0	7.1	12.1	2.5	2/24/2025 3:45	4.5	50.8	0.0	6.8	12.7	1.5	9.5
2/24/2025 4:00	3.6	41.4	0.0	7.1	12.1	2.9	2/24/2025 4:00	4.5	51.4	0.0	6.8	12.7	0.0	8.0
2/24/2025 4:15	3.6	41.5	0.0	7.1	12.1	2.3	2/24/2025 4:15	4.5	51.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 4:30	3.6	41.3	0.0	7.1	12.1	1.9	2/24/2025 4:30	4.5	50.5	0.0	6.8	12.7	0.5	8.5
2/24/2025 4:45	3.5	40.7	0.0	7.1	12.1	1.7	2/24/2025 4:45	4.5	49.7	0.0	6.8	12.7	1.4	9.4
2/24/2025 5:00	3.5	40.3	0.0	7.0	12.2	2.5	2/24/2025 5:00	4.4	49.4	0.0	6.8	12.8	0.8	8.8
2/24/2025 5:15	3.5	40.1	0.0	7.1	12.2	1.6	2/24/2025 5:15	4.4	49.4	0.0	6.8	12.8	0.0	8.0
2/24/2025 5:30	3.5	40.5	0.0	7.1	12.2	1.4	2/24/2025 5:30	4.4	50.5	0.0	6.8	12.7	0.0	8.0
2/24/2025 5:45	3.5	41.2	0.0	7.1	12.2	0.9	2/24/2025 5:45	4.5	51.6	0.0	6.8	12.7	0.0	8.0
2/24/2025 6:00	3.5	41.6	0.0	7.2	12.1	1.4	2/24/2025 6:00	4.5	51.8	0.0	6.8	12.7	0.0	8.0
2/24/2025 6:15	3.5	42.3	0.0	7.1	12.1	1.1	2/24/2025 6:15	4.5	53.3	0.0	6.8	12.7	0.0	8.0
2/24/2025 6:30	3.5	42.5	0.0	7.1	12.1	1.2	2/24/2025 6:30	4.5	53.5	0.0	6.8	12.7	0.0	8.0
2/24/2025 6:45	3.5	42.7	0.0	7.0	12.1	0.7	2/24/2025 6:45	4.5	53.5	0.0	6.8	12.7	0.0	8.0
2/24/2025 7:00	3.5	42.8	0.0	7.1	12.1	1.1	2/24/2025 7:00	4.5	53.3	0.0	6.8	12.7	0.0	8.0
2/24/2025 7:15	3.5	42.7	0.0	7.1	12.1	1.6	2/24/2025 7:15	4.5	53.4	0.0	6.8	12.7	0.0	8.0
2/24/2025 7:30	3.5	42.5	0.0	7.1	12.1	0.5	2/24/2025 7:30	4.4	53.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 7:45	3.5	42.6	0.0	7.1	12.1	1.2	2/24/2025 7:45	4.4	53.2	0.0	6.8	12.7	0.0	8.0
2/24/2025 8:00	3.5	42.8	0.0	7.1	12.1	0.6	2/24/2025 8:00	4.4	52.7	0.0	6.8	12.7	0.0	8.0
2/24/2025 8:15	3.4	42.3	0.0	7.1	12.1	2.8	2/24/2025 8:15	4.4	53.0	0.0	6.8	12.7	0.0	8.0
2/24/2025 8:30	3.4	42.4	0.0	7.1	12.1	1.4	2/24/2025 8:30	4.4	52.3	0.0	6.8	12.7	0.0	8.0
2/24/2025 8:45	3.4	42.1	0.0	7.1	12.1	1.4	2/24/2025 8:45	4.4	52.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 9:00	3.4	42.1	0.0	7.0	12.1	1.2	2/24/2025 9:00	4.4	52.2	0.0	6.8	12.7	0.0	8.0
2/24/2025 9:15	3.4	41.9	0.0	7.1	12.2	1.8	2/24/2025 9:15	4.4	51.9	0.0	6.8	12.7	0.0	8.0
2/24/2025 9:30	3.4	42.0	0.0	7.1	12.2	1.2	2/24/2025 9:30	4.4	52.0	0.0	6.8	12.7	0.0	8.0
2/24/2025 9:45	3.4	41.9	0.0	7.1	12.2	1.2	2/24/2025 9:45	4.4	52.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 10:00	3.4	42.0	0.0	7.1	12.2	1.0	2/24/2025 10:00	4.4	52.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 10:15	3.5	41.9	0.0	7.1	12.2	1.2	2/24/2025 10:15	4.5	52.1	0.0	6.8	12.7	0.0	8.0
2/24/2025 10:30	3.5	41.9	0.0	7.1	12.2	0.5	2/24/2025 10:30	4.5	52.1	0.0	6.8	12.8	0.0	8.0
2/24/2025 10:45	3.5	42.1	0.0	7.0	12.2	0.9	2/24/2025 10:45	4.5	52.2	0.0	6.8	12.8	0.0	8.0
2/24/2025 11:00	3.5	42.2	0.0	7.0	12.2	1.2	2/24/2025 11:00	4.5	52.5	0.0	6.8	12.7	0.0	0.0
2/24/2025 11:15	3.6	42.1	0.0	7.1	12.2	1.8	2/24/2025 11:15	4.6	52.3	0.0	6.8	12.7	0.0	8.0
2/24/2025 11:30	3.6	41.8	0.0	7.1	12.2	1.5	2/24/2025 11:30	4.6	51.9	0.0	6.8	12.8	0.0	8.0
2/24/2025 11:45	3.6	41.9	0.0	7.1	12.2	1.8	2/24/2025 11:45	4.6	52.1	0.0	6.8	12.8	0.3	8.3
2/24/2025 12:00	3.7	42.0	0.0	7.1	12.2	1.2	2/24/2025 12:00	4.7	52.4	0.0	6.8	12.7	8.0	16.0
2/24/2025 12:15	3.7	42.3	0.0	7.1	12.2	2.1	2/24/2025 12:15							
2/24/2025 12:30	3.7	42.0	0.0	7.1	12.2	1.9	2/24/2025 12:30							
2/24/2025 12:45	3.7	41.7	0.0	7.1	12.2	1.8	2/24/2025 12:45							
2/24/2025 13:00	4.7	0.1	0.0	7.1	11.8	0.2	2/24/2025 13:00							
2/24/2025 13:15							2/24/2025 13:15							
2/24/2025 13:30							2/24/2025 13:30							
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2/24/2025 18:30							2/24/2025 18:30							
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2/24/2025 23:00							2/24/2025 23:00							
2/24/2025 23:15							2/24/2025 23:15							
2/24/2025 23:30							2/24/2025 23:30							
2/24/2025 23:45							2/24/2025 23:45							
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2/25/2025 0:15							2/25/2025 0:15							
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2/25/2025 0:45							2/25/2025 0:45							
2/25/2025 1:00							2/25/2025 1:00							
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2/25/2025 2:00							2/25/2025 2:00							
2/25/2025 2:15							2/25/2025 2:15							
2/25/2025 2:30							2/25/2025 2:30							
2/25/2025 2:45							2/25/2025 2:45							
2/25/2025 3:00							2/25/2025 3:00							
2/25/2025 3:15							2/25/2025 3:15							
2/25/2025 3:30							2/25/2025 3:30							
2/25/2025 3:45							2/25/2025 3:45							
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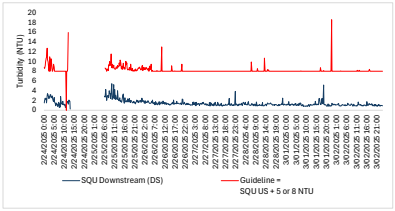
2/25/2025 4:15							2/25/2025 4:15							
2/25/2025 4:30							2/25/2025 4:30							
2/25/2025 4:45							2/25/2025 4:45							
2/25/2025 5:00							2/25/2025 5:00							
2/25/2025 5:15							2/25/2025 5:15							
2/25/2025 5:30							2/25/2025 5:30							
2/25/2025 5:45							2/25/2025 5:45							
2/25/2025 6:00	3.6	39.9	0.0	6.9	13.7	2.8	2/25/2025 6:00	3.6	40.8	0.0	7.2	14.6	0.9	
2/25/2025 6:15	3.6	40.0	0.0	6.9	13.7	2.6	2/25/2025 6:15	3.6	40.9	0.0	7.2	14.6	0.6	8.6



2/25/2025 6:30	3.6	40.4	0.0	6.9	13.7	4.2	2/25/2025 6:30	3.6	42.2	0.0	7.2	14.6	0.4	8.4
2/25/2025 6:45	3.6	42.0	0.0	6.9	13.7	3.5	2/25/2025 6:45	3.7	44.1	0.0	7.2	14.5	0.5	8.5
2/25/2025 7:00	3.7	43.1	0.0	6.9	13.7	2.0	2/25/2025 7:00	3.7	44.5	0.0	7.2	14.6	0.0	8.0
2/25/2025 7:15	3.7	43.7	0.0	6.9	13.7	2.4	2/25/2025 7:15	3.7	45.7	0.0	7.2	14.5	0.2	8.2
2/25/2025 7:30	3.6	44.2	0.0	6.9	13.7	3.0	2/25/2025 7:30	3.7	46.2	0.0	7.2	14.5	0.4	8.4
2/25/2025 7:45	3.6	44.5	0.0	6.9	13.7	2.8	2/25/2025 7:45	3.7	46.2	0.0	7.2	14.5	0.1	8.1
2/25/2025 8:00	3.6	44.1	0.0	6.9	13.7	2.5	2/25/2025 8:00	3.7	46.5	0.0	7.2	14.6	1.3	9.3
2/25/2025 8:15	3.6	44.4	0.0	6.9	13.7	4.0	2/25/2025 8:15	3.7	48.0	0.0	7.2	14.5	1.1	9.1
2/25/2025 8:30	3.6	45.2	0.0	6.9	13.7	3.5	2/25/2025 8:30	3.7	49.0	0.0	7.1	14.3	1.9	9.9
2/25/2025 8:45	3.6	45.2	0.0	6.9	13.7	3.3	2/25/2025 8:45	3.7	49.6	0.0	7.1	14.4	1.1	9.1
2/25/2025 9:00	3.6	44.8	0.0	6.8	13.6	2.4	2/25/2025 9:00	3.7	48.9	0.0	7.1	14.4	1.6	9.6
2/25/2025 9:15	3.6	44.1	0.0	6.9	13.7	3.7	2/25/2025 9:15	3.7	47.3	0.0	7.1	14.4	3.5	11.5
2/25/2025 9:30	3.6	43.8	0.0	6.9	13.7	5.4	2/25/2025 9:30	3.6	46.4	0.0	7.1	14.5	0.7	8.7
2/25/2025 9:45	3.6	44.0	0.0	6.9	13.7	2.2	2/25/2025 9:45	3.6	45.9	0.0	7.1	14.5	1.4	9.4
2/25/2025 10:00	3.6	43.4	0.0	6.9	13.7	2.8	2/25/2025 10:00	3.6	45.0	0.0	7.1	14.6	0.6	8.6
2/25/2025 10:15	3.6	47.3	0.0	7.0	13.8	2.6	2/25/2025 10:15	3.7	44.9	0.0	7.1	14.6	0.6	8.6
2/25/2025 10:30	3.6	43.9	0.0	6.9	13.8	5.2	2/25/2025 10:30	3.7	44.1	0.0	7.1	14.6	1.2	9.2
2/25/2025 10:45	3.6	41.5	0.0	6.8	13.8	2.4	2/25/2025 10:45	3.7	44.1	0.0	7.1	14.6	0.7	8.7
2/25/2025 11:00	3.7	41.5	0.0	6.9	13.8	4.2	2/25/2025 11:00	3.7	43.5	0.0	7.1	14.7	0.4	8.4
2/25/2025 11:15	3.7	41.2	0.0	7.0	13.8	2.2	2/25/2025 11:15	3.8	43.5	0.0	7.1	14.7	0.4	8.4
2/25/2025 11:30	3.7	41.0	0.0	6.9	13.8	3.0	2/25/2025 11:30	3.8	43.1	0.0	7.1	14.7	0.4	8.4
2/25/2025 11:45	3.8	40.6	0.0	6.9	13.9	2.4	2/25/2025 11:45	3.8	42.8	0.0	7.1	14.7	0.9	8.9
2/25/2025 12:00	3.8	40.7	0.0	6.9	13.9	2.3	2/25/2025 12:00	3.9	42.5	0.0	7.2	14.7	0.7	8.7
2/25/2025 12:15	3.9	40.5	0.0	7.0	13.9	2.1	2/25/2025 12:15	4.0	42.6	0.0	7.2	14.7	0.5	8.5
2/25/2025 12:30	4.0	40.4	0.0	6.9	13.9	3.9	2/25/2025 12:30	4.1	42.4	0.0	7.2	14.7	1.2	9.2
2/25/2025 12:45	4.0	40.2	0.0	7.0	13.9	2.2	2/25/2025 12:45	4.1	42.1	0.0	7.2	14.7	0.8	8.8
2/25/2025 13:00	4.1	40.2	0.0	6.9	13.9	1.9	2/25/2025 13:00	4.2	42.0	0.0	7.2	14.7	1.0	9.0
2/25/2025 13:15	4.1	40.0	0.0	7.0	13.9	2.0	2/25/2025 13:15	4.1	41.5	0.0	7.2	14.7	1.7	9.7
2/25/2025 13:30	4.1	40.0	0.0	7.0	13.9	2.5	2/25/2025 13:30	4.2	42.0	0.0	7.2	14.7	1.1	9.1
2/25/2025 13:45	4.1	40.1	0.0	6.8	13.8	1.8	2/25/2025 13:45	4.2	42.0	0.0	7.2	14.7	2.3	10.3
2/25/2025 14:00	4.2	40.2	0.0	6.9	13.9	1.9	2/25/2025 14:00	4.3	41.8	0.0	7.2	14.7	1.7	9.7
2/25/2025 14:15	4.2	39.7	0.0	7.0	13.9	1.6	2/25/2025 14:15	4.3	41.3	0.0	7.2	14.7	0.5	8.5
2/25/2025 14:30	4.2	39.8	0.0	6.9	13.9	1.7	2/25/2025 14:30	4.3	42.6	0.0	7.2	14.7	0.6	8.6
2/25/2025 14:45	4.2	40.2	0.0	6.9	13.8	2.4	2/25/2025 14:45	4.3	42.0	0.0	7.1	14.7	1.0	9.0
2/25/2025 15:00	4.2	40.2	0.0	6.9	13.8	3.0	2/25/2025 15:00	4.3	43.2	0.0	7.1	14.7	0.3	8.3
2/25/2025 15:15	4.3	40.6	0.0	6.8	13.8	3.3	2/25/2025 15:15	4.4	42.4	0.0	7.2	14.7	1.6	9.6
2/25/2025 15:30	4.3	40.4	0.0	7.0	13.8	1.9	2/25/2025 15:30	4.4	42.6	0.0	7.2	14.7	0.6	8.6
2/25/2025 15:45	4.3	40.2	0.0	7.0	13.8	1.4	2/25/2025 15:45	4.4	42.8	0.0	7.2	14.6	0.8	8.8
2/25/2025 16:00	4.3	41.0	0.0	6.9	13.8	2.5	2/25/2025 16:00	4.4	44.4	0.0	7.1	14.6	0.4	8.4
2/25/2025 16:15	4.4	41.6	0.0	6.9	13.8	1.8	2/25/2025 16:15	4.5	44.2	0.0	7.1	14.6	0.7	8.7
2/25/2025 16:30	4.4	41.7	0.0	6.9	13.8	1.6	2/25/2025 16:30	4.5	44.5	0.0	7.1	14.6	2.0	10.0
2/25/2025 16:45	4.5	41.9	0.0	6.9	13.7	1.8	2/25/2025 16:45	4.5	44.3	0.0	7.1	14.6	1.3	9.3
2/25/2025 17:00	4.5	41.5	0.0	6.9	13.7	1.9	2/25/2025 17:00	4.6	44.2	0.0	7.1	14.5	1.7	9.7
2/25/2025 17:15	4.5	41.6	0.0	7.0	13.7	1.7	2/25/2025 17:15	4.5	44.6	0.0	7.1	14.5	0.5	8.5
2/25/2025 17:30	4.5	42.0	0.0	6.9	13.7	2.3	2/25/2025 17:30	4.5	44.9	0.0	7.1	14.5	0.3	8.3
2/25/2025 17:45	4.4	42.3	0.0	7.0	13.7	2.0	2/25/2025 17:45	4.5	45.3	0.0	7.1	14.5	0.3	8.3
2/25/2025 18:00	4.4	42.6	0.0	7.0	13.7	1.7	2/25/2025 18:00	4.5	46.0	0.0	7.1	14.5	0.3	8.3
2/25/2025 18:15	4.4	42.8	0.0	7.0	13.7	2.4	2/25/2025 18:15	4.4	45.4	0.0	7.1	14.5	0.7	8.7
2/25/2025 18:30	4.4	42.8	0.0	7.0	13.7	1.8	2/25/2025 18:30	4.4	45.4	0.0	7.1	14.5	0.1	8.1
2/25/2025 18:45	4.3	42.3	0.0	7.0	13.6	1.5	2/25/2025 18:45	4.4	44.3	0.0	7.1	14.5	0.3	8.3
2/25/2025 19:00	4.3	42.6	0.0	7.0	13.6	2.0	2/25/2025 19:00	4.4	45.0	0.0	7.1	14.5	1.4	9.4
2/25/2025 19:15	4.3	42.1	0.0	6.9	13.6	1.9	2/25/2025 19:15	4.4	44.8	0.0	7.1	14.4	0.1	8.1
2/25/2025 19:30	4.3	42.5	0.0	7.0	13.6	1.6	2/25/2025 19:30	4.3	45.1	0.0	7.1	14.4	0.1	8.1
2/25/2025 19:45	4.3	42.9	0.0	7.0	13.6	1.5	2/25/2025 19:45	4.3	45.2	0.0	7.0	14.4	0.6	8.6
2/25/2025 20:00	4.3	43.2	0.0	7.0	13.6	1.4	2/25/2025 20:00	4.3	45.9	0.0	7.1	14.4	0.0	8.0
2/25/2025 20:15	4.3	43.4	0.0	7.0	13.6	1.5	2/25/2025 20:15	4.3	45.2	0.0	7.0	14.4	0.0	8.0
2/25/2025 20:30	4.3	43.3	0.0	7.0	13.6	1.8	2/25/2025 20:30	4.3	45.6	0.0	7.0	14.4	0.2	8.2
2/25/2025 20:45	4.3	43.4	0.0	7.0	13.6	1.4	2/25/2025 20:45	4.3	46.1	0.0	7.1	14.4	0.2	8.2
2/25/2025 21:00	4.3	43.8	0.0	7.0	13.6	1.5	2/25/2025 21:00	4.3	46.0	0.0	7.0	14.4	0.0	8.0
2/25/2025 21:15	4.3	43.4	0.0	6.9	13.6	1.2	2/25/2025 21:15	4.3	46.5	0.0	7.0	14.4	0.5	8.5
2/25/2025 21:30	4.3	43.4	0.0	7.0	13.6	1.6	2/25/2025 21:30	4.3	47.0	0.0	7.0	14.4	0.4	8.4
2/25/2025 21:45	4.3	43.6	0.0	6.9	13.5	1.7	2/25/2025 21:45	4.3	45.8	0.0	7.0	14.4	0.0	8.0
2/25/2025 22:00	4.3	43.8	0.0	7.0	13.5	2.1	2/25/2025 22:00	4.3	46.1	0.0	7.0	14.4	0.2	8.2
2/25/2025 22:15	4.3	43.4	0.0	6.9	13.5	1.7	2/25/2025 22:15	4.3	45.7	0.0	7.0	14.4	0.1	8.1
2/25/2025 22:30	4.3	43.4	0.0	7.0	13.5	1.9	2/25/2025 22:30	4.3	46.3	0.0	7.1	14.4	0.5	8.5
2/25/2025 22:45	4.3	43.8	0.0	7.0	13.5	1.5	2/25/2025 22:45	4.3	46.5	0.0	7.0	14.4	0.6	8.6
2/25/2025 23:00	4.3	43.6	0.0	6.9	13.5	1.6	2/25/2025 23:00	4.3	46.0	0.0	7.1	14.4	0.6	8.6
2/25/2025 23:15	4.3	43.4	0.0	7.0	13.5	1.8	2/25/2025 23:15	4.3	46.5	0.0	7.0	14.4	0.8	8.8
2/25/2025 23:30	4.3	43.6	0.0	6.8	13.5	1.9	2/25/2025 23:30	4.3	46.9	0.0	7.0	14.4	0.7	8.7
2/25/2025 23:45	4.3	43.4	0.0	7.0	13.5	2.0	2/25/2025 23:45	4.3	46.5	0.0	7.0	14.4	0.5	8.5
2/26/2025 0:00	4.3	43.3	0.0	7.0	13.5	1.6	2/26/2025 0:00	4.3	46.4	0.0	7.0	14.4	0.3	8.3
2/26/2025 0:15	4.3	43.3	0.0	7.0	13.5	1.7	2/26/2025 0:15	4.3	46.0	0.0	7.0	14.4	0.4	8.4
2/26/2025 0:30	4.3	43.8	0.0	7.0	13.5	2.4	2/26/2025 0:30	4.3	46.3	0.0	7.0	14.4	1.0	9.0
2/26/2025 0:45	4.3	43.3	0.0	7.0	13.5	1.8	2/26/2025 0:45	4.3	46.2	0.0	7.1	14.4	1.2	9.2
2/26/2025 1:00	4.3	43.5	0.0	7.0	13.5	1.9	2/26/2025 1:00	4.3	45.9	0.0	7.0	14.4	0.1	8.1
2/26/2025 1:15	4.3	43.5	0.0	7.0	13.5	1.9	2/26/2025 1:15	4.3	46.8	0.0	7.1	14.4	0.8	8.8
2/26/2025 1:30	4.3	43.5	0.0	7.0	13.5	1.6	2/26/2025 1:30	4.3	46.3	0.0	7.0	14.4	0.3	8.3
2/26/2025 1:45	4.3	43.3	0.0	7.0	13.5	1.4	2/26/2025 1:45	4.3	45.8	0.0	7.1	14.4	0.7	8.7
2/26/2025 2:00	4.3	43.1	0.0	7.0	13.5	1.9	2/26/2025 2:00	4.3	45.6	0.0	7.0	14.4	0.3	8.3
2/26/2025 2:15	4.3	43.6	0.0	7.0	13.5	1.4	2/26/2025 2:15	4.2	46.1	0.0	7.0	14.4	0.4	8.4
2/26/2025 2:30	4.3	43.4	0.0	6.9	13.5	1.7	2/26/2025 2:30	4.2	45.9	0.0	7.0	14.4	0.8	8.8
2/26/2025 2:45	4.3	43.4	0.0	7.0	13.5	1.6	2/26/2025 2:45	4.2	45.4	0.0	7.0	14.4	0.6	8.6
2/26/2025 3:00	4.2	43.0	0.0	7.0	13.5	1.5	2/26/2025 3:00	4.2	45.8	0.0	7.0	14.4	0.5	8.5
2/26/2025 3:15	4.2	43.2	0.0	7.0	13.5	1.6	2/26/2025 3:15	4.2	45.5	0.0	7.0	14.4	0.2	8.2
2/26/2025 3:30	4.2	43.3	0.0	7.0	13.5	1.9	2/26/2025 3:30	4.2	45.6	0.0	7.1	14.4	0.4	8.4
2/26/2025 3:45	4.2	43.2	0.0	7.0	13.6	1.7	2/26/2025 3:45	4.2	45.4	0.0	7.1	14.4	0.6	8.6
2/26/2025 4:00	4.2	43.2	0.0	7.0	13.6	1.5	2/26/2025 4:00	4.2	44.8	0.0	7.1	14.4	0.0	8.0
2/26/2025 4:15	4.2	42.7	0.0	7.0	13.6	1.4	2/26/2025 4:15	4.1	44.6	0.0	7.1	14.4	1.0	9.0
2/26/2025 4:30	4.2	42.7	0.0	7.0	13.6	1.4	2/26/2025 4:30	4.1	44.0	0.0	7.1	14.5	0.3	8.3
2/26/2025 4:45	4.2	42.3	0.0	7.0	13.6	1.4	2/26/2025 4:45	4.1	43.5	0.0	7.1	14.5	0.4	8.4
2/26/2025 5:00	4.2	42.1	0.0	7.0	13.6	1.5	2/26/2025 5:00	4.1	43.1	0.0	7.1	14.5	1.4	9.4
2/26/2025 5:15	4.1	42.2	0.0	6.8	13.6	1.7	2/26/2025 5:15	4.1	44.4	0.0	7.1	14.5	0.0	8.0
2/26/2025 5:30	4.1	42.6	0.0	7.0	13.6	1.5	2/26/2025 5:30	4.1	44.7	0.0	7.1	14.5	0.2	8.2
2/26/2025 5:45	4.1	42.8	0.0	7.0	13.6	2.1	2/26/2025 5:45	4.1	43.5	0.0	7.1	14.5	0.0	8.0
2/26/2025 6:00	4.1	42.2	0.0	6.8	13.6	1.3	2/26/2025 6:00	4.1	43.3	0.0	7.2	14.5	0.0	8.0
2/26/2025 6:15	4.1	42.4	0.0	6.9	13.6	1.5	2/26/2025 6:15	4.0	45.2	0.0	7.1	14.5	0.0	8.0
2/26/2025 6:30	4.1	43.4	0.0	7.0	13.6	1.2	2/26/2025 6:30	4.0	45.3	0.0	7.2	14.5	0.0	8.0
2/26/2025 6:45	4.0	43.3	0.0	7.0	13.7	1.5	2/26/2025 6:45	4.0	44.8	0.0	7.1	14.5	0.0	8.0
2/26/2025 7:00	4.0	43.0	0.0	7.0	13.7	1.1	2/26/2025 7:00	4.0	44.5	0.0	7.1	14.6	0.0	8.0
2/26/2025 7:15	4.0	43.0	0.0	6.9	13.7	1.7	2/26/2025 7:15	4.0	46.0	0.0	7.1	14.5	0.0	8.0
2/26/2025 7:30	4.0	43.9	0.0	6.8	13.7	1.1	2/26/2025 7:30	3.9	46.0	0.0	7.2	14.6	0.0	8.0
2/26/2025 7:45	4.0	44.3	0.0	7.0	13.7	1.4	2/26/2025 7:45	4.0	50.7	0.0	7.1	14.4	0.0	8.0
2/26/2025 8:00	4.0	46.3	0.0	7.0	13.6	1.5	2/26/2025 8:00	3.9	48.6	0.0	7.1	14.4	0.1	8.1
2/26/2025 8:15	3.9	44.8	0.0	7.0	13.6	1.1	2/26/2025 8:15	3.9	46.8	0.0	7.1	14.4	0.0	8.0
2/26/2025 8:30	3.9	44.7	0.0	7.0	13.6	1.2	2/26/2025 8:30	3.9	49.7	0.0	7.1	14.4	0.0	8.0
2/26/2025 8:45	3.9	46.5	0.0	7.0	13.6	1.2	2/26/2025 8:45	3.9	52.0	0.0	7.1	14.4	0.0	8.0
2/26/2025 9:00	3.9	47.9	0.0	7.0	13.6	1.7	2/26/2025 9:00	3.9	51.4	0.0	7.1	14.4	0.0	8.0
2/26/2025 9:15	4.0	47.3	0.0	7.0	13.6	1.0	2/26/2025 9:15	3.9	49.0	0.0	7.1	14.4	0.0	8.0
2/26/2025 9:30	3.9	46.0	0.0	7.0	13.6	1.3	2/26/2025 9:30	3.9	47.8	0.0	7.1	14.5	0.0	8.0
2/26/2025 9:45	3.9	45.4	0.0	7.0	13.6	1.3	2/26/2025 9:45	3.9	49.8	0.0	7.1	14.4	0.0	8.0
2/26/2025 10:00	4.0	47.0	0.0	7.0	13.6	1.6	2/26/2025 10:00	4.0	51.2	0.0	7.1	14.4	0.0	8.0
2/26/2025 10:15	4.0	47.6	0.0	7.0	13.6	1.5	2/26/2025 10:15	4.0	50.9	0.0	7.0	14.4	5.0	13.0
2/26/2025 10:30	4.0	47.1	0.0	7.0	13.6	1.2	2/26/2025 10:30	4.0	49.3	0.0	7.0	14.5	0.0	8.0
2/26/2025 10:45	4.0	45.9	0.0	7.0	13.6	1.4	2/26/2025 10:45	4.0	47.8	0.0	7.1	14.5	0.0	8.0
2/26/2025 11:00	4.0	45.4	0.0	7.0	13.6	1.8	2/26/2025 11:00	4.0	48.1	0.0	7.1	14.5	0.0	8.0
2/26/2025 11:15	4.1	45.7	0.0	7.0	13.6	1.3	2/26/2025 11:15	4.1	48.1	0.0	7.0	14.5	0.0	8.0
2/26/2025 11:30	4.1	45.8	0.0	7.0	13.6	1.5	2/26/2025 11:30	4.1	48.0	0.0	7.1	14.5	0.0	8.0
2/26/2025 11:45	4.2	45.5	0.0	7.0	13.7	1.2	2/26/2025 11:45	4.2	47.4	0.0	7.1	14.5	0.0	8.0
2/26/2025 12:00	4.3	45.5	0.0	7.0	13.7	1.5	2/26/2025 12:00	4.3	47.5	0.0	7.1	14.5	0.0	8.0
2/26/2025 12:15	4.3	45.3	0.0	7.0	13.6	1.4	2/26/2025 12:15	4.3	47.6	0.0	7.1	14.5	0.0	8.0
2/26/2025 12:30	4.3	45.4	0.0	7.0	13.6	1.1	2/26/2025 12:30	4.4	48.2	0.0	7.1	14.5	0.0	8.0
2/26/2025 12:45	4.4	45.4	0.0	7.0	13.7	1.5	2/26/2025 12:45	4.4	47.8	0.0	7.1	14.5	0.0	8.0
2/26/2025 13:00	4.5	45.2	0.0	7.0	13.6	1.3	2/26/2025 13:00	4.5	47.5	0.0	7.1	14.5	0.0	8.0
2/26/2025 13:15	4.5	45.4	0.0	7.0	13.7	1.3	2/26/2025 13:15	4.6	47.5	0.0	7.1	14.5	0.0	8.0
2/26/2025 13:30	4.6	45.6	0.0	7.0	13.6	1.3	2/26/2025 13:30	4.6	47.4	0.0	7.1	14.5	0.0	8.0
2/26/2025 13:45	4.6	45.8	0.0	7.0	13.6	1.1	2/26/2025 13:45	4.6	47.6	0.0	7.1	14.5	0.0	8.0
2/26/2025 14:00	4.6	46.0	0.0	7.0	13.6	1.2	2/26/2025 14:00	4.7	48.2	0.0	7.1	14.5	0.0	8.0

2/26/2025 14:15	4.7	45.7	0.0	7.0	13.6	1.0	2/26/2025 14:15	4.7	47.7	0.0	7.1	14.5	0.0	8.0
2/26/2025 14:30	4.7	45.5	0.0	7.0	13.6	1.2	2/26/2025 14:30	4.7	48.1	0.0	7.1	14.5	0.0	8.0
2/26/2025 14:45	4.7	45.2	0.0	7.0	13.6	1.0	2/26/2025 14:45	4.7	48.0	0.0	7.1	14.5	0.0	8.0
2/26/2025 15:00	4.7	45.3	0.0	7.0	13.6	1.2	2/26/2025 15:00	4.7	47.3	0.0	7.1	14.5	0.0	8.0
2/26/2025 15:15	4.7	44.9	0.0	7.0	13.7	1.4	2/26/2025 15:15	4.7	46.9	0.0	7.1	14.5	1.1	9.1
2/26/2025 15:30	4.7	44.2	0.0	7.0	13.7	1.4	2/26/2025 15:30	4.7	45.6	0.0	7.2	14.5	0.0	8.0
2/26/2025 15:45	4.7	43.8	0.0	6.8	13.7	1.6	2/26/2025 15:45	4.7	45.4	0.0	7.2	14.5	0.0	8.0
2/26/2025 16:00	4.6	43.8	0.0	7.0	13.7	1.2	2/26/2025 16:00	4.6	45.6	0.0	7.2	14.6	0.0	8.0
2/26/2025 16:15	4.6	44.1	0.0	7.0	13.7	2.0	2/26/2025 16:15	4.6	45.9	0.0	7.2	14.5	0.0	8.0
2/26/2025 16:30	4.7	44.2	0.0	7.1	13.7	1.2	2/26/2025 16:30	4.7	49.6	0.0	7.1	14.4	0.0	8.0
2/26/2025 16:45	4.7	46.3	0.0	7.0	13.6	1.3	2/26/2025 16:45	4.7	49.7	0.0	7.1	14.4	0.0	8.0
2/26/2025 17:00	4.7	45.7	0.0	7.0	13.6	1.4	2/26/2025 17:00	4.7	46.8	0.0	7.1	14.5	0.0	8.0
2/26/2025 17:15	4.7	44.9	0.0	7.1	13.6	1.4	2/26/2025 17:15	4.7	47.7	0.0	7.1	14.5	0.0	8.0
2/26/2025 17:30	4.7	46.4	0.0	7.0	13.6	1.3	2/26/2025 17:30	4.7	51.1	0.0	7.1	14.4	0.0	8.0
2/26/2025 17:45	4.7	48.0	0.0	7.0	13.6	1.8	2/26/2025 17:45	4.7	51.4	0.0	7.1	14.4	0.0	8.0
2/26/2025 18:00	4.7	47.9	0.0	7.0	13.6	1.3	2/26/2025 18:00	4.7	50.9	0.0	7.1	14.3	0.0	8.0
2/26/2025 18:15	4.7	47.5	0.0	7.1	13.6	1.4	2/26/2025 18:15	4.6	49.5	0.0	7.1	14.4	0.0	8.0
2/26/2025 18:30	4.6	48.3	0.0	7.1	13.5	1.4	2/26/2025 18:30	4.7	52.0	0.0	7.1	14.3	0.0	8.0
2/26/2025 18:45	4.6	49.0	0.0	7.0	13.5	1.3	2/26/2025 18:45	4.7	53.5	0.0	7.1	14.3	0.0	8.0
2/26/2025 19:00	4.6	49.6	0.0	7.0	13.5	1.3	2/26/2025 19:00	4.7	54.0	0.0	7.1	14.2	0.0	8.0
2/26/2025 19:15	4.6	49.5	0.0	7.0	13.5	1.2	2/26/2025 19:15	4.6	52.4	0.0	7.1	14.3	0.0	8.0
2/26/2025 19:30	4.6	49.1	0.0	7.0	13.5	1.2	2/26/2025 19:30	4.5	50.5	0.0	7.1	14.3	0.0	8.0
2/26/2025 19:45	4.6	48.8	0.0	7.0	13.5	1.4	2/26/2025 19:45	4.5	50.9	0.0	7.1	14.3	0.0	8.0
2/26/2025 20:00	4.6	48.5	0.0	7.0	13.5	1.1	2/26/2025 20:00	4.5	50.4	0.0	7.1	14.3	0.0	8.0
2/26/2025 20:15	4.5	48.6	0.0	7.1	13.5	1.2	2/26/2025 20:15	4.5	50.9	0.0	7.1	14.3	1.4	9.4
2/26/2025 20:30	4.5	48.8	0.0	7.0	13.4	2.2	2/26/2025 20:30	4.5	50.5	0.0	7.1	14.3	0.0	8.0
2/26/2025 20:45	4.5	48.9	0.0	7.0	13.4	2.2	2/26/2025 20:45	4.5	50.6	0.0	7.1	14.3	0.0	8.0
2/26/2025 21:00	4.5	48.8	0.0	7.0	13.4	1.2	2/26/2025 21:00	4.5	51.0	0.0	7.1	14.2	0.0	8.0
2/26/2025 21:15	4.5	49.0	0.0	7.0	13.4	1.2	2/26/2025 21:15	4.5	51.5	0.0	7.1	14.2	0.0	8.0
2/26/2025 21:30	4.5	49.0	0.0	7.0	13.4	1.6	2/26/2025 21:30	4.5	50.9	0.0	7.1	14.2	0.0	8.0
2/26/2025 21:45	4.5	49.0	0.0	7.0	13.4	1.3	2/26/2025 21:45	4.4	51.3	0.0	7.1	14.2	0.0	8.0
2/26/2025 22:00	4.5	49.0	0.0	7.0	13.4	1.2	2/26/2025 22:00	4.4	51.5	0.0	7.1	14.2	0.0	8.0
2/26/2025 22:15	4.4	49.0	0.0	7.0	13.5	1.0	2/26/2025 22:15	4.4	51.5	0.0	7.1	14.2	0.0	8.0
2/26/2025 22:30	4.4	49.2	0.0	7.0	13.4	1.2	2/26/2025 22:30	4.4	50.6	0.0	7.1	14.3	0.0	8.0
2/26/2025 22:45	4.4	49.3	0.0	7.0	13.4	1.4	2/26/2025 22:45	4.4	51.6	0.0	7.1	14.2	0.0	8.0
2/26/2025 23:00	4.4	49.2	0.0	7.0	13.4	1.1	2/26/2025 23:00	4.4	51.6	0.0	7.1	14.2	0.0	8.0
2/26/2025 23:15	4.4	49.2	0.0	7.0	13.4	1.4	2/26/2025 23:15	4.3	51.0	0.0	7.1	14.3	0.0	8.0
2/26/2025 23:30	4.3	49.2	0.0	7.0	13.4	1.1	2/26/2025 23:30	4.3	51.3	0.0	7.1	14.3	0.0	8.0
2/26/2025 23:45	4.3	49.4	0.0	7.0	13.5	1.2	2/26/2025 23:45	4.3	51.5	0.0	7.1	14.3	0.0	8.0
2/27/2025 0:00	4.3	49.2	0.0	7.0	13.5	1.1	2/27/2025 0:00	4.3	52.1	0.0	7.1	14.3	0.0	8.0
2/27/2025 0:15	4.3	48.9	0.0	7.0	13.5	1.2	2/27/2025 0:15	4.2	50.7	0.0	7.1	14.3	0.0	8.0
2/27/2025 0:30	4.2	49.5	0.0	7.0	13.5	1.0	2/27/2025 0:30	4.2	52.0	0.0	7.1	14.3	0.0	8.0
2/27/2025 0:45	4.2	49.2	0.0	7.0	13.5	1.0	2/27/2025 0:45	4.2	50.9	0.0	7.1	14.3	0.0	8.0
2/27/2025 1:00	4.2	49.3	0.0	7.0	13.5	1.0	2/27/2025 1:00	4.1	51.0	0.0	7.1	14.3	0.0	8.0
2/27/2025 1:15	4.2	49.1	0.0	7.0	13.5	1.1	2/27/2025 1:15	4.1	52.3	0.0	7.1	14.3	0.0	8.0
2/27/2025 1:30	4.1	49.1	0.0	7.0	13.5	1.0	2/27/2025 1:30	4.1	51.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 1:45	4.1	49.2	0.0	7.0	13.5	1.6	2/27/2025 1:45	4.1	51.4	0.0	7.1	14.3	0.0	8.0
2/27/2025 2:00	4.1	48.7	0.0	7.0	13.5	1.1	2/27/2025 2:00	4.0	51.6	0.0	7.1	14.3	0.0	8.0
2/27/2025 2:15	4.0	48.7	0.0	7.0	13.5	1.6	2/27/2025 2:15	4.0	51.3	0.0	7.1	14.3	0.0	8.0
2/27/2025 2:30	4.0	49.3	0.0	7.0	13.5	1.2	2/27/2025 2:30	4.0	51.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 2:45	4.0	48.8	0.0	7.0	13.5	1.1	2/27/2025 2:45	3.9	50.7	0.0	7.1	14.3	0.0	8.0
2/27/2025 3:00	4.0	49.1	0.0	7.0	13.5	1.5	2/27/2025 3:00	3.9	50.8	0.0	7.1	14.4	0.0	8.0
2/27/2025 3:15	4.0	49.0	0.0	7.0	13.5	0.9	2/27/2025 3:15	3.9	50.9	0.0	7.1	14.4	0.0	8.0
2/27/2025 3:30	3.9	48.8	0.0	7.0	13.5	1.6	2/27/2025 3:30	3.9	51.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 3:45	3.9	48.7	0.0	7.0	13.5	1.1	2/27/2025 3:45	3.9	50.6	0.0	7.1	14.4	0.0	8.0
2/27/2025 4:00	3.9	49.1	0.0	7.1	13.5	1.2	2/27/2025 4:00	3.9	50.8	0.0	7.1	14.4	0.0	8.0
2/27/2025 4:15	3.9	49.0	0.0	7.0	13.5	1.3	2/27/2025 4:15	3.8	50.7	0.0	7.1	14.4	0.0	8.0
2/27/2025 4:30	3.9	48.7	0.0	7.1	13.6	1.3	2/27/2025 4:30	3.8	50.6	0.0	7.1	14.4	0.0	8.0
2/27/2025 4:45	3.9	48.7	0.0	7.0	13.6	1.3	2/27/2025 4:45	3.8	50.1	0.0	7.2	14.4	0.0	8.0
2/27/2025 5:00	3.9	48.4	0.0	7.1	13.6	0.9	2/27/2025 5:00	3.8	49.7	0.0	7.2	14.4	0.0	8.0
2/27/2025 5:15	3.8	48.4	0.0	7.0	13.6	1.2	2/27/2025 5:15	3.8	49.6	0.0	7.1	14.4	0.0	8.0
2/27/2025 5:30	3.8	48.2	0.0	7.1	13.6	1.3	2/27/2025 5:30	3.8	49.2	0.0	7.1	14.5	0.0	8.0
2/27/2025 5:45	3.8	48.1	0.0	7.1	13.6	1.4	2/27/2025 5:45	3.8	50.2	0.0	7.2	14.4	0.0	8.0
2/27/2025 6:00	3.8	48.6	0.0	7.1	13.6	1.2	2/27/2025 6:00	3.8	50.2	0.0	7.2	14.4	0.0	8.0
2/27/2025 6:15	3.8	48.8	0.0	7.0	13.6	1.2	2/27/2025 6:15	3.8	49.9	0.0	7.2	14.4	0.0	8.0
2/27/2025 6:30	3.8	48.7	0.0	7.0	13.6	1.5	2/27/2025 6:30	3.8	50.2	0.0	7.2	14.4	0.0	8.0
2/27/2025 6:45	3.8	49.5	0.0	7.1	13.6	1.3	2/27/2025 6:45	3.8	52.8	0.0	7.2	14.4	0.0	8.0
2/27/2025 7:00	3.8	52.3	0.0	7.0	13.6	1.6	2/27/2025 7:00	3.8	51.9	0.0	7.2	14.4	0.0	8.0
2/27/2025 7:15	3.8	49.9	0.0	7.1	13.6	1.3	2/27/2025 7:15	3.8	51.4	0.0	7.2	14.4	0.0	8.0
2/27/2025 7:30	3.8	49.9	0.0	7.1	13.6	1.2	2/27/2025 7:30	3.8	52.9	0.0	7.2	14.4	0.0	8.0
2/27/2025 7:45	3.8	51.1	0.0	7.0	13.6	1.1	2/27/2025 7:45	3.7	52.5	0.0	7.2	14.4	0.0	8.0
2/27/2025 8:00	3.7	50.1	0.0	7.0	13.6	1.1	2/27/2025 8:00	3.7	52.5	0.0	7.2	14.4	0.0	8.0
2/27/2025 8:15	3.7	50.5	0.0	7.0	13.6	1.3	2/27/2025 8:15	3.7	54.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 8:30	3.8	51.8	0.0	7.0	13.6	1.0	2/27/2025 8:30	3.8	55.8	0.0	7.1	14.3	0.0	8.0
2/27/2025 8:45	3.8	52.4	0.0	7.0	13.5	1.0	2/27/2025 8:45	3.8	55.9	0.0	7.1	14.3	0.0	8.0
2/27/2025 9:00	3.8	52.6	0.0	7.0	13.5	1.2	2/27/2025 9:00	3.8	54.8	0.0	7.1	14.3	0.0	8.0
2/27/2025 9:15	3.8	52.3	0.0	7.1	13.5	0.9	2/27/2025 9:15	3.8	56.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 9:30	3.8	54.0	0.0	7.0	13.5	1.0	2/27/2025 9:30	3.9	58.8	0.0	7.1	14.2	0.0	8.0
2/27/2025 9:45	3.8	55.4	0.0	7.0	13.4	0.9	2/27/2025 9:45	3.9	58.7	0.0	7.1	14.2	0.0	8.0
2/27/2025 10:00	3.8	54.6	0.0	7.0	13.5	1.5	2/27/2025 10:00	3.9	57.9	0.0	7.1	14.2	0.0	8.0
2/27/2025 10:15	3.9	54.2	0.0	7.0	13.5	0.8	2/27/2025 10:15	3.9	56.7	0.0	7.1	14.2	0.0	8.0
2/27/2025 10:30	3.9	53.5	0.0	7.0	13.5	1.5	2/27/2025 10:30	3.9	55.9	0.0	7.1	14.3	0.0	8.0
2/27/2025 10:45	3.9	53.1	0.0	7.0	13.5	1.2	2/27/2025 10:45	3.9	55.1	0.0	7.1	14.3	0.0	8.0
2/27/2025 11:00	3.9	52.8	0.0	7.0	13.5	1.3	2/27/2025 11:00	4.0	55.4	0.0	7.1	14.3	0.0	8.0
2/27/2025 11:15	4.0	53.1	0.0	7.0	13.5	0.9	2/27/2025 11:15	4.0	54.9	0.0	7.1	14.3	0.0	8.0
2/27/2025 11:30	4.0	52.9	0.0	7.0	13.5	1.1	2/27/2025 11:30	4.0	54.6	0.0	7.1	14.3	0.0	8.0
2/27/2025 11:45	4.0	52.5	0.0	7.0	13.5	1.1	2/27/2025 11:45	4.1	55.0	0.0	7.1	14.3	0.0	8.0
2/27/2025 12:00	4.1	52.3	0.0	7.0	13.5	0.9	2/27/2025 12:00	4.1	54.2	0.0	7.1	14.4	0.0	8.0
2/27/2025 12:15	4.1	52.0	0.0	7.0	13.5	1.4	2/27/2025 12:15	4.1	54.1	0.0	7.1	14.3	0.0	8.0
2/27/2025 12:30	4.1	51.9	0.0	7.0	13.5	1.0	2/27/2025 12:30	4.2	53.8	0.0	7.1	14.4	0.0	8.0
2/27/2025 12:45	4.2	51.8	0.0	7.0	13.5	1.6	2/27/2025 12:45	4.2	54.5	0.0	7.1	14.3	0.0	8.0
2/27/2025 13:00	4.2	52.0	0.0	7.0	13.5	1.3	2/27/2025 13:00	4.2	54.1	0.0	7.1	14.3	0.0	8.0
2/27/2025 13:15	4.2	51.9	0.0	7.0	13.5	0.9	2/27/2025 13:15	4.2	54.2	0.0	7.1	14.3	0.0	8.0
2/27/2025 13:30	4.2	51.6	0.0	7.0	13.5	0.9	2/27/2025 13:30	4.2	53.9	0.0	7.0	14.3	0.0	8.0
2/27/2025 13:45	4.2	51.5	0.0	7.0	13.5	0.9	2/27/2025 13:45	4.3	54.0	0.0	7.1	14.3	0.0	8.0
2/27/2025 14:00	4.2	51.6	0.0	7.0	13.5	1.6	2/27/2025 14:00	4.3	54.0	0.0	7.0	14.3	0.0	8.0
2/27/2025 14:15	4.2	51.5	0.0	7.0	13.5	1.0	2/27/2025 14:15	4.3	53.4	0.0	7.1	14.4	0.0	8.0
2/27/2025 14:30	4.3	51.2	0.0	7.0	13.5	1.2	2/27/2025 14:30	4.3	53.7	0.0	7.1	14.3	0.0	8.0
2/27/2025 14:45	4.3	51.3	0.0	7.0	13.5	0.9	2/27/2025 14:45	4.3	53.5	0.0	7.1	14.3	0.0	8.0
2/27/2025 15:00	4.3	51.0	0.0	7.0	13.5	0.8	2/27/2025 15:00	4.3	52.8	0.0	7.1	14.4	0.0	8.0
2/27/2025 15:15	4.3	50.8	0.0	7.0	13.5	1.0	2/27/2025 15:15	4.3	53.1	0.0	7.1	14.4	0.0	8.0
2/27/2025 15:30	4.3	50.9	0.0	7.0	13.5	1.0	2/27/2025 15:30	4.4	53.0	0.0	7.1	14.4	0.0	8.0
2/27/2025 15:45	4.3	50.9	0.0	7.0	13.5	1.4	2/27/2025 15:45	4.4	52.9	0.0	7.1	14.4	0.0	8.0
2/27/2025 16:00	4.4	50.6	0.0	7.0	13.5	0.9	2/27/2025 16:00	4.4	52.2	0.0	7.1	14.4	0.0	8.0
2/27/2025 16:15	4.4	50.4	0.0	7.0	13.5	0.9	2/27/2025 16:15	4.4	53.3	0.0	7.1	14.3	0.0	8.0
2/27/2025 16:30	4.4	51.3	0.0	7.0	13.5	0.8	2/27/2025 16:30	4.5	54.7	0.0	7.1	14.3	0.0	8.0
2/27/2025 16:45	4.5	51.4	0.0	7.0	13.5	1.0	2/27/2025 16:45	4.5	52.5	0.0	7.1	14.3	0.0	8.0
2/27/2025 17:00	4.5	50.6	0.0	7.0	13.5	1.0	2/27/2025 17:00	4.5	52.2	0.0	7.1	14.4	0.0	8.0
2/27/2025 17:15	4.5	50.5	0.0	7.0	13.5	1.0	2/27/2025 17:15	4.5	53.5	0.0	7.1	14.3	0.0	8.0
2/27/2025 17:30	4.5	51.1	0.0	7.1	13.5	0.9	2/27/2025 17:30	4.5	53.7	0.0	7.1	14.3	0.0	8.0
2/27/2025 17:45	4.5	51.0	0.0	7.1	13.5	1.0	2/27/2025 17:45	4.5	53.1	0.0	7.1	14.3	0.0	8.0
2/27/2025 18:00	4.5	50.8	0.0	6.9	13.5	1.2	2/27/2025 18:00	4.5	53.8	0.0	7.1	14.3	0.0	8.0
2/27/2025 18:15	4.5	51.6	0.0	7.1	13.5	1.0	2/27/2025 18:15	4.6	56.1	0.0	7.1	14.2	0.0	8.0
2/27/2025 18:30	4.5	53.2	0.0	7.0	13.4	1.0	2/27/2025 18:30	4.6	58.4	0.0	7.1	14.1	0.0	8.0
2/27/2025 18:45	4.6	54.4	0.0	7.0	13.4	1.0	2/27/2025 18:45	4.6	58.9	0.0	7.1	14.1	0.0	8.0
2/27/2025 19:00	4.6	55.1	0.0	7.0	13.3	1.1	2/27/2025 19:00	4.6	60.0	0.0	7.1	14.1	0.0	8.0
2/27/2025 19:15	4.6	55.8	0.0	7.0	13.3	1.3	2/27/2025 19:15	4.6	60.4	0.0	7.0	14.0	0.0	8.0
2/27/2025 19:30	4.6	55.6	0.0	6.9	13.3	1.1	2/27/2025 19:30	4.6	58.5	0.0	7.0	14.1	0.0	8.0
2/27/2025 19:45	4.5	54.0	0.0	7.0	13.3	2.4	2/27/2025 19:45	4.6	56.5	0.0	7.0	14.1	0.0	8.0
2/27/2025 20:00	4.5	53.0	0.0	7.0	13.3	1.0	2/27/2025 20:00	4.6	58.1	0.0	7.0	14.0	0.0	8.0
2/27/2025 20:15	4.5	54.0	0.0	7.0	13.2	0.9	2/27/2025 20:15	4.6	57.6	0.0	7.0	14.0	0.0	8.0
2/27/2025 20:30	4.5	53.7	0.0	7.0	13.3	1.1	2/27/2025 20:30	4.6	56.7	0.0	7.0	14.0	0.0	8.0
2/27/2025 20:45	4.5	52.8	0.0	7.0	13.3	1.3	2/27/2025 20:45	4.5	55.5	0.0	7.0	14.1	0.0	8.0
2/27/2025 21:00	4.5	52.6	0.0	6.9	13.3	1.0	2/27/2025 21:00	4.6	55.6	0.0	7.0	14.0	0.0	8.0
2/27/2025 21:15	4.5	52.7	0.0	7.0	13.3	1.0	2/27/2025 21:15	4.6	55.8	0.0	7.1	14.0	0.0	8.0
2/27/2025 21:30	4.5	52.6	0.0	6.9	13.3	0.9	2/27/2025 21:30	4.6	55.3	0.0	7.1	14.0	0.0	8.0
2/27/2025 21:45	4.5	52.7	0.0	7.0	13.3	1.2	2/27/2025 21:45	4.6	55.8	0.0	7.1	14.0	0.0	8.0

2/27/2025 22:00	4.5	52.6	0.0	7.0	13.2	0.9	2/27/2025 22:00	4.6	55.4	0.0	7.1	14.0	0.0	8.0
2/27/2025 22:15	4.5	52.5	0.0	7.0	13.3	1.0	2/27/2025 22:15	4.6	55.0	0.0	7.0	14.1	0.0	8.0
2/27/2025 22:30	4.5	52.3	0.0	7.0	13.3	1.1	2/27/2025 22:30	4.6	54.8	0.0	7.1	14.1	0.0	8.0
2/27/2025 22:45	4.5	52.4	0.0	7.0	13.3	3.8	2/27/2025 22:45	4.6	55.2	0.0	7.1	14.1	0.0	8.0
2/27/2025 23:00	4.5	52.6	0.0	7.0	13.3	1.0	2/27/2025 23:00	4.6	55.3	0.0	7.0	14.0	0.0	8.0
2/27/2025 23:15	4.5	52.5	0.0	6.9	13.3	1.2	2/27/2025 23:15	4.6	55.3	0.0	7.0	14.1	0.0	8.0
2/27/2025 23:30	4.5	52.3	0.0	7.0	13.3	1.0	2/27/2025 23:30	4.6	55.0	0.0	7.0	14.1	0.0	8.0
2/27/2025 23:45	4.5	51.6	0.0	7.0	13.3	1.0	2/27/2025 23:45	4.6	54.8	0.0	7.0	14.1	0.0	8.0
2/28/2025 0:00	4.5	52.1	0.0	7.0	13.3	0.9	2/28/2025 0:00	4.6	55.5	0.0	7.0	14.1	0.0	8.0
2/28/2025 0:15	4.5	52.3	0.0	7.0	13.3	1.1	2/28/2025 0:15	4.6	55.3	0.0	7.0	14.1	0.0	8.0
2/28/2025 0:30	4.5	51.8	0.0	7.0	13.3	1.0	2/28/2025 0:30	4.5	54.5	0.0	7.1	14.1	0.0	8.0
2/28/2025 0:45	4.5	51.5	0.0	6.9	13.3	1.3	2/28/2025 0:45	4.5	54.4	0.0	7.1	14.1	0.0	8.0
2/28/2025 1:00	4.5	51.4	0.0	7.0	13.3	1.1	2/28/2025 1:00	4.5	53.8	0.0	7.0	14.1	0.0	8.0
2/28/2025 1:15	4.5	51.4	0.0	6.9	13.3	1.0	2/28/2025 1:15	4.6	54.3	0.0	7.0	14.1	0.0	8.0
2/28/2025 1:30	4.5	51.2	0.0	7.0	13.3	1.1	2/28/2025 1:30	4.5	53.8	0.0	7.1	14.1	0.0	8.0
2/28/2025 1:45	4.5	50.5	0.0	7.0	13.4	1.4	2/28/2025 1:45	4.5	53.5	0.0	7.1	14.1	0.0	8.0
2/28/2025 2:00	4.5	50.8	0.0	7.0	13.3	1.0	2/28/2025 2:00	4.5	53.1	0.0	7.0	14.2	0.0	8.0
2/28/2025 2:15	4.5	50.5	0.0	7.0	13.4	0.9	2/28/2025 2:15	4.5	53.0	0.0	7.1	14.2	0.0	8.0
2/28/2025 2:30	4.5	50.6	0.0	7.0	13.4	1.3	2/28/2025 2:30	4.5	53.0	0.0	7.1	14.2	0.0	8.0
2/28/2025 2:45	4.5	50.1	0.0	7.0	13.4	1.6	2/28/2025 2:45	4.5	52.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 3:00	4.5	50.3	0.0	7.0	13.4	1.4	2/28/2025 3:00	4.5	53.2	0.0	7.1	14.2	0.0	8.0
2/28/2025 3:15	4.5	50.1	0.0	7.0	13.4	1.2	2/28/2025 3:15	4.5	52.1	0.0	7.1	14.2	0.0	8.0
2/28/2025 3:30	4.5	50.1	0.0	7.0	13.4	1.1	2/28/2025 3:30	4.5	52.4	0.0	7.1	14.2	0.0	8.0
2/28/2025 3:45	4.5	50.3	0.0	6.9	13.4	1.6	2/28/2025 3:45	4.5	52.4	0.0	7.1	14.2	0.0	8.0
2/28/2025 4:00	4.5	50.2	0.0	7.0	13.4	1.1	2/28/2025 4:00	4.5	52.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 4:15	4.5	50.5	0.0	6.8	13.4	1.1	2/28/2025 4:15	4.4	52.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 4:30	4.4	50.6	0.0	6.8	13.4	1.1	2/28/2025 4:30	4.4	52.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 4:45	4.4	51.1	0.0	7.0	13.4	1.0	2/28/2025 4:45	4.4	53.3	0.0	7.1	14.3	0.0	8.0
2/28/2025 5:00	4.4	51.1	0.0	7.0	13.4	1.5	2/28/2025 5:00	4.4	52.7	0.0	7.2	14.3	0.0	8.0
2/28/2025 5:15	4.4	50.9	0.0	7.1	13.5	1.7	2/28/2025 5:15	4.3	52.8	0.0	7.2	14.3	0.0	8.0
2/28/2025 5:30	4.3	51.3	0.0	7.1	13.5	1.1	2/28/2025 5:30	4.3	53.2	0.0	7.2	14.3	0.0	8.0
2/28/2025 5:45	4.3	51.5	0.0	7.1	13.5	1.0	2/28/2025 5:45	4.3	53.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 6:00	4.3	51.6	0.0	7.0	13.5	1.0	2/28/2025 6:00	4.3	52.4	0.0	7.2	14.3	0.0	8.0
2/28/2025 6:15	4.3	51.1	0.0	7.1	13.5	0.9	2/28/2025 6:15	4.3	52.3	0.0	7.2	14.3	0.0	8.0
2/28/2025 6:30	4.3	51.2	0.0	7.1	13.5	1.0	2/28/2025 6:30	4.3	53.3	0.0	7.2	14.3	0.0	8.0
2/28/2025 6:45	4.3	51.8	0.0	7.1	13.5	1.2	2/28/2025 6:45	4.3	53.4	0.0	7.2	14.3	1.9	9.9
2/28/2025 7:00	4.3	51.9	0.0	6.9	13.5	1.3	2/28/2025 7:00	4.3	52.9	0.0	7.2	14.4	0.0	8.0
2/28/2025 7:15	4.3	51.7	0.0	7.1	13.5	1.0	2/28/2025 7:15	4.3	54.0	0.0	7.2	14.3	0.0	8.0
2/28/2025 7:30	4.3	52.5	0.0	7.1	13.5	1.2	2/28/2025 7:30	4.3	55.4	0.0	7.2	14.3	0.0	8.0
2/28/2025 7:45	4.3	53.1	0.0	6.9	13.5	1.1	2/28/2025 7:45	4.3	55.7	0.0	7.2	14.3	0.0	8.0
2/28/2025 8:00	4.3	53.4	0.0	7.1	13.5	0.9	2/28/2025 8:00	4.3	55.6	0.0	7.1	14.3	0.0	8.0
2/28/2025 8:15	4.3	54.0	0.0	7.0	13.5	1.2	2/28/2025 8:15	4.3	57.3	0.0	7.2	14.2	0.0	8.0
2/28/2025 8:30	4.3	54.5	0.0	7.0	13.4	1.2	2/28/2025 8:30	4.3	57.2	0.0	7.2	14.2	0.0	8.0
2/28/2025 8:45	4.3	54.2	0.0	7.1	13.5	0.9	2/28/2025 8:45	4.3	58.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 9:00	4.3	55.1	0.0	7.1	13.4	0.9	2/28/2025 9:00	4.4	61.6	0.0	7.1	14.1	0.0	8.0
2/28/2025 9:15	4.3	57.1	0.0	7.0	13.4	1.6	2/28/2025 9:15	4.4	62.5	0.0	7.1	14.1	0.0	8.0
2/28/2025 9:30	4.3	57.4	0.0	7.0	13.4	0.8	2/28/2025 9:30	4.4	60.5	0.0	7.1	14.2	0.0	8.0
2/28/2025 9:45	4.3	56.3	0.0	7.1	13.4	0.9	2/28/2025 9:45	4.3	59.3	0.0	7.1	14.2	0.5	8.5
2/28/2025 10:00	4.3	56.7	0.0	7.1	13.4	1.0	2/28/2025 10:00	4.4	60.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 10:15	4.4	57.6	0.0	7.0	13.4	0.9	2/28/2025 10:15	4.4	61.5	0.0	7.1	14.1	0.0	8.0
2/28/2025 10:30	4.4	57.1	0.0	7.0	13.4	1.0	2/28/2025 10:30	4.4	59.3	0.0	7.1	14.2	0.0	8.0
2/28/2025 10:45	4.4	55.8	0.0	7.1	13.5	1.1	2/28/2025 10:45	4.5	58.5	0.0	7.1	14.2	0.0	8.0
2/28/2025 11:00	4.5	55.5	0.0	7.0	13.5	1.0	2/28/2025 11:00	4.6	58.7	0.0	7.1	14.2	0.0	8.0
2/28/2025 11:15	4.6	56.1	0.0	7.0	13.4	0.9	2/28/2025 11:15	4.7	58.4	0.0	7.1	14.2	0.0	8.0
2/28/2025 11:30	4.7	55.6	0.0	7.1	13.4	1.0	2/28/2025 11:30	4.7	57.6	0.0	7.1	14.3	0.0	8.0
2/28/2025 11:45	4.7	55.2	0.0	7.0	13.5	1.0	2/28/2025 11:45	4.8	57.3	0.0	7.1	14.3	0.0	8.0
2/28/2025 12:00	4.7	55.2	0.0	7.0	13.4	0.8	2/28/2025 12:00	4.8	57.4	0.0	7.1	14.3	0.0	8.0
2/28/2025 12:15	4.8	55.3	0.0	7.0	13.4	1.5	2/28/2025 12:15	4.9	57.5	0.0	7.1	14.3	0.0	8.0
2/28/2025 12:30	4.8	55.3	0.0	7.0	13.4	0.8	2/28/2025 12:30	4.9	56.9	0.0	7.1	14.3	0.0	8.0
2/28/2025 12:45	4.9	54.9	0.0	7.0	13.4	0.9	2/28/2025 12:45	5.0	57.0	0.0	7.1	14.3	0.0	8.0
2/28/2025 13:00	4.9	54.8	0.0	7.0	13.4	0.9	2/28/2025 13:00	5.0	56.9	0.0	7.1	14.2	0.0	8.0
2/28/2025 13:15	5.0	54.9	0.0	7.0	13.4	0.9	2/28/2025 13:15	5.1	56.8	0.0	7.1	14.2	2.6	10.6
2/28/2025 13:30	5.1	54.7	0.0	7.0	13.4	1.0	2/28/2025 13:30	5.3	57.0	0.0	7.1	14.2	0.0	8.0
2/28/2025 13:45	5.2	54.5	0.0	7.0	13.4	1.2	2/28/2025 13:45	5.3	57.0	0.0	7.1	14.2	0.0	8.0
2/28/2025 14:00	5.3	54.4	0.0	7.0	13.4	1.0	2/28/2025 14:00	5.4	56.6	0.0	7.1	14.2	0.0	8.0
2/28/2025 14:15	5.3	54.1	0.0	7.0	13.4	0.9	2/28/2025 14:15	5.4	55.8	0.0	7.1	14.2	0.0	8.0
2/28/2025 14:30	5.4	53.8	0.0	7.0	13.3	1.2	2/28/2025 14:30	5.5	55.9	0.0	7.1	14.2	0.0	8.0
2/28/2025 14:45	5.5	53.7	0.0	7.0	13.3	1.4	2/28/2025 14:45	5.6	56.2	0.0	7.1	14.1	0.3	8.3
2/28/2025 15:00	5.6	53.7	0.0	7.0	13.3	1.3	2/28/2025 15:00	5.7	55.9	0.0	7.1	14.1	0.0	8.0
2/28/2025 15:15	5.7	53.3	0.0	7.0	13.3	1.2	2/28/2025 15:15	5.8	55.6	0.0	7.1	14.1	0.2	8.2
2/28/2025 15:30	5.7	53.2	0.0	7.0	13.3	1.2	2/28/2025 15:30	5.8	55.5	0.0	7.1	14.1	0.0	8.0
2/28/2025 15:45	5.7	53.1	0.0	7.0	13.3	1.2	2/28/2025 15:45	5.8	54.8	0.0	7.1	14.1	0.0	8.0
2/28/2025 16:00	5.7	52.8	0.0	7.0	13.3	1.2	2/28/2025 16:00	5.8	55.0	0.0	7.1	14.1	0.0	8.0
2/28/2025 16:15	5.7	52.7	0.0	7.0	13.3	1.5	2/28/2025 16:15	5.7	54.2	0.0	7.1	14.1	0.0	8.0
2/28/2025 16:30	5.7	52.3	0.0	7.1	13.3	1.2	2/28/2025 16:30	5.7	54.0	0.0	7.1	14.1	0.0	8.0
2/28/2025 16:45	5.7	52.1	0.0	7.1	13.3	1.2	2/28/2025 16:45	5.7	54.3	0.0	7.2	14.1	0.0	8.0
2/28/2025 17:00	5.7	52.3	0.0	7.1	13.2	1.2	2/28/2025 17:00	5.7	54.8	0.0	7.1	14.1	0.0	8.0
2/28/2025 17:15	5.6	52.4	0.0	7.0	13.3	1.0	2/28/2025 17:15	5.6	54.4	0.0	7.2	14.1	0.0	8.0
2/28/2025 17:30	5.6	53.0	0.0	7.1	13.2	1.0	2/28/2025 17:30	5.7	57.3	0.0	7.1	14.0	0.0	8.0
2/28/2025 17:45	5.6	52.9	0.0	7.1	13.2	1.1	2/28/2025 17:45	5.5	53.3	0.0	7.2	14.1	0.0	8.0
2/28/2025 18:00	5.5	51.3	0.0	7.1	13.3	1.1	2/28/2025 18:00	5.4	53.3	0.0	7.2	14.1	0.0	8.0
2/28/2025 18:15	5.4	51.0	0.0	7.1	13.3	0.9	2/28/2025 18:15	5.4	52.4	0.0	7.2	14.1	0.0	8.0
2/28/2025 18:30	5.3	50.3	0.0	7.0	13.3	1.1	2/28/2025 18:30	5.3	52.0	0.0	7.2	14.1	0.0	8.0
2/28/2025 18:45	5.3	50.2	0.0	7.1	13.3	1.1	2/28/2025 18:45	5.3	53.1	0.0	7.2	14.1	0.0	8.0
2/28/2025 19:00	5.3	51.1	0.0	7.1	13.3	1.1	2/28/2025 19:00	5.3	56.1	0.0	7.1	14.1	0.0	8.0
2/28/2025 19:15	5.3	52.4	0.0	7.1	13.2	1.1	2/28/2025 19:15	5.3	56.5	0.0	7.1	14.0	0.0	8.0
2/28/2025 19:30	5.3	52.7	0.0	7.0	13.2	0.9	2/28/2025 19:30	5.3	57.0	0.0	7.1	14.0	0.0	8.0
2/28/2025 19:45	5.3	52.8	0.0	7.1	13.2	1.0	2/28/2025 19:45	5.3	56.4	0.0	7.1	14.0	0.0	8.0
2/28/2025 20:00	5.3	53.6	0.0	7.1	13.2	0.9	2/28/2025 20:00	5.3	58.7	0.0	7.1	13.9	0.0	8.0
2/28/2025 20:15	5.3	54.6	0.0	7.0	13.1	1.1	2/28/2025 20:15	5.3	58.7	0.0	7.1	13.9	0.0	8.0
2/28/2025 20:30	5.3	54.9	0.0	7.0	13.1	1.2	2/28/2025 20:30	5.3	59.2	0.0	7.1	13.9	0.0	8.0
2/28/2025 20:45	5.3	54.5	0.0	6.9	13.1	1.0	2/28/2025 20:45	5.2	57.5	0.0	7.0	13.9	0.0	8.0
2/28/2025 21:00	5.2	52.3	0.0	6.9	13.1	1.0	2/28/2025 21:00	5.1	54.5	0.0	7.1	14.0	0.0	8.0
2/28/2025 21:15	5.2	51.7	0.0	7.0	13.1	1.1	2/28/2025 21:15	5.1	54.9	0.0	7.1	13.9	0.0	8.0
2/28/2025 21:30	5.2	51.3	0.0	7.0	13.2	1.1	2/28/2025 21:30	5.1	54.1	0.0	7.1	14.0	0.0	8.0
2/28/2025 21:45	5.1	51.3	0.0	7.0	13.2	1.3	2/28/2025 21:45	5.1	53.7	0.0	7.1	14.0	0.0	8.0
2/28/2025 22:00	5.1	51.5	0.0	6.9	13.2	1.1	2/28/2025 22:00	5.1	54.4	0.0	7.1	14.0	0.0	8.0
2/28/2025 22:15	5.1	51.5	0.0	7.0	13.2	2.4	2/28/2025 22:15	5.0	53.9	0.0	7.1	14.0	0.0	8.0
2/28/2025 22:30	5.0	51.8	0.0	7.0	13.2	1.2	2/28/2025 22:30	5.0	54.0	0.0	7.1	14.0	0.0	8.0
2/28/2025 22:45	5.0	52.1	0.0	7.1	13.2	1.0	2/28/2025 22:45	5.0	54.8	0.0	7.1	14.0	0.0	8.0
2/28/2025 23:00	5.0	52.1	0.0	7.0	13.2	1.2	2/28/2025 23:00	4.9	54.4	0.0	7.1	14.0	0.0	8.0
2/28/2025 23:15	5.0	52.6	0.0	7.0	13.2	1.2	2/28/2025 23:15	4.9	54.9	0.0	7.1	14.0	0.0	8.0
2/28/2025 23:30	4.9	52.6	0.0	7.0	13.2	1.1	2/28/2025 23:30	4.9	55.0	0.0	7.1	14.0	0.0	8.0
2/28/2025 23:45	4.9	52.6	0.0	7.0	13.2	1.1	2/28/2025 23:45	4.9	54.9	0.0	7.1	14.0	0.0	8.0
3/01/2025 0:00	4.9	53.1	0.0	7.1	13.2	1.0	3/01/2025 0:00	4.8	54.5	0.0	7.1	14.1	0.0	8.0
3/01/2025 0:15	4.9	52.9	0.0	7.0	13.2	1.0	3/01/2025 0:15	4.8	55.4	0.0	7.1	14.0	0.0	8.0
3/01/2025 0:30	4.9	52.9	0.0	6.9	13.2	1.2	3/01/2025 0:30	4.8	55.1	0.0	7.1	14.1	0.0	8.0
3/01/2025 0:45	4.8	52.9	0.0	7.1	13.2	1.1	3/01/2025 0:45	4.8	55.2	0.0	7.1	14.1	0.0	8.0
3/01/2025 1:00	4.8	53.1	0.0	7.1	13.2	1.1	3/01/2025 1:00	4.8	54.9	0.0	7.1	14.1	0.0	8.0
3/01/2025 1:15	4.8	53.1	0.0	7.1	13.3	1.7	3/01/2025 1:15	4.7	55.1	0.0	7.1	14.1	0.0	8.0
3/01/2025 1:30	4.8	52.8	0.0	7.1	13.3	1.2	3/01/2025 1:30	4.7	54.7	0.0	7.1	14.1	0.0	8.0
3/01/2025 1:45	4.7	52.9	0.0	7.0	13.3	0.9	3/01/2025 1:45	4.7	54.8	0.0	7.1	14.1	0.0	8.0
3/01/2025 2:00	4.7	52.9	0.0	7.1	13.3	1.1	3/01/2025 2:00	4.7	55.0	0.0	7.1	14.1	0.0	8.0
3/01/2025 2:15	4.7	52.8	0.0	7.1	13.3	1.0	3/01/2025 2:15	4.6	55.6	0.0	7.1	14.1	0.0	8.0
3/01/2025 2:30	4.6	52.9	0.0	7.0	13.3	1.2	3/01/2025 2:30	4.6	54.4	0.0	7.1	14.1	0.0	8.0
3/01/2025 2:45	4.6	52.7	0.0	7.1	13.3	1.2	3/01/2025 2:45	4.6	54.9	0.0	7.1	14.1	0.0	8.0
3/01/2025 3:00	4.6	52.8	0.0	7.1	13.3	1.3	3/01/2025 3:00	4.5	54.6	0.0	7.1	14.1	0.0	8.0
3/01/2025 3:15	4.6	52.6	0.0	7.0	13.3	1.0	3/01/2025 3:15	4.5	54.4	0.0	7.1	14.1	0.0	8.0
3/01/2025 3:30	4.5	52.7	0.0	7.1	13.3	1.2	3/01/2025 3:30	4.5	54.4	0.0	7.1	14.1	0.0	8.0
3/01/2025 3:45	4.5	52.6	0.0	7.1	13.3	0.9	3/01/2025 3:45	4.4	54.5	0.0	7.1	14.1	0.0	8.0
3/01/2025 4:00	4.5	52.5	0.0	7.0	13.3	1.1	3/01/2025 4:00	4.4	54.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 4:15	4.4	52.5	0.0	7.1	13.3	1.3	3/01/2025 4:15	4.4	54.7	0.0	7.1	14.1	0.0	8.0
3/01/2025 4:30	4.4	52.6	0.0	7.0	13.3	1.1	3/01/2025 4:30	4.4	54.2	0.0	7.1	14.1	0.0	8.0
3/01/2025 4:45	4.4	52.5	0.0	7.1	13.3	1.3	3/01/2025 4:45	4.3	54.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 5:00	4.4	52.6	0.0	7.1	13.3	1.0	3/01/2025 5:00	4.3	54.3	0.0	7.1	14.1	0.0	8.0
3/01/2025 5:15	4.3	52.5	0.0	7.1	13.3	1.0	3/01/2025 5:15	4.3	54.0	0.0	7.1	14.2	0.0	8.0
3/01/2025 5:30	4.3	52.1	0.0	7.1	13.3	1.0	3/01/2025 5:30	4.3	53.2	0.0	7.2	14.2	0.0	8.0

3/01/2025 5:45	4.3	51.8	0.0	7.1	13.3	1.2	3/01/2025 5:45	4.2	53.1	0.0	7.2	14.2	0.0	8.0
3/01/2025 6:00	4.3	51.8	0.0	7.1	13.4	0.9	3/01/2025 6:00	4.2	53.9	0.0	7.2	14.2	0.0	8.0
3/01/2025 6:15	4.3	52.3	0.0	7.1	13.4	1.2	3/01/2025 6:15	4.2	55.0	0.0	7.1	14.1	0.0	8.0
3/01/2025 6:30	4.3	52.8	0.0	7.0	13.3	1.4	3/01/2025 6:30	4.2	54.0	0.0	7.2	14.1	0.0	8.0
3/01/2025 6:45	4.2	52.4	0.0	7.1	13.3	1.0	3/01/2025 6:45	4.2	52.8	0.0	7.2	14.2	0.0	8.0
3/01/2025 7:00	4.2	51.7	0.0	7.1	13.4	1.4	3/01/2025 7:00	4.2	53.3	0.0	7.2	14.2	0.0	8.0
3/01/2025 7:15	4.2	52.1	0.0	7.0	13.4	1.3	3/01/2025 7:15	4.1	53.9	0.0	7.2	14.2	0.0	8.0
3/01/2025 7:30	4.2	52.3	0.0	7.1	13.4	0.9	3/01/2025 7:30	4.1	53.7	0.0	7.2	14.2	0.0	8.0
3/01/2025 7:45	4.1	52.2	0.0	7.1	13.4	0.8	3/01/2025 7:45	4.1	53.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 8:00	4.1	51.9	0.0	7.1	13.4	0.9	3/01/2025 8:00	4.0	53.3	0.0	7.2	14.3	0.0	8.0
3/01/2025 8:15	4.0	52.2	0.0	7.1	13.4	1.2	3/01/2025 8:15	4.0	55.8	0.0	7.2	14.2	0.0	8.0
3/01/2025 8:30	4.0	53.5	0.0	7.1	13.4	0.7	3/01/2025 8:30	4.0	57.5	0.0	7.1	14.2	0.0	8.0
3/01/2025 8:45	4.0	54.5	0.0	7.1	13.4	0.8	3/01/2025 8:45	4.0	55.9	0.0	7.2	14.2	0.0	8.0
3/01/2025 9:00	4.0	53.5	0.0	6.9	13.4	0.8	3/01/2025 9:00	3.9	54.9	0.0	7.2	14.3	0.0	8.0
3/01/2025 9:15	3.9	52.9	0.0	7.1	13.4	0.8	3/01/2025 9:15	3.9	56.2	0.0	7.2	14.2	0.0	8.0
3/01/2025 9:30	4.0	54.0	0.0	7.1	13.4	0.8	3/01/2025 9:30	4.0	60.5	0.0	7.1	14.1	0.0	8.0
3/01/2025 9:45	4.0	56.7	0.0	7.1	13.3	0.8	3/01/2025 9:45	4.1	60.4	0.0	7.1	14.1	0.0	8.0
3/01/2025 10:00	4.0	56.1	0.0	7.1	13.4	0.8	3/01/2025 10:00	4.0	58.4	0.0	7.1	14.2	0.0	8.0
3/01/2025 10:15	4.1	55.1	0.0	7.1	13.4	0.8	3/01/2025 10:15	4.1	57.4	0.0	7.2	14.2	0.0	8.0
3/01/2025 10:30	4.1	54.8	0.0	7.1	13.4	0.7	3/01/2025 10:30	4.1	58.0	0.0	7.1	14.2	0.0	8.0
3/01/2025 10:45	4.2	55.7	0.0	7.0	13.4	0.9	3/01/2025 10:45	4.2	59.4	0.0	7.1	14.1	0.0	8.0
3/01/2025 11:00	4.2	56.4	0.0	7.1	13.3	1.0	3/01/2025 11:00	4.3	59.1	0.0	7.1	14.1	0.0	8.0
3/01/2025 11:15	4.3	55.2	0.0	7.0	13.4	1.1	3/01/2025 11:15	4.3	56.9	0.0	7.1	14.2	0.0	8.0
3/01/2025 11:30	4.4	54.8	0.0	7.1	13.4	0.7	3/01/2025 11:30	4.4	57.5	0.0	7.1	14.2	0.0	8.0
3/01/2025 11:45	4.4	54.6	0.0	7.1	13.4	1.0	3/01/2025 11:45	4.5	57.0	0.0	7.1	14.2	0.0	8.0
3/01/2025 12:00	4.5	54.5	0.0	7.0	13.4	1.1	3/01/2025 12:00	4.6	56.7	0.0	7.1	14.2	0.0	8.0
3/01/2025 12:15	4.6	54.2	0.0	7.0	13.4	1.0	3/01/2025 12:15	4.7	56.3	0.0	7.1	14.2	0.0	8.0
3/01/2025 12:30	4.7	53.9	0.0	7.0	13.4	1.1	3/01/2025 12:30	4.7	56.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 12:45	4.7	53.9	0.0	7.0	13.4	1.0	3/01/2025 12:45	4.8	56.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 13:00	4.8	53.6	0.0	7.0	13.4	1.0	3/01/2025 13:00	4.9	55.8	0.0	7.1	14.2	0.0	8.0
3/01/2025 13:15	4.9	53.5	0.0	7.0	13.3	1.1	3/01/2025 13:15	4.9	55.4	0.0	7.1	14.2	0.0	8.0
3/01/2025 13:30	4.9	53.1	0.0	7.0	13.3	1.1	3/01/2025 13:30	5.0	55.2	0.0	7.1	14.2	0.0	8.0
3/01/2025 13:45	5.0	53.1	0.0	7.0	13.3	1.2	3/01/2025 13:45	5.1	55.1	0.0	7.1	14.2	0.0	8.0
3/01/2025 14:00	5.1	53.1	0.0	7.0	13.3	1.1	3/01/2025 14:00	5.1	55.6	0.0	7.1	14.1	0.0	8.0
3/01/2025 14:15	5.1	53.1	0.0	7.0	13.3	1.1	3/01/2025 14:15	5.2	55.5	0.0	7.1	14.1	0.0	8.0
3/01/2025 14:30	5.2	53.1	0.0	7.0	13.3	1.8	3/01/2025 14:30	5.2	55.5	0.0	7.1	14.1	0.0	8.0
3/01/2025 14:45	5.2	52.9	0.0	7.0	13.3	1.1	3/01/2025 14:45	5.2	54.9	0.0	7.1	14.1	0.0	8.0
3/01/2025 15:00	5.2	52.6	0.0	7.0	13.3	1.0	3/01/2025 15:00	5.2	54.7	0.0	7.1	14.1	0.0	8.0
3/01/2025 15:15	5.2	52.5	0.0	7.0	13.3	1.2	3/01/2025 15:15	5.2	54.7	0.0	7.1	14.1	0.0	8.0
3/01/2025 15:30	5.2	52.6	0.0	7.0	13.3	1.2	3/01/2025 15:30	5.2	55.0	0.0	7.1	14.1	0.0	8.0
3/01/2025 15:45	5.2	52.7	0.0	7.0	13.3	1.0	3/01/2025 15:45	5.3	55.6	0.0	7.1	14.1	0.0	8.0
3/01/2025 16:00	5.2	52.7	0.0	7.0	13.3	1.1	3/01/2025 16:00	5.2	55.0	0.0	7.1	14.1	0.0	8.0
3/01/2025 16:15	5.2	52.2	0.0	7.0	13.2	2.3	3/01/2025 16:15	5.2	54.8	0.0	7.1	14.1	0.0	8.0
3/01/2025 16:30	5.2	51.7	0.0	7.0	13.2	2.4	3/01/2025 16:30	5.2	54.7	0.0	7.1	14.1	0.0	8.0
3/01/2025 16:45	5.2	51.9	0.0	7.0	13.2	1.4	3/01/2025 16:45	5.2	54.8	0.0	7.1	14.1	0.0	8.0
3/01/2025 17:00	5.2	52.1	0.0	7.0	13.2	1.1	3/01/2025 17:00	5.2	54.5	0.0	7.1	14.1	0.7	8.7
3/01/2025 17:15	5.2	51.8	0.0	7.1	13.2	1.1	3/01/2025 17:15	5.1	54.2	0.0	7.1	14.1	0.0	8.0
3/01/2025 17:30	5.1	51.3	0.0	7.1	13.2	1.5	3/01/2025 17:30	5.1	53.2	0.0	7.1	14.1	0.0	8.0
3/01/2025 17:45	5.1	51.1	0.0	7.0	13.3	2.4	3/01/2025 17:45	5.1	53.0	0.0	7.2	14.1	0.0	8.0
3/01/2025 18:00	5.1	51.2	0.0	7.0	13.3	1.3	3/01/2025 18:00	5.0	52.6	0.0	7.2	14.1	0.0	8.0
3/01/2025 18:15	5.0	50.9	0.0	7.0	13.3	1.3	3/01/2025 18:15	5.0	53.9	0.0	7.2	14.1	0.0	8.0
3/01/2025 18:30	5.1	52.0	0.0	6.9	13.2	5.1	3/01/2025 18:30	5.1	57.1	0.0	7.1	14.0	0.1	8.1
3/01/2025 18:45	5.1	53.6	0.0	7.1	13.2	1.1	3/01/2025 18:45	5.1	55.3	0.0	7.1	14.0	0.0	8.0
3/01/2025 19:00	5.0	52.4	0.0	7.0	13.2	1.1	3/01/2025 19:00	5.0	54.1	0.0	7.2	14.0	0.0	8.0
3/01/2025 19:15	5.0	51.4	0.0	6.9	13.2	1.1	3/01/2025 19:15	4.9	52.7	0.0	7.2	14.1	0.0	8.0
3/01/2025 19:30	5.0	50.9	0.0	6.9	13.2	1.1	3/01/2025 19:30	4.9	52.8	0.0	7.2	14.1	0.0	8.0
3/01/2025 19:45	4.9	50.6	0.0	7.1	13.2	1.1	3/01/2025 19:45	4.9	53.8	0.0	7.2	14.0	0.0	8.0
3/01/2025 20:00	4.9	51.8	0.0	7.0	13.2	0.8	3/01/2025 20:00	4.9	55.0	0.0	7.2	14.0	0.0	8.0
3/01/2025 20:15	4.9	52.9	0.0	6.7	13.2	0.8	3/01/2025 20:15	4.9	57.5	0.0	7.1	13.9	0.0	8.0
3/01/2025 20:30	4.9	53.3	0.0	6.9	13.1	0.8	3/01/2025 20:30	4.9	56.9	0.0	7.1	13.9	0.0	8.0
3/01/2025 20:45	4.9	53.2	0.0	6.8	13.2	1.3	3/01/2025 20:45	4.9	57.6	0.0	7.1	13.9	0.0	8.0
3/01/2025 21:00	4.9	54.1	0.0	7.0	13.1	0.8	3/01/2025 21:00	4.9	59.1	0.0	7.1	13.9	0.0	8.0
3/01/2025 21:15	4.9	54.8	0.0	7.0	13.1	0.8	3/01/2025 21:15	4.9	60.2	0.0	7.1	13.8	0.0	8.0
3/01/2025 21:30	4.9	55.1	0.0	6.8	13.1	1.1	3/01/2025 21:30	4.9	59.9	0.0	7.1	13.8	0.0	8.0
3/01/2025 21:45	4.9	55.3	0.0	6.9	13.1	0.8	3/01/2025 21:45	4.9	58.6	0.0	7.1	13.8	0.0	8.0
3/01/2025 22:00	4.9	53.3	0.0	7.0	13.1	0.9	3/01/2025 22:00	4.9	55.4	0.0	7.1	13.9	0.0	8.0
3/01/2025 22:15	4.9	51.9	0.0	7.0	13.1	0.8	3/01/2025 22:15	4.9	54.9	0.0	7.1	13.9	0.0	8.0
3/01/2025 22:30	4.9	51.2	0.0	7.0	13.1	1.0	3/01/2025 22:30	4.8	54.1	0.0	7.1	13.9	13.6	18.6
3/01/2025 22:45	4.9	51.1	0.0	7.0	13.1	1.4	3/01/2025 22:45	4.9	54.2	0.0	7.1	13.9	0.0	8.0
3/01/2025 23:00	4.9	50.8	0.0	7.0	13.1	1.0	3/01/2025 23:00	4.9	54.0	0.0	7.1	13.9	0.0	8.0
3/01/2025 23:15	4.9	50.6	0.0	7.0	13.1	1.1	3/01/2025 23:15	4.8	52.7	0.0	7.1	14.0	0.0	8.0
3/01/2025 23:30	4.9	50.4	0.0	7.0	13.1	1.2	3/01/2025 23:30	4.8	52.5	0.0	7.1	14.0	0.0	8.0
3/01/2025 23:45	4.9	50.4	0.0	7.0	13.1	1.0	3/01/2025 23:45	4.8	52.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 0:00	4.9	50.3	0.0	7.0	13.1	1.2	3/02/2025 0:00	4.8	52.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 0:15	4.9	50.3	0.0	7.0	13.2	1.1	3/02/2025 0:15	4.8	53.0	0.0	7.1	14.0	0.0	8.0
3/02/2025 0:30	4.9	50.7	0.0	7.0	13.2	1.0	3/02/2025 0:30	4.8	53.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 0:45	4.8	51.1	0.0	7.0	13.2	1.1	3/02/2025 0:45	4.8	54.2	0.0	7.1	14.0	0.0	8.0
3/02/2025 1:00	4.8	51.2	0.0	7.0	13.2	1.1	3/02/2025 1:00	4.7	53.7	0.0	7.1	14.0	0.0	8.0
3/02/2025 1:15	4.8	51.7	0.0	7.0	13.2	1.1	3/02/2025 1:15	4.7	54.2	0.0	7.1	14.0	0.0	8.0
3/02/2025 1:30	4.7	51.8	0.0	7.1	13.2	1.2	3/02/2025 1:30	4.6	54.0	0.0	7.1	14.0	0.0	8.0
3/02/2025 1:45	4.7	52.3	0.0	7.1	13.2	1.3	3/02/2025 1:45	4.6	54.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 2:00	4.7	52.4	0.0	7.1	13.2	1.3	3/02/2025 2:00	4.6	55.1	0.0	7.1	14.0	0.0	8.0
3/02/2025 2:15	4.6	52.9	0.0	7.1	13.2	0.9	3/02/2025 2:15	4.6	54.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 2:30	4.6	52.9	0.0	7.1	13.2	0.8	3/02/2025 2:30	4.6	55.5	0.0	7.1	14.0	0.0	8.0
3/02/2025 2:45	4.6	53.3	0.0	7.1	13.2	0.9	3/02/2025 2:45	4.5	55.4	0.0	7.1	14.0	0.0	8.0
3/02/2025 3:00	4.6	53.5	0.0	7.0	13.2	0.8	3/02/2025 3:00	4.5	55.8	0.0	7.1	14.0	0.0	8.0
3/02/2025 3:15	4.6	53.7	0.0	7.1	13.2	0.9	3/02/2025 3:15	4.5	55.5	0.0	7.1	14.0	0.0	8.0
3/02/2025 3:30	4.6	54.0	0.0	7.1	13.2	1.0	3/02/2025 3:30	4.5	55.7	0.0	7.1	14.0	0.0	8.0
3/02/2025 3:45	4.6	53.9	0.0	7.1	13.2	1.0	3/02/2025 3:45	4.5	55.8	0.0	7.1	14.0	0.0	8.0
3/02/2025 4:00	4.5	53.8	0.0	7.1	13.2	1.1	3/02/2025 4:00	4.5	55.6	0.0	7.1	14.0	0.0	8.0
3/02/2025 4:15	4.5	53.8	0.0	7.0	13.2	1.0	3/02/2025 4:15	4.5	55.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 4:30	4.5	54.1	0.0	6.9	13.2	1.0	3/02/2025 4:30	4.5	55.7	0.0	7.2	14.0	0.0	8.0
3/02/2025 4:45	4.5	54.0	0.0	7.1	13.2	1.0	3/02/2025 4:45	4.4	55.7	0.0	7.2	14.0	0.0	8.0
3/02/2025 5:00	4.5	54.0	0.0	7.1	13.2	1.1	3/02/2025 5:00	4.4	55.8	0.0	7.2	14.0	0.0	8.0
3/02/2025 5:15	4.5	54.0	0.0	7.1	13.2	0.9	3/02/2025 5:15	4.4	55.4	0.0	7.1	14.1	0.0	8.0
3/02/2025 5:30	4.4	53.7	0.0	7.1	13.2	1.1	3/02/2025 5:30	4.4	55.0	0.0	7.1	14.1	0.0	8.0
3/02/2025 5:45	4.4	53.4	0.0	7.1	13.3	0.9	3/02/2025 5:45	4.4	54.5	0.0	7.2	14.1	0.0	8.0
3/02/2025 6:00	4.4	53.1	0.0	7.0	13.3	0.9	3/02/2025 6:00	4.3	54.1	0.0	7.2	14.1	0.0	8.0
3/02/2025 6:15	4.4	53.0	0.0	7.1	13.3	1.0	3/02/2025 6:15	4.3	54.6	0.0	7.2	14.1	0.0	8.0
3/02/2025 6:30	4.3	53.3	0.0	7.1	13.3	1.4	3/02/2025 6:30	4.3	56.2	0.0	7.1	14.1	0.0	8.0
3/02/2025 6:45	4.3	54.4	0.0	6.9	13.2	1.2	3/02/2025 6:45	4.3	56.2	0.0	7.1	14.0	0.0	8.0
3/02/2025 7:00	4.3	54.2	0.0	6.9	13.2	1.1	3/02/2025 7:00	4.3	54.6	0.0	7.2	14.1	0.0	8.0
3/02/2025 7:15	4.3	53.2	0.0	7.1	13.3	1.0	3/02/2025 7:15	4.2	54.0	0.0	7.2	14.2	0.0	8.0
3/02/2025 7:30	4.3	52.8	0.0	7.1	13.3	1.0	3/02/2025 7:30	4.2	53.6	0.0	7.2	14.2	0.0	8.0
3/02/2025 7:45	4.2	52.6	0.0	7.1	13.3	0.9	3/02/2025 7:45	4.2	54.2	0.0	7.2	14.2	0.0	8.0
3/02/2025 8:00	4.2	53.2	0.0	7.1	13.3	1.1	3/02/2025 8:00	4.2	55.9	0.0	7.1	14.1	0.0	8.0
3/02/2025 8:15	4.2	53.7	0.0	7.1	13.3	1.2	3/02/2025 8:15	4.1	55.1	0.0	7.2	14.2	0.0	8.0
3/02/2025 8:30	4.2	53.3	0.0	7.1	13.3	1.2	3/02/2025 8:30	4.1	54.6	0.0	7.2	14.2	0.0	8.0
3/02/2025 8:45	4.1	53.1	0.0	6.9	13.4	1.1	3/02/2025 8:45	4.1	56.6	0.0	7.2	14.2	0.0	8.0
3/02/2025 9:00	4.1	54.5	0.0	6.8	13.3	0.8	3/02/2025 9:00	4.1	58.0	0.0	7.1	14.1	0.0	8.0
3/02/2025 9:15	4.1	55.0	0.0	7.1	13.3	0.9	3/02/2025 9:15	4.1	56.1	0.0	7.1	14.2	0.0	8.0
3/02/2025 9:30	4.1	53.9	0.0	7.0	13.4	1.2	3/02/2025 9:30	4.1	56.6	0.0	7.2	14.2	0.0	8.0
3/02/2025 9:45	4.1	54.7	0.0	6.8	13.3	0.9	3/02/2025 9:45	4.2	60.8	0.0	7.1	14.0	0.0	8.0
3/02/2025 10:00	4.2	56.3	0.0	6.8	13.3	0.9	3/02/2025 10:00	4.2	59.7	0.0	7.1	14.1	0.0	8.0
3/02/2025 10:15	4.2	55.7	0.0	6.9	13.3	0.8	3/02/2025 10:15	4.2	59.2	0.0	7.1	14.1	0.0	8.0
3/02/2025 10:30	4.2	55.7	0.0	6.9	13.3	0.9	3/02/2025 10:30	4.2	59.3	0.0	7.1	14.1	0.0	8.0
3/02/2025 10:45	4.3	56.0	0.0	7.1	13.3	0.9	3/02/2025 10:45	4.3	59.0	0.0	7.1	14.1	0.0	8.0
3/02/2025 11:00	4.3	55.4	0.0	7.1	13.3	0.8	3/02/2025 11:00	4.4	58.7	0.0	7.1	14.1	0.0	8.0
3/02/2025 11:15	4.4	55.0	0.0	7.0	13.3	1.0	3/02/2025 11:15	4.5	58.4	0.0	7.1	14.1	0.2	8.2
3/02/2025 11:30	4.5	54.3	0.0	7.0	13.3	1.0	3/02/2025 11:30	4.6	56.3	0.0	7.1	14.1	0.0	8.0
3/02/2025 11:45	4.6	53.8	0.0	7.1	13.3	1.6	3/02/2025 11:45	4.6	56.2	0.0	7.1	14.1	0.0	8.0
3/02/2025 12:00	4.6	53.6	0.0	7.0	13.3	1.2	3/02/2025 12:00	4.6	55.7	0.0	7.1	14.1	0.0	8.0
3/02/2025 12:15	4.6	53.1	0.0	7.0	13.3	1.0	3/02/2025 12:15	4.6	55.3	0.0	7.1	14.1	0.2	8.2
3/02/2025 12:30	4.6	52.9	0.0	7.0	13.3	1.1	3/02/2025 12:30	4.7	54.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 12:45	4.7	52.6	0.0	7.0	13.3	1.0	3/02/2025 12:45	4.7	55.0	0.0	7.1	14.1	0.0	8.0
3/02/2025 13:00	4.7	52.6	0.0	7.0	13.3	1.1	3/02/2025 13:00	4.8	54.8	0.0	7.1	14.2	0.0	8.0
3/02/2025 13:15	4.8	52.5	0.0	7.0	13.3	0.9	3/02/2025 13:15	4.9	54.4	0.0	7.1	14.2	0.0	8.0

3/02/2025 13:30	4.9	52.3	0.0	7.0	13.3	0.9	3/02/2025 13:30	5.0	54.1	0.0	7.1	14.2	0.0	8.0
3/02/2025 13:45	5.0	52.0	0.0	7.0	13.3	0.9	3/02/2025 13:45	5.0	53.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 14:00	5.0	51.9	0.0	7.0	13.3	0.8	3/02/2025 14:00	5.0	53.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 14:15	5.0	51.8	0.0	7.0	13.4	1.0	3/02/2025 14:15	5.1	54.3	0.0	7.1	14.2	0.0	8.0
3/02/2025 14:30	5.0	52.0	0.0	7.0	13.3	1.0	3/02/2025 14:30	5.1	54.4	0.0	7.1	14.2	0.0	8.0
3/02/2025 14:45	5.0	51.7	0.0	7.1	13.4	1.0	3/02/2025 14:45	5.1	53.5	0.0	7.1	14.2	0.0	8.0
3/02/2025 15:00	5.0	51.1	0.0	7.1	13.4	1.1	3/02/2025 15:00	5.1	53.8	0.0	7.1	14.2	0.0	8.0
3/02/2025 15:15	5.0	51.2	0.0	7.0	13.4	0.9	3/02/2025 15:15	5.1	53.8	0.0	7.1	14.2	0.0	8.0
3/02/2025 15:30	5.0	51.3	0.0	7.0	13.4	0.8	3/02/2025 15:30	5.1	53.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 15:45	5.1	51.2	0.0	7.1	13.4	0.9	3/02/2025 15:45	5.1	53.7	0.0	7.1	14.2	0.0	8.0
3/02/2025 16:00	5.1	51.0	0.0	7.1	13.4	1.7	3/02/2025 16:00	5.1	53.4	0.0	7.1	14.2	0.0	8.0
3/02/2025 16:15	5.1	51.0	0.0	7.0	13.4	1.0	3/02/2025 16:15	5.1	54.0	0.0	7.1	14.2	0.0	8.0
3/02/2025 16:30	5.1	50.9	0.0	7.1	13.4	0.9	3/02/2025 16:30	5.1	52.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 16:45	5.1	50.3	0.0	7.1	13.4	1.0	3/02/2025 16:45	5.2	53.4	0.0	7.1	14.2	0.0	8.0
3/02/2025 17:00	5.1	50.4	0.0	7.1	13.4	1.2	3/02/2025 17:00	5.1	52.6	0.0	7.1	14.2	0.0	8.0
3/02/2025 17:15	5.1	50.2	0.0	7.0	13.4	1.3	3/02/2025 17:15	5.1	52.8	0.0	7.2	14.2	0.4	8.4
3/02/2025 17:30	5.1	49.9	0.0	7.0	13.4	1.1	3/02/2025 17:30	5.1	52.6	0.0	7.1	14.2	0.0	8.0
3/02/2025 17:45	5.1	50.2	0.0	7.1	13.4	1.1	3/02/2025 17:45	5.1	52.4	0.0	7.1	14.2	0.0	8.0
3/02/2025 18:00	5.1	50.0	0.0	7.1	13.4	1.1	3/02/2025 18:00	5.1	52.9	0.0	7.1	14.2	0.0	8.0
3/02/2025 18:15	5.1	49.9	0.0	7.1	13.4	1.3	3/02/2025 18:15	5.1	52.7	0.0	7.1	14.2	0.0	8.0
3/02/2025 18:30	5.0	50.1	0.0	7.0	13.3	1.3	3/02/2025 18:30	5.0	52.5	0.0	7.1	14.2	0.0	8.0
3/02/2025 18:45	5.0	49.9	0.0	7.0	13.4	0.9	3/02/2025 18:45	5.0	52.3	0.0	7.2	14.2	0.0	8.0
3/02/2025 19:00	5.0	49.6	0.0	7.1	13.4	1.0	3/02/2025 19:00	5.0	52.0	0.0	7.2	14.2	0.0	8.0
3/02/2025 19:15	5.0	49.7	0.0	6.9	13.4	0.9	3/02/2025 19:15	5.0	52.5	0.0	7.2	14.2	0.0	8.0
3/02/2025 19:30	4.9	50.2	0.0	7.0	13.3	0.9	3/02/2025 19:30	4.9	52.2	0.0	7.2	14.2	0.0	8.0
3/02/2025 19:45	4.9	49.9	0.0	7.1	13.3	1.1	3/02/2025 19:45	4.9	51.7	0.0	7.2	14.2	0.0	8.0
3/02/2025 20:00	4.9	50.0	0.0	7.2	13.4	0.8	3/02/2025 20:00	4.9	52.9	0.0	7.2	14.2	0.0	8.0
3/02/2025 20:15	4.9	50.6	0.0	7.2	13.4	1.1	3/02/2025 20:15	4.8	52.3	0.0	7.2	14.2	0.0	8.0
3/02/2025 20:30	4.8	50.5	0.0	6.9	13.4	1.0	3/02/2025 20:30	4.8	53.0	0.0	7.2	14.2	0.0	8.0
3/02/2025 20:45	4.8	51.2	0.0	7.1	13.3	1.0	3/02/2025 20:45	4.8	53.7	0.0	7.2	14.1	0.0	8.0
3/02/2025 21:00	4.8	51.6	0.0	6.9	13.3	0.8	3/02/2025 21:00	4.8	54.7	0.0	7.2	14.1	0.0	8.0
3/02/2025 21:15	4.8	52.7	0.0	6.9	13.3	0.9	3/02/2025 21:15	4.8	56.7	0.0	7.2	14.1	0.0	8.0
3/02/2025 21:30	4.8	53.6	0.0	7.0	13.3	0.9	3/02/2025 21:30	4.8	59.0	0.0	7.1	14.0	0.0	8.0
3/02/2025 21:45	4.8	55.9	0.0	7.0	13.2	1.1	3/02/2025 21:45	4.9	61.5	0.0	7.1	14.0	0.0	8.0
3/02/2025 22:00	4.8	56.8	0.0	7.1	13.2	0.9	3/02/2025 22:00	4.9	61.5	0.0	7.1	13.9	0.0	8.0
3/02/2025 22:15	4.8	56.5	0.0	6.7	13.2	1.0	3/02/2025 22:15	4.9	60.7	0.0	7.1	14.0	0.0	8.0
3/02/2025 22:30	4.8	57.1	0.0	7.1	13.2	0.8	3/02/2025 22:30	4.9	60.6	0.0	7.1	14.0	0.0	8.0
3/02/2025 22:45	4.8	56.5	0.0	7.0	13.2	0.9	3/02/2025 22:45	4.8	60.1	0.0	7.1	14.0	0.0	8.0
3/02/2025 23:00	4.8	55.2	0.0	7.1	13.2	0.9	3/02/2025 23:00	4.8	56.9	0.0	7.1	14.0	0.0	8.0
3/02/2025 23:15	4.8	54.0	0.0	7.1	13.2	0.9	3/02/2025 23:15	4.8	57.0	0.0	7.1	14.0	0.0	8.0
3/02/2025 23:30	4.8	53.8	0.0	7.1	13.3	1.0	3/02/2025 23:30	4.8	56.2	0.0	7.1	14.1	0.0	8.0
3/02/2025 23:45	4.8	53.7	0.0	7.0	13.3	0.8	3/02/2025 23:45	4.8	56.4	0.0	7.1	14.1	0.0	8.0

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

Woodfibre Site Sample Analysis

TRITON	Sample ID	Reviewed and signed off by: Fanshed Shafiei Ph.D., R.P.Bio.		WLNG EOP	Sample or value notes	BCWQ FAL - Short Term	BCWQ MAL - Short Term
	LAB ID			VA25A4080-001			
	Date Sampled			25-Feb-2025			
	Time Sampled			09:45			
Analyte	Units	FAL-ST [1,2]	MAL-ST [1]	Water			
				N/A		Guideline notes	
In Situ Parameters							
pH (field)	pH units	6.5-9.0	7.0-8.7	6.68		If natural pH < 6.5, no statistically significant decrease from background. No restriction in increase except in areas with unique flora or fauna. Unrestricted change permitted within range of 6.5 to 9.0. If natural pH > 9.0, no statistically significant increase from background. Refer to BC Water Quality Guidelines for more information.	Unrestricted change within this range (for protection of mollusc embryo development)
Temperature (field)	°C	Multiple guidelines dependent on water use and species, see notes Short-term daily temperature < 15°C, or Max +/- 1°C from optimum temperature range for most sensitive salmonid species present, or Short-term daily temperature is 19°C, or Max +/- from BKG 1°C	Max +/- from BKG 1°C	11.6		Guideline is species-dependent. Short-term daily temperature is 15°C for streams with Bull Trout &/or Dolly Varden, Max +/- 1°C from the optimum range as shown in Table 4(3B of the BCWG for aquatic life for each life history phase of the most sensitive salmonid species present, Mean Weekly Max Temperature guideline is18°C. Short-term daily temperature guideline is 19°C for streams with unknown fish distribution, or Max +/- 1°C from background. Refer to footnote 4 for background temperature range for East Creek.	Guideline for marine waters are based on natural ambient conditions. Refer to footnote 4 for background temperature range for East Creek. Calculation: US value +/- 1 = guideline range
Conductivity (field)	µS/cm	-	-	275			
Turbidity (field)	NTU	Varies with background, see note Guideline = 14.7	Varies with background, see note Guideline = 14.7	6.7		Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 8 = DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value + 5 = DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value + (US value/5.1) = DS guideline	Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 8 = DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value + 5 = DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value + (US value/5.1) = DS guideline
General Parameters							
Hardness (as CaCO3) (total)	mg/L	-	-	98.8			
Total Dissolved Solids	mg/L	-	-	176			
Total Suspended Solids	mg/L	Varies with background, see note Guideline = 28.0	Varies with background, see note Guideline = 28.0	80.4 < 3.0		Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value + (US value/10) = DS guideline	Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value + (US value/10) = DS guideline
Dissolved Organic Carbon (DOC)	mg/L	-	-	12.6			
Total Phenols	mg/L	0.05	-	< 0.0010		Interim guideline	Interim guideline
Total Alkalinity (CaCO3)	mg/L	-	-	80.4			
Total Sulfide (as S)	mg/L	-	-	< 0.0015			
Total Sulfide (un-ionized as H_2S)	mg/L	-	-	< 0.0015			
Total Sulfide (as H_2S)	mg/L	-	-	< 0.0016			
Anions and Nutrients							
Ammonia	mg/L ammonia-N	Varies with pH and temperature. See note. Guideline = 24.7	Varies with pH and temperature. See note. Guideline = 131	0.0217		Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D-n BC WQG for guideline values	Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent Refer to Table 27F in BC WQG for guideline values
Bromide	mg/L	-	-	< 0.050			
Chloride	mg/L	600	+/- 10% from BKG	14.3			Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
Fluoride	mg/L	Varies with hardness Guideline = 1.329	1.5	0.168		Guideline free interim status. Guideline is calculated with the following equation: Guideline = [-51.73 + 92.57 log10 Hardness]^2 - 0.21	
Nitrate (as N)	mg/L	32.8	-	0.0172			
Nitrite (as N)	mg/L	Varies with chloride. Table 27B, see note. Guideline = 0.60	-	< 0.0010		Varies with chloride. Refer to Table 27B in BC WQG for guideline values.	
Total Nitrogen	mg/L	-	-	0.322			
Total Phosphorous	mg/L	-	-	0.0064			
Sulfate (as SO_4)	mg/L	-	-	9.45			
Total Metals							
Aluminum (Al)-Total	mg/L	-	-	1.85			
Antimony (Sb)-Total	mg/L	0.25	-	0.00034			
Arsenic (As)-Total	mg/L	-	-	0.00136			
Barium (Ba)-Total	mg/L	-	-	0.0152			
Beryllium (Be)-Total	mg/L	-	-	< 0.000100			
Bismuth (Bi)-Total	mg/L	-	-	< 0.000050			
Boron (B)-Total	mg/L	-	-	0.017			
Cadmium (Cd)-Total	mg/L	-	-	< 0.0000200			
Calcium (Ca)-Total	mg/L	-	-	37			
Cesium (Cs)-Total	mg/L	-	-	0.00011			
Chromium (Cr) - Total	mg/L	-	-	0.00414			
Chromium (Cr(III))-Total	mg/L	-	-	< 0.00089			
Chromium (Cr(VI))-Total	mg/L	-	-	< 0.00325			
Cobalt (Co)-Total	mg/L	0.11	-	0.0001			
Copper (Cu)-Total	mg/L	-	0.003	0.00164			
Iron (Fe)-Total	mg/L	1	-	0.253			
Lead (Pb)-Total	mg/L	-	0.14	0.000169			
Lithium (Li)-Total	mg/L	-	-	0.0031			
Magnesium (Mg)-Total	mg/L	-	-	1.55			
Manganese (Mn)-Total	mg/L	Varies with hardness Guideline = 1.629	-	0.00649		Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = e^(0.3775 * ln(hardness) + 0.6232) Guideline applies to samples with hardness 25-255 mg/L. Lowest value for guideline is 0.77 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	
Mercury (Hg)-Total	mg/L	-	-	< 0.0000050			
Molybdenum (Mo)-Total	mg/L	46	-	0.0199			
Nickel (Ni)-Total	mg/L	-	-	0.00052			
Phosphorus (P)-Total	mg/L	-	-	< 0.050			
Potassium (K)-Total	mg/L	-	-	1.94			
Rubidium (Rb)-Total	mg/L	-	-	0.00453			
Selenium (Se)-Total	mg/L	-	-	0.000099			
Silicon (Si)-Total	mg/L	-	-	7.79			
Silver (Ag)-Total	mg/L	Varies with hardness, see note Guideline = 0.0001	0.003	< 0.000010		Varies with hardness Guideline ranges: Hardness ≤ 100: 0.0001 Hardness > 100: 0.003	
Sodium (Na)-Total	mg/L	-	-	6.38			
Strontium (Sr)-Total	mg/L	-	-	0.0747			
Sulfur (S)-Total	mg/L	-	-	3.56			
Tellurium (Te)-Total	mg/L	-	-	< 0.00020			
Thallium (Tl)-Total	mg/L	-	-	< 0.000010			
Thorium (Th)-Total	mg/L	-	-	< 0.00010			
Tin (Sn)-Total	mg/L	-	-	< 0.00010			
Titanium (Ti)-Total	mg/L	-	-	0.0101			
Tungsten (W)-Total	mg/L	-	-	0.00035			
Uranium (U)-Total	mg/L	0.0165	-	0.00417			
Vanadium (V)-Total	mg/L	-	-	0.00336			
Zinc (Zn)-Total	mg/L	-	0.055	0.0033			
Zirconium (Zr)-Total	mg/L	-	-	< 0.00040			
Dissolved Metals							
Aluminum (Al)-Dissolved	mg/L	-	-	1.59			
Antimony (Sb)-Dissolved	mg/L	-	-	0.00034			
Arsenic (As)-Dissolved	mg/L	-	-	0.00162			
Barium (Ba)-Dissolved	mg/L	-	-	0.0172			
Beryllium (Be)-Dissolved	mg/L	-	-	< 0.000100			
Bismuth (Bi)-Dissolved	mg/L	-	-	< 0.000050			
Boron (B)-Dissolved	mg/L	-	-	0.014			
Cadmium (Cd)-Dissolved	mg/L	Varies with hardness, see note Guideline = 0.000581	-	< 0.0000200		Guideline is hardness dependent. Guideline is applicable to water hardness between 0 to and 400 mg/L. Guideline is calculated using the following formula: Guideline = e^(1.0166 * ln(hardness) - 3.3760)/1000 Lowest value for guideline is 0.000015 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.	
Calcium (Ca)-Dissolved	mg/L	-	-	41.2			
Cesium (Cs)-Dissolved	mg/L	-	-	0.000088			
Chromium (Cr)-Dissolved	mg/L	-	-	0.0039			
Cobalt (Co)-Dissolved	mg/L	-	-	< 0.00010			
Copper (Cu)-Dissolved	mg/L	Guideline varies with other parameters, see note Guideline = 0.0087	-	0.00145		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	
Iron (Fe)-Dissolved	mg/L	0.35	-	0.065			
Lead (Pb)-Dissolved	mg/L	-	-	< 0.0000050			
Lithium (Li)-Dissolved	mg/L	-	-	0.0026			
Magnesium (Mg)-Dissolved	mg/L	-	-	1.62			
Manganese (Mn)-Dissolved	mg/L	-	-	0.00799			
Mercury (Hg)-Dissolved	mg/L	-	-	< 0.000005			
Molybdenum (Mo)-Dissolved	mg/L	-	-	0.0205			
Nickel (Ni)-Dissolved	mg/L	Guideline varies with pH, temperature, DOC, and hardness Guideline: 0.0642	-	< 0.00050		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	
Phosphorus (P)-Dissolved	mg/L	-	-	< 0.0500		0.0500	
Potassium (K)-Dissolved	mg/L	-	-	1.83			
Rubidium (Rb)-Dissolved	mg/L	-	-	0.0043			
Selenium (Se)-Dissolved	mg/L	-	-	0.000089			
Silicon (Si)-Dissolved	mg/L	-	-	7.41			
Silver (Ag)-Dissolved	mg/L	-	-	< 0.000010			
Sodium (Na)-Dissolved	mg/L	-	-	6.7			
Strontium (Sr)-Dissolved	mg/L	-	-	0.066			
Sulfur (S)-Dissolved	mg/L	-	-	3.3			
Tellurium (Te)-Dissolved	mg/L	-	-	< 0.00020			
Thallium (Tl)-Dissolved	mg/L	-	-	< 0.000010			
Thorium (Th)-Dissolved	mg/L	-	-	< 0.00010			
Tin (Sn)-Dissolved	mg/L	-	-	< 0.00010			
Titanium (Ti)-Dissolved	mg/L	-	-	0.00038			
Tungsten (W)-Dissolved	mg/L	-	-	0.0005			
Uranium (U)-Dissolved	mg/L	-	-	0.0038			
Vanadium (V)-Dissolved	mg/L	-	-	0.00262			
Zinc (Zn)-Dissolved	mg/L	Varies with DOC and hardness Guideline = 0.071	-	0.004		Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = (EXP(0.8527 * (LN(hardness)) + 0.24 * (LN(DOC))) + 0.526)/(0.01000) If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.	
Zirconium (Zr)-Dissolved	mg/L	-	-	< 0.00020			
Volatile Organic Compounds							
Chloroethane	µg/L	-	-	< 0.50			
Chloromethane	µg/L	-	-	< 5.0			
Dichlorobenzene, 1,3-	µg/L	-	-	< 0.30			
Dichlorobenzene, 1,3-	µg/L	-	-	< 0.50			
Dichlorobenzene, 1,4-	µg/L	-	-	< 0.50			
Dichloropropane, 1,2-	µg/L	-	-	< 0.50			
Dichloropropylene, cis+trans-	µg/L	-	-	< 0.75			
Dichloropropylene, cis-1,3-	µg/L	-	-	< 0.50			
Tetrachloroethane, 1,1,1,2-	µg/L	-	-	< 0.30			
Tetrachloroethane, 1,1,2,2-	µg/L	-	-	< 0.20			
Trichloroethane, 1,1,2-	µg/L	-	-	< 0.50			
Trichlorofluoromethane	µg/L	-	-	< 0.50			
Carbon tetrachloride	µg/L	-	-	< 0.50			
Chloroethane	µg/L	-	-	< 0.50			
Dichloroethane, 1,1-	µg/L	-	-	< 0.50			
Dichloroethane, 1,2-	µg/L	-	-	< 0.50			
Dichloroethylene, 1,1-	µg/L	-	-	< 0.50			
Dichloroethylene, cis-1,2-	µg/L	-	-	< 0.50			
Dichloroethylene, trans-1,2-	µg/L	-	-	< 0.50			
Dichloromethane	µg/L	-	-	< 1.0			
Dichloropropylene, trans-1,3-	µg/L	-	-	< 0.50			
Tetrachloroethylene	µg/L	-	-	< 0.50			
Trichloroethane, 1,1,1-	µg/L	-	-	< 0.50			
Trichloroethylene	µg/L	-	-	< 0.50			
Vinyl chloride	µg/L	-	-	< 0.40			
Benzene	µg/L	-	-	< 0.50			
Ethylbenzene	µg/L	-	-	< 0.50			
Methyltert-butyl ether (MTBE)	µg/L	3400	440	< 0.50			
Styrene	µg/L	-	-	1.92			
Toluene	µg/L	-	-	< 0.40			
Xylene, m+p-	µg/L	-	-	< 0.40			
Xylene, o-	µg/L	-	-	< 0.30			
Xylenes, total	µg/L	-	-	< 0.50			
Bromodichloromethane	µg/L	-	-	< 0.50			
Bromoform	µg/L	-	-	< 0.50			
Chloroform	µg/L	-	-	< 0.50			
Chlorodibromomethane	µg/L	-	-	< 0.50			
Hydrocarbons							
EPH (C19-C10)	µg/L	-	-	< 250			
EPH (C19-C32)	µg/L	-	-	< 250			
VHw (C6-C10)	µg/L	-	-	< 100			
LEPHw	µg/L	-	-	< 250			
UPHw	µg/L	-	-	< 100			
HEPHw	µg/L	-	-	< 250			
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	µg/L	-	-	< 0.010			
Acenaphthylene	µg/L	-	-	< 0.010			
Acridine	µg/L	-	-	< 0.010			
Anthracene	µg/L	0.1	-	< 0.010			
Benz(a)anthracene	µg/L	0.1	-	< 0.010			
Benzo(a)pyrene	µg/L	-	-	< 0.0050			
Benzo[b+j]fluoranthene	µg/L	-	-	< 0.010			
Benzo[b+k]fluoranthene	µg/L	-	-	< 0.010			
Benzo(b,k)perylene	µg/L	-	-	< 0.010			
Benzo(ghi)perylene	µg/L	-	-	< 0.010			
Chrysene	µg/L	-	-	< 0.010			
Dibenz(a,h)anthracene	µg/L	-	-	< 0.0050			
Fluoranthene	µg/L	0.2	-	< 0.010		Guideline is for photolytic effects	
Fluorene	µg/L	-	-	< 0.010			
Indeno(1,2,3-cd)pyrene	µg/L	-	-	< 0.010			
Methylnaphthalene, 1-	µg/L	-	-	0.022			
Methylnaphthalene, 2-	µg/L	-	-	0.034			
Naphthalene	µg/L	-	-	< 0.050			
Phenanthrene	µg/L	-	-	< 0.020			
Pyrene	µg/L	0.02	-	< 0.010			
Quinoline	µg/L	-	-	< 0.050		Working guideline status	
Glycols							
Ethylene glycol	mg/L	-	-	< 5.0			
Propylene glycol, 1,2-	mg/L	-	-	< 5.0			
Applied Guideline:		**British Columbia Approved and Working Water Quality Guidelines (NOV 2023) for Freshwater Aquatic Life (FAL) & Marine Aquatic Life (MAL)** **Short-Term (ST) & Long-Term (LT)**					

[1]BC MOECCS. 2023. BC Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from
wqg_summary_aquaticlife_wildlife_wgd.pdf (gov.bc.ca)
[2]BC MOECCS. 2021. BC Working Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from
for_gov_webtools_water_quality_guidelines.pdf (gov.bc.ca)
[3]Note that long-term (LT) guidelines apply to averaged data to account for chronic impacts to aquatic life. Ideally, five samples collected at evenly spaced intervals over 30 days is considered to be the minimum number needed to calculate the long-term average of any parameter, though this may vary by parameter and site conditions. Long-term guidelines provided here are for reference only and may not indicate chronic impacts to aquatic life if exceedances occur in the short-term (ST).
[4]Background temperature ranges: Dec-Feb: 0.3-6.0C. Mar-Apr: 3.0-10.2C. May-June: 6.8-15.1C. Jul-present: 12.9-18.2C
Reference: AquaTROLL In-Situ Data Logger - Background water quality readings collected from Dec.-present.
For guidelines dependent on other parameters, when hardness, pH or DOC are below the range stated in the guideline, the lowest value in the range is used to calculate the

Parameters Used to Calculate Guidelines

Analyte	Units	Measurement method	Values	
			WLNG EOP	WLNG EOP
pH (field)	pH units	Field pH taken using handheld meters during sampling used in calculations	6.68	6.68
Temperature (field)	°C	Field temperature taken using handheld meters during sampling used in calculations	11.6	11.6
Turbidity (field)	NTU	Field turbidity taken using handheld meters during sampling used in calculations	6.70	6.70
Hardness (as CaCO3) (total)	mg/L	Laboratory tested total hardness taken at each respective sample site on the day of sampling used in guideline calculations	98.8	98.8
Dissolved Organic Carbon (DOC)	mg/L	Laboratory tested dissolved organic carbon tested at the lab used in guideline calculations	12.6	12.6
Total Alkalinity (CaCO3)	mg/L	Laboratory tested total alkalinity used in calculations	80.4	80.4
Chloride	mg/L	Laboratory tested chloride taken at each respective sample site on the day of sampling used in guideline calculations	14.3	14.3
Total Suspended Solids	mg/L	Laboratory tested total suspended solids tested at the lab used in guideline calculations	< 3.0	< 3.0

Woodfibre Site Sample Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order	:	**VA25A4080**		
Client	:	**Triton Environmental Consultants Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact	:		Account Manager	:
Address	:		Address	:
Telephone	:		Telephone	:
Project	:	11964	Date Samples Received	:
PO	:	11964 Task 40-Phase 3C-4C	Date Analysis Commenced	:
C-O-C number	:	----	Issue Date	:
Sampler	:	----		
Site	:	Water Analysis		
Quote number	:	VA25-TRIT100-001		
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
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Laboratory Department*

General Comments

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

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

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

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

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

Unit	*Description*
-	no units
°C	degrees celsius
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

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

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

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

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm		275.00	----	----	----	----
pH, field	----	EF001/VA	0.10	pH units		6.68	----	----	----	----
Temperature, field	----	EF001/VA	0.10	°C		11.6	----	----	----	----
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L		110	----	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L		98.8	<0.60	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L		176	<10	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L		<3.0	<3.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L		85.4	<2.0	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L		0.0217	<0.0050	----	----	----
Bromide	24959-67-9	E235.Br-L/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L		14.3	<0.50	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L		0.168	<0.020	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L		0.0172	<0.0050	----	----	----
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		0.322	<0.030	----	----	----
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L		0.0064	<0.0020	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L		9.45	<0.30	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L		12.6	----	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: WLNG EOP	Client sample ID: WLNG EOP Trip Blank	Client sample ID: ----	Client sample ID: ----	Client sample ID: ----
					Client sampling date / time: 25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
					VA25A4080-001	VA25A4080-002	----	----	----
					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	----	----	----	----
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	1.85	<0.0030	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00034	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00138	<0.00010	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.0152	<0.00010	----	----	----
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	0.017	<0.010	----	----	----
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000200 DLM	<0.0000050	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	37.0	<0.050	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000110	<0.000010	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	0.00414	<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	0.00164	<0.00050	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.253	<0.010	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000169	<0.000050	----	----	----
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	0.0031	<0.0010	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	1.55	<0.0050	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		0.00849	<0.00010	----	----	----
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		0.0199	<0.000050	----	----	----
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L		0.00052	<0.00050	----	----	----
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, total	7440-09-7	E420/VA	0.050	mg/L		1.94	<0.050	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L		0.00463	<0.00020	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		0.000089	<0.000050	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		7.79	<0.10	----	----	----
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		6.38	<0.050	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		0.0747	<0.00020	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		3.56	<0.50	----	----	----
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		0.0101	<0.00030	----	----	----
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L		0.00035	<0.00010	----	----	----
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L		0.00417	<0.000010	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		0.00336	<0.00050	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		0.0053	<0.0030	----	----	----
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L		<0.00040 DLM	<0.00020	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	0.0010	mg/L		1.59	----	----	----	----
Antimony, dissolved	7440-36-0	E421/VA	0.00010	mg/L		0.00034	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/VA	0.00010	mg/L		0.00162	----	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L		0.0172	----	----	----	----
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		0.014	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/VA	0.0000050	mg/L		<0.0000200 DLM	----	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L		41.2	----	----	----	----
Cesium, dissolved	7440-46-2	E421/VA	0.000010	mg/L		0.000088	----	----	----	----
Chromium, dissolved	7440-47-3	E421/VA	0.00050	mg/L		0.00390	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/VA	0.00010	mg/L		<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/VA	0.00020	mg/L		0.00145	----	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L		0.065	----	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L		<0.000050	----	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L		0.0029	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L		1.62	----	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L		0.00788	----	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Dissolved Metals										
Mercury, dissolved	7439-97-6	E509/VA	0.0000050	mg/L		<0.0000050	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/VA	0.000050	mg/L		0.0205	----	----	----	----
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		1.83	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L		0.00430	----	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.000050	mg/L		0.000093	----	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	0.050	mg/L		7.41	----	----	----	----
Silver, dissolved	7440-22-4	E421/VA	0.000010	mg/L		<0.000010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/VA	0.050	mg/L		6.70	----	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L		0.0860	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L		3.30	----	----	----	----
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		0.00038	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/VA	0.00010	mg/L		0.00030	----	----	----	----
Uranium, dissolved	7440-61-1	E421/VA	0.000010	mg/L		0.00380	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.00050	mg/L		0.00282	----	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	0.0010	mg/L		0.0040	----	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Dissolved Metals										
Zirconium, dissolved	7440-67-7	E421/VA	0.00020	mg/L		<0.00020	----	----	----	----
Dissolved mercury filtration location	----	EP509/VA	-	-		Field	----	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-		Field	----	----	----	----
Speciated Metals										
Chromium, hexavalent [Cr VI], total	18540-29-9	E532/VA	0.00050	mg/L		0.00325	<0.00050	----	----	----
Chromium, trivalent [Cr III], total	16065-83-1	EC535/VA	0.00050	mg/L		0.00089	<0.00050	----	----	----
Aggregate Organics										
Phenols, total (4AAP)	----	E562/EO	0.0010	mg/L		<0.0010	----	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Chloromethane	74-87-3	E611C/VA	5.0	µg/L		<5.0	<5.0	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloropropane, 1,2-	78-87-5	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611C/VA	0.75	µg/L		<0.75	<0.75	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C/VA	0.20	µg/L		<0.20	<0.20	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Trichlorofluoromethane	75-69-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Volatile Organic Compounds [Drycleaning]										
Carbon tetrachloride	56-23-5	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Chloroethane	75-00-3	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloroethane, 1,1-	75-34-3	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloroethane, 1,2-	107-06-2	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dichloromethane	75-09-2	E611C/VA	1.0	µg/L		<1.0	<1.0	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Tetrachloroethylene	127-18-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Trichloroethylene	79-01-6	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Vinyl chloride	75-01-4	E611C/VA	0.40	µg/L		<0.40	<0.40	----	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Ethylbenzene	100-41-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Styrene	100-42-5	E611C/VA	0.50	µg/L		1.92	<0.50	----	----	----
Toluene	108-88-3	E611C/VA	0.40	µg/L		<0.40	<0.40	----	----	----
Xylene, m+p-	179601-23-1	E611C/VA	0.40	µg/L		<0.40	<0.40	----	----	----
Xylene, o-	95-47-6	E611C/VA	0.30	µg/L		<0.30	<0.30	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Volatile Organic Compounds [Fuels]										
Xylenes, total	1330-20-7	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Bromoform	75-25-2	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Chloroform	67-66-3	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Dibromochloromethane	124-48-1	E611C/VA	0.50	µg/L		<0.50	<0.50	----	----	----
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	250	µg/L		<250	<250	----	----	----
EPH (C19-C32)	----	E601A/VA	250	µg/L		<250	<250	----	----	----
VHw (C6-C10)	----	E581.VH+F1/VA	100	µg/L		<100	<100	----	----	----
HEPHw	----	EC600A/VA	250	µg/L		<250	<250	----	----	----
LEPHw	----	EC600A/VA	250	µg/L		<250	<250	----	----	----
VPHw	----	EC580A/VA	100	µg/L		<100	<100	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%		84.8	81.7	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/VA	1.0	%		92.2	95.2	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611C/VA	1.0	%		95.0	94.4	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611C/VA	1.0	%		97.7	97.8	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthylene	208-96-8	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Acridine	260-94-6	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Anthracene	120-12-7	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Benz(a)anthracene	56-55-3	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(a)pyrene	50-32-8	E641A/VA	0.0050	µg/L		<0.0050	<0.0050	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/VA	0.015	µg/L		<0.015	<0.015	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Chrysene	218-01-9	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/VA	0.0050	µg/L		<0.0050	<0.0050	----	----	----
Fluoranthene	206-44-0	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Fluorene	86-73-7	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/VA	0.010	µg/L		0.022	<0.010	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/VA	0.010	µg/L		0.034	<0.010	----	----	----
Naphthalene	91-20-3	E641A/VA	0.050	µg/L		<0.050	<0.050	----	----	----
Phenanthrene	85-01-8	E641A/VA	0.020	µg/L		<0.020	<0.020	----	----	----
Pyrene	129-00-0	E641A/VA	0.010	µg/L		<0.010	<0.010	----	----	----
Quinoline	91-22-5	E641A/VA	0.050	µg/L		<0.050	<0.050	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG EOP	WLNG EOP Trip Blank	----	----	----
					Client sampling date / time	25-Feb-2025 09:45	25-Feb-2025 08:30	----	----	----
						VA25A4080-001	VA25A4080-002	----	----	----
						Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/VA	0.1	%		78.1	73.6	----	----	----
Naphthalene-d8	1146-65-2	E641A/VA	0.1	%		83.5	80.2	----	----	----
Phenanthrene-d10	1517-22-2	E641A/VA	0.1	%		82.6	77.2	----	----	----
Glycols										
Diethylene glycol	111-46-6	E680E/VA	5.0	mg/L		<5.0	<5.0	----	----	----
Ethylene glycol	107-21-1	E680E/VA	5.0	mg/L		<5.0	<5.0	----	----	----
Propylene glycol, 1,2-	57-55-6	E680E/VA	5.0	mg/L		<5.0	<5.0	----	----	----
Triethylene glycol	112-27-6	E680E/VA	5.0	mg/L		<5.0	<5.0	----	----	----
Glycols, total (EG+DEG+PG)	----	E680E/VA	10	mg/L		<10	<10	----	----	----
Glycols Surrogates										
Propanediol, 1,3-	504-63-2	E680E/VA	1.0	%		85.7	81.6	----	----	----

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

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **VA25A4080**	Page	: 1 of 16
Client	: **Triton Environmental Consultants Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact		Account Manager	:
Address		Address	:
Telephone	: ----	Telephone	:
Project	: 11964	Date Samples Received	: 25-Feb-2025 14:00
PO	: 11964 Task 40-Phase 3C-4C	Issue Date	: 06-Mar-2025 09:58
C-O-C number	: ----		
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

Key

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

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

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

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

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

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

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

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

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Phenols (4AAP) in Water by Colorimetry										
Amber glass total (sulfuric acid) WLNG EOP	E562	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG EOP	E298	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (lab preserved) WLNG EOP Trip Blank	E298	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG EOP	E235.Br-L	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG EOP Trip Blank	E235.Br-L	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG EOP	E235.Cl	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG EOP Trip Blank	E235.Cl	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG EOP	E235.F	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG EOP Trip Blank	E235.F	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO3-L	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	3 days	2 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE WLNG EOP Trip Blank	E235.NO3-L	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE WLNG EOP	E235.NO2-L	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	3 days	2 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE WLNG EOP Trip Blank	E235.NO2-L	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	3 days	2 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WLNG EOP	E235.SO4	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE WLNG EOP Trip Blank	E235.SO4	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid) WLNG EOP	E366	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (lab preserved)										
WLNG EOP Trip Blank	E366	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	27-Feb-2025	28 days	1 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
WLNG EOP	E372-U	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (lab preserved)										
WLNG EOP Trip Blank	E372-U	25-Feb-2025	27-Feb-2025	3 days	2 days	✓	28-Feb-2025	28 days	2 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WLNG EOP	E509	25-Feb-2025	03-Mar-2025	28 days	6 days	✓	03-Mar-2025	28 days	6 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
WLNG EOP	E421	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid)										
WLNG EOP	EF001	25-Feb-2025	----	----	----		27-Feb-2025	----	2 days	
Glycols : Glycols (4 analytes) by GC-FID										
Glass vial										
WLNG EOP	E680E	25-Feb-2025	02-Mar-2025	7 days	5 days	✓	02-Mar-2025	40 days	0 days	✓
Glycols : Glycols (4 analytes) by GC-FID										
Glass vial										
WLNG EOP Trip Blank	E680E	25-Feb-2025	02-Mar-2025	7 days	5 days	✓	02-Mar-2025	40 days	0 days	✓
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
WLNG EOP	E601A	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	06-Mar-2025	40 days	5 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate)										
WLNG EOP Trip Blank	E601A	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	06-Mar-2025	40 days	5 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate)										
WLNG EOP	E581.VH+F1	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	02-Mar-2025	14 days	5 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate)										
WLNG EOP Trip Blank	E581.VH+F1	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	02-Mar-2025	14 days	5 days	✓
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (field filtered/sulfuric acid)										
WLNG EOP	E358-L	25-Feb-2025	27-Feb-2025	28 days	2 days	✓	27-Feb-2025	28 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WLNG EOP	E290	25-Feb-2025	27-Feb-2025	14 days	2 days	✓	27-Feb-2025	14 days	2 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WLNG EOP Trip Blank	E290	25-Feb-2025	27-Feb-2025	14 days	2 days	✓	27-Feb-2025	14 days	2 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
WLNG EOP	E162	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
WLNG EOP Trip Blank	E162	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
WLNG EOP	E160	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE										
WLNG EOP Trip Blank	E160	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
WLNG EOP	E641A	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	01-Mar-2025	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate)										
WLNG EOP Trip Blank	E641A	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	01-Mar-2025	40 days	0 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
WLNG EOP	E532	25-Feb-2025	----	----	----		27-Feb-2025	28 days	2 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
WLNG EOP Trip Blank	E532	25-Feb-2025	----	----	----		27-Feb-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
WLNG EOP	E508	25-Feb-2025	04-Mar-2025	28 days	7 days	✓	04-Mar-2025	28 days	7 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved)										
WLNG EOP Trip Blank	E508	25-Feb-2025	04-Mar-2025	28 days	7 days	✓	04-Mar-2025	28 days	7 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WLNG EOP	E420	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved)										
WLNG EOP Trip Blank	E420	25-Feb-2025	27-Feb-2025	180 days	2 days	✓	28-Feb-2025	180 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide)										
WLNG EOP	E395	25-Feb-2025	----	----	----		26-Feb-2025	7 days	1 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide)										
WLNG EOP Trip Blank	E395	25-Feb-2025	----	----	----		26-Feb-2025	7 days	1 days	✓
Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
WLNG EOP	E611C	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	02-Mar-2025	14 days	5 days	✓
Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS										
Glass vial (sodium bisulfate)										
WLNG EOP Trip Blank	E611C	25-Feb-2025	01-Mar-2025	14 days	4 days	✓	02-Mar-2025	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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1888695	1	8	12.5	5.0	✓
Chloride in Water by IC	E235.Cl	1888690	1	16	6.2	5.0	✓
Fluoride in Water by IC	E235.F	1888694	1	8	12.5	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1888692	1	16	6.2	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1888691	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1888693	1	19	5.2	5.0	✓
Alkalinity Species by Titration	E290	1888700	1	16	6.2	5.0	✓
Ammonia by Fluorescence	E298	1888482	1	18	5.5	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1888483	1	16	6.2	5.0	✓
Total Nitrogen by Colourimetry	E366	1888480	1	7	14.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1888481	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1887916	2	32	6.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887573	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1893892	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1893274	1	3	33.3	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1889835	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1891551	1	11	9.0	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1891553	1	14	7.1	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1892272	1	8	12.5	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1888695	1	8	12.5	5.0	✓
Chloride in Water by IC	E235.Cl	1888690	1	16	6.2	5.0	✓
Fluoride in Water by IC	E235.F	1888694	1	8	12.5	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1888692	1	16	6.2	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1888691	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1888693	1	19	5.2	5.0	✓
Alkalinity Species by Titration	E290	1888700	1	16	6.2	5.0	✓
Ammonia by Fluorescence	E298	1888482	1	18	5.5	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1888483	1	16	6.2	5.0	✓
Total Nitrogen by Colourimetry	E366	1888480	1	7	14.2	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1888481	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1887916	2	32	6.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887573	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1893892	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1893274	1	3	33.3	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1889835	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1891551	1	11	9.0	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1891479	1	19	5.2	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1891553	1	14	7.1	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1891478	1	12	8.3	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1892272	1	8	12.5	5.0	✓
Method Blanks (MB)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1888695	1	8	12.5	5.0	✓
Chloride in Water by IC	E235.Cl	1888690	1	16	6.2	5.0	✓
Fluoride in Water by IC	E235.F	1888694	1	8	12.5	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1888692	1	16	6.2	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1888691	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1888693	1	19	5.2	5.0	✓
Alkalinity Species by Titration	E290	1888700	1	16	6.2	5.0	✓
Ammonia by Fluorescence	E298	1888482	1	18	5.5	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1888483	1	16	6.2	5.0	✓
Total Nitrogen by Colourimetry	E366	1888480	1	7	14.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1888481	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1887916	2	32	6.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887573	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1893892	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1893274	1	3	33.3	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1889835	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1891551	1	11	9.0	5.0	✓
BC PHCs - EPH by GC-FID	E601A	1891479	1	19	5.2	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1891553	1	14	7.1	5.0	✓
PAHs in Water by Hexane LVI GC-MS	E641A	1891478	1	12	8.3	5.0	✓
Glycols (4 analytes) by GC-FID	E680E	1892272	1	8	12.5	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS)							
Bromide in Water by IC (Low Level)	E235.Br-L	1888695	1	8	12.5	5.0	✓
Chloride in Water by IC	E235.Cl	1888690	1	16	6.2	5.0	✓
Fluoride in Water by IC	E235.F	1888694	1	8	12.5	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1888692	1	16	6.2	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1888691	1	16	6.2	5.0	✓
Sulfate in Water by IC	E235.SO4	1888693	1	19	5.2	5.0	✓
Ammonia by Fluorescence	E298	1888482	1	18	5.5	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1888483	1	16	6.2	5.0	✓
Total Nitrogen by Colourimetry	E366	1888480	1	7	14.2	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1888481	1	12	8.3	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1887916	2	32	6.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887573	1	20	5.0	5.0	✓
Total Mercury in Water by CVAAS	E508	1893892	1	20	5.0	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1893274	1	3	33.3	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Phenols (4AAP) in Water by Colorimetry	E562	1889835	1	20	5.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	1891551	1	11	9.0	5.0	✓
VOCs (BC List) by Headspace GC-MS	E611C	1891553	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 ± 1°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 ± 2°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 CO2. 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 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 methlyene blue colourimetric method. Results expressed "as H2S" if reported represent the maximum possible H2S concentration based on the total sulfide concentration in the sample. The H2S calculation converts Total Sulphide as (S2-) and reports it as Total Sulphide as (H2S)
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.
Phenols (4AAP) in Water by Colorimetry	E562 ALS Environmental - Edmonton	Water	EPA 9066	This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide ($K_3Fe(CN)_6$) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.
VH and F1 by Headspace GC-FID	E581.VH+F1 ALS Environmental - Vancouver	Water	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BC PHCs - EPH by GC-FID	E601A ALS Environmental - Vancouver	Water	BC MOE Lab Manual	Sample extracts are analyzed by GC-FID for BC hydrocarbon fractions.
VOCs (BC List) by Headspace GC-MS	E611C ALS Environmental - Vancouver	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Total Xylenes is the sum of m,p-Xylene & o-Xylene. Total BTEX is the sum of Benzene, Toluene, Ethylbenzene, & Total Xylenes. Total BTEX+Styrene is the sum of Total BTEX & Styrene. Total Trihalomethanes [THMs] is the sum of Bromodichloromethane, Bromoform, Chloroform, & Dibromochloromethane.
PAHs in Water by Hexane LVI GC-MS	E641A ALS Environmental - Vancouver	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
Glycols (4 analytes) by GC-FID	E680E ALS Environmental - Vancouver	Water	EPA 8015D (mod)	Derivatized glycols are analyzed by GC-FID.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as $CaCO_3$), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in $CaCO_3$ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO3 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.
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, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine	EF001 ALS Environmental - Vancouver	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3 or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.

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

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO3.
Dissolved Mercury Water Filtration	EP509 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HCl.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Vancouver	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Vancouver	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.
Glycols Extraction and Derivatization (BC Only)	EP680E ALS Environmental - Vancouver	Water	EPA 8015D (mod)	Aqueous sample is derivatized and extracted with orgaic solvent.

QUALITY CONTROL REPORT

Work Order	: **VA25A4080**	Page	: 1 of 27
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact		Account Manager	:
Address		Address	:
Telephone		Telephone	:
Project	: 11964	Date Samples Received	: 25-Feb-2025 14:00
PO	: 11964 Task 40-Phase 3C-4C	Date Analysis Commenced	: 26-Feb-2025
C-O-C number	: ----	Issue Date	: 06-Mar-2025 09:59
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Ilnaz Badbezanchi	Supervisor - Metals Prep	Vancouver Metals, Burnaby, British Columbia
Janice Leung	Supervisor - Organics Instrumentation	Vancouver Organics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Vancouver Metals, Burnaby, British Columbia
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Ping Yeung	Team Leader - Inorganics	Edmonton Inorganics, Edmonton, Alberta
Tracy Harley	Supervisor - Water Quality Instrumentation	Vancouver Inorganics, Burnaby, British Columbia

General Comments

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

Key :

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

Workorder Comments

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

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 1888700)											
VA25A4052-003	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	374	374	0.0802%	20%	----
Physical Tests (QC Lot: 1893373)											
FJ2500633-001	Anonymous	Solids, total suspended [TSS]	----	E160	7.5	mg/L	2160	2130	1.26%	20%	----
Physical Tests (QC Lot: 1893374)											
FJ2500633-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	642	638	0.781%	20%	----
Anions and Nutrients (QC Lot: 1888480)											
VA25A3425-001	Anonymous	Nitrogen, total	7727-37-9	E366	3.00	mg/L	12.9	13.3	0.416	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1888481)											
VA25A3425-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.522	0.523	0.260%	20%	----
Anions and Nutrients (QC Lot: 1888482)											
VA25A3425-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0250	mg/L	0.389	0.398	2.19%	20%	----
Anions and Nutrients (QC Lot: 1888690)											
VA25A4059-001	Anonymous	Chloride	16887-00-6	E235.Cl	0.50	mg/L	6.35	6.40	0.697%	20%	----
Anions and Nutrients (QC Lot: 1888691)											
VA25A4059-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0050	mg/L	0.696	0.696	0.0481%	20%	----
Anions and Nutrients (QC Lot: 1888692)											
VA25A4059-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1888693)											
VA25A4059-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	8.16	8.24	1.03%	20%	----
Anions and Nutrients (QC Lot: 1888694)											
VA25A4059-001	Anonymous	Fluoride	16984-48-8	E235.F	0.020	mg/L	0.058	0.057	0.0009	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1888695)											
VA25A4059-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
Organic / Inorganic Carbon (QC Lot: 1888483)											
VA25A3425-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	3.94	4.25	0.30	Diff <2x LOR	----
Total Sulfides (QC Lot: 1888144)											
VA25A3933-001	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: 1887916)											
VA25A3600-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0261	0.0302	0.0041	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00072	0.00072	0.00000003	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: 1887916) - continued											
VA25A3600-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00666	0.00660	0.858%	20%	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.167	0.168	0.117%	20%	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.0000404	0.0000383	0.0000021	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	101	104	3.15%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000096	0.000101	0.000005	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	1.39	1.38	0.609%	20%	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00138	0.00131	0.00007	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.270	0.268	0.891%	20%	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.000159	0.000162	0.000003	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0226	0.0243	7.01%	20%	----
		Magnesium, total	7439-95-4	E420	0.100	mg/L	36.9	37.1	0.510%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.393	0.397	0.882%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00180	0.00185	2.44%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.318	0.320	0.888%	20%	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.100	mg/L	3.58	3.60	0.648%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00343	0.00345	0.658%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.0141	0.0147	3.96%	20%	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	6.88	6.86	0.253%	20%	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	0.0152	0.0151	0.424%	20%	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	29.8	30.1	0.892%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.587	0.588	0.130%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	100	100	0.0519%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	0.000011	0.000012	0.0000004	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	0.00120	mg/L	<0.00120	<0.00120	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	0.00563	0.00561	0.233%	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: 1887916) - continued											
VA25A3600-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0184	0.0188	0.0004	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: 1888139)											
KS2500640-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00114	0.00117	2.25%	20%	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.00660	0.00664	0.652%	20%	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	62.9	63.4	0.904%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000018	0.000018	0.0000001	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	0.00346	0.00346	0.0000008	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.031	0.031	0.0003	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	0.0023	0.0023	0.00005	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	14.9	15.1	1.73%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0129	0.0130	0.877%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.00252	0.00255	1.13%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.064	0.059	0.005	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	3.45	3.48	0.831%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00226	0.00218	3.97%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	11.4	11.3	1.21%	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	6.16	6.21	0.912%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.352	0.360	2.12%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	13.8	13.6	1.16%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Total Metals (QC Lot: 1888139) - continued											
KS2500640-001	Anonymous	Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000014	0.000013	0.000001	Diff <2x LOR	----
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Total Metals (QC Lot: 1893892)											
VA25A4045-009	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000097	0.0000082	0.0000016	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1887573)											
VA25A4030-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0013	0.0012	0.0001	Diff <2x LOR	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0185	0.0193	4.44%	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	0.059	0.060	0.001	Diff <2x LOR	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	66.0	68.0	3.07%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00027	0.00027	0.000003	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	3.83	3.76	1.76%	20%	----
		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	0.0285	0.0299	4.84%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	7.46	7.51	0.720%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.110	0.109	0.508%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.00563	0.00569	0.958%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	0.00058	0.00058	0.000003	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	6.30	6.31	0.277%	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: 1887573) - continued											
VA25A4030-001	Anonymous	Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00279	0.00281	0.896%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	5.53	5.60	1.20%	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	20.2	20.0	0.758%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.289	0.286	1.11%	20%	----
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	13.7	13.8	0.317%	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	0.000078	0.000081	0.000004	Diff <2x LOR	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0012	0.0012	0.00001	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: 1893274)											
VA25A4072-016	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1890023)											
FJ2500546-013	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 1889835)											
CG2502107-007	Anonymous	Phenols, total (4AAP)	----	E562	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1891553)											
VA25A4033-001	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	----

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: 1891553) - continued											
VA25A4033-001	Anonymous	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	----
		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: 1891551)											
KS2500624-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	<100	0.0%	30%	----
Glycols (QC Lot: 1892272)											
VA25A3929-001	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	19.3	19.1	0.2	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: 1888700)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1893373)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1893374)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1888480)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1888481)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Anions and Nutrients (QCLot: 1888482)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1888690)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1888691)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1888692)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1888693)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1888694)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1888695)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Organic / Inorganic Carbon (QCLot: 1888483)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1888144)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1887916)						
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	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1887916) - continued						
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
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	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1887916) - continued						
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Total Metals (QCLot: 1888139)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 1888139) - continued						
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: 1893892)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1887573)						
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	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1887573) - continued						
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Dissolved Metals (QCLot: 1893274)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1890023)						
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	<0.00050	----
Aggregate Organics (QCLot: 1889835)						
Phenols, total (4AAP)	----	E562	0.001	mg/L	<0.0010	----
Volatile Organic Compounds (QCLot: 1891553)						
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	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1891553) - continued						
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, 1,1,1,2-	630-20-6	E611C	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.2	µg/L	<0.20	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611C	0.4	µg/L	<0.40	----
Trichloroethane, 1,1,1-	71-55-6	E611C	0.5	µg/L	<0.50	----
Trichloroethane, 1,1,2-	79-00-5	E611C	0.5	µg/L	<0.50	----
Trichloroethylene	79-01-6	E611C	0.5	µg/L	<0.50	----
Trichlorofluoromethane	75-69-4	E611C	0.5	µg/L	<0.50	----
Vinyl chloride	75-01-4	E611C	0.4	µg/L	<0.40	----
Xylene, m+p-	179601-23-1	E611C	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611C	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1891479)						
EPH (C10-C19)	----	E601A	250	µg/L	<250	----
EPH (C19-C32)	----	E601A	250	µg/L	<250	----
Hydrocarbons (QCLot: 1891551)						
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1891478)						
Acenaphthene	83-32-9	E641A	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	<0.010	----
Acridine	260-94-6	E641A	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641A	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	<0.010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1891478) - continued						
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: 1892272)						
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: 1888700)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	107	85.0	115	----
Physical Tests (QCLot: 1893373)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	91.5	85.0	115	----
Physical Tests (QCLot: 1893374)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	98.8	85.0	115	----
Anions and Nutrients (QCLot: 1888480)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	98.6	75.0	125	----
Anions and Nutrients (QCLot: 1888481)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	100	80.0	120	----
Anions and Nutrients (QCLot: 1888482)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	94.9	85.0	115	----
Anions and Nutrients (QCLot: 1888690)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1888691)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1888692)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	99.9	90.0	110	----
Anions and Nutrients (QCLot: 1888693)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	102	90.0	110	----
Anions and Nutrients (QCLot: 1888694)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1888695)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	108	85.0	115	----
Organic / Inorganic Carbon (QCLot: 1888483)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	97.0	80.0	120	----
Total Sulfides (QCLot: 1888144)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	109	80.0	120	----
Total Metals (QCLot: 1887916)									

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: 1887916) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	98.1	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	96.8	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	100	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	95.4	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	96.5	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	101	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	97.0	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	96.0	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	97.0	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	97.6	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	97.5	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	96.3	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	93.6	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	98.6	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	98.9	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	94.7	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	96.8	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	98.0	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	95.3	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	97.4	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	96.5	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	97.0	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	103	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	90.2	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	95.9	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	97.7	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	86.5	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	96.2	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	101	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	98.3	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	96.4	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	100	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	101	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	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: 1887916) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	97.2	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	92.5	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	93.5	80.0	120	----
Total Metals (QCLot: 1888139)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	98.5	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	104	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	98.4	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	95.3	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	98.6	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	90.2	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	91.2	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	96.9	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	103	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	96.7	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	93.2	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	93.5	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	99.4	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	101	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	101	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	93.2	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	95.8	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	101	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	91.9	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	97.2	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	97.3	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	95.8	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	98.4	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	100	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	92.8	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	98.1	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	90.6	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	101	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	102	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	98.2	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1888139) - continued									
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	93.3	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	89.5	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	99.2	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	97.6	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	95.5	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	90.6	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	97.7	80.0	120	----
Total Metals (QCLot: 1893892)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	88.9	80.0	120	----
Dissolved Metals (QCLot: 1887573)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	104	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	98.1	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	106	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	98.1	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	98.0	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	93.8	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	86.2	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	98.1	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	93.4	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	95.3	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	99.8	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	99.2	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	98.7	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	98.1	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	96.4	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	94.1	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	99.3	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	98.3	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	115	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	101	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	98.9	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	96.1	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	102	80.0	120	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike: Target Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Dissolved Metals (QCLot: 1887573) - continued									
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	89.2	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	102	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	96.9	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	93.1	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	94.4	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	95.4	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	93.9	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	94.0	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	95.0	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	96.3	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	96.1	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	95.4	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	92.7	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	93.5	80.0	120	----
Speciated Metals (QCLot: 1890023)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	96.1	80.0	120	----
Aggregate Organics (QCLot: 1889835)									
Phenols, total (4AAP)	----	E562	0.001	mg/L	0.02 mg/L	94.5	85.0	115	----
Volatile Organic Compounds (QCLot: 1891553)									
Benzene	71-43-2	E611C	0.5	µg/L	100 µg/L	103	70.0	130	----
Bromodichloromethane	75-27-4	E611C	0.5	µg/L	100 µg/L	95.6	70.0	130	----
Bromoform	75-25-2	E611C	0.5	µg/L	100 µg/L	70.1	70.0	130	----
Carbon tetrachloride	56-23-5	E611C	0.5	µg/L	100 µg/L	85.1	70.0	130	----
Chlorobenzene	108-90-7	E611C	0.5	µg/L	100 µg/L	106	70.0	130	----
Chloroethane	75-00-3	E611C	0.5	µg/L	100 µg/L	130	60.0	140	----
Chloroform	67-66-3	E611C	0.5	µg/L	100 µg/L	102	70.0	130	----
Chloromethane	74-87-3	E611C	5	µg/L	100 µg/L	129	60.0	140	----
Dibromochloromethane	124-48-1	E611C	0.5	µg/L	100 µg/L	81.5	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611C	0.5	µg/L	100 µg/L	103	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611C	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611C	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloroethane, 1,1-	75-34-3	E611C	0.5	µg/L	100 µg/L	106	70.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1891553) - continued									
Dichloroethane, 1,2-	107-06-2	E611C	0.5	µg/L	100 µg/L	90.6	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611C	0.5	µg/L	100 µg/L	115	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611C	0.5	µg/L	100 µg/L	107	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611C	0.5	µg/L	100 µg/L	116	70.0	130	----
Dichloromethane	75-09-2	E611C	1	µg/L	100 µg/L	108	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611C	0.5	µg/L	100 µg/L	104	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611C	0.5	µg/L	100 µg/L	89.5	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611C	0.5	µg/L	100 µg/L	80.9	70.0	130	----
Ethylbenzene	100-41-4	E611C	0.5	µg/L	100 µg/L	101	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	0.5	µg/L	100 µg/L	106	70.0	130	----
Styrene	100-42-5	E611C	0.5	µg/L	100 µg/L	97.3	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	0.5	µg/L	100 µg/L	91.0	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	0.2	µg/L	100 µg/L	102	70.0	130	----
Tetrachloroethylene	127-18-4	E611C	0.5	µg/L	100 µg/L	92.3	70.0	130	----
Toluene	108-88-3	E611C	0.4	µg/L	100 µg/L	106	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611C	0.5	µg/L	100 µg/L	97.0	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611C	0.5	µg/L	100 µg/L	101	70.0	130	----
Trichloroethylene	79-01-6	E611C	0.5	µg/L	100 µg/L	93.9	70.0	130	----
Trichlorofluoromethane	75-69-4	E611C	0.5	µg/L	100 µg/L	112	60.0	140	----
Vinyl chloride	75-01-4	E611C	0.4	µg/L	100 µg/L	126	60.0	140	----
Xylene, m+p-	179601-23-1	E611C	0.4	µg/L	200 µg/L	103	70.0	130	----
Xylene, o-	95-47-6	E611C	0.3	µg/L	100 µg/L	99.6	70.0	130	----
Hydrocarbons (QCLot: 1891479)									
EPH (C10-C19)	----	E601A	250	µg/L	6490 µg/L	100	70.0	130	----
EPH (C19-C32)	----	E601A	250	µg/L	3360 µg/L	103	70.0	130	----
Hydrocarbons (QCLot: 1891551)									
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	6310 µg/L	85.0	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1891478)									
Acenaphthene	83-32-9	E641A	0.01	µg/L	0.5 µg/L	108	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.01	µg/L	0.5 µg/L	101	60.0	130	----
Acridine	260-94-6	E641A	0.01	µg/L	0.5 µg/L	108	60.0	130	----
Anthracene	120-12-7	E641A	0.01	µg/L	0.5 µg/L	104	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.01	µg/L	0.5 µg/L	101	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.005	µg/L	0.5 µg/L	102	60.0	130	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1891478) - continued									
Benzo(b+j)fluoranthene	n/a	E641A	0.01	µg/L	0.5 µg/L	96.0	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.01	µg/L	0.5 µg/L	115	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.01	µg/L	0.5 µg/L	104	60.0	130	----
Chrysene	218-01-9	E641A	0.01	µg/L	0.5 µg/L	106	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.005	µg/L	0.5 µg/L	112	60.0	130	----
Fluoranthene	206-44-0	E641A	0.01	µg/L	0.5 µg/L	106	60.0	130	----
Fluorene	86-73-7	E641A	0.01	µg/L	0.5 µg/L	97.7	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.01	µg/L	0.5 µg/L	112	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.01	µg/L	0.5 µg/L	96.0	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.01	µg/L	0.5 µg/L	110	60.0	130	----
Naphthalene	91-20-3	E641A	0.05	µg/L	0.5 µg/L	97.5	50.0	130	----
Phenanthrene	85-01-8	E641A	0.02	µg/L	0.5 µg/L	107	60.0	130	----
Pyrene	129-00-0	E641A	0.01	µg/L	0.5 µg/L	106	60.0	130	----
Quinoline	91-22-5	E641A	0.05	µg/L	0.5 µg/L	117	60.0	130	----
Glycols (QCLot: 1892272)									
Diethylene glycol	111-46-6	E680E	5	mg/L	25 mg/L	94.8	70.0	130	----
Ethylene glycol	107-21-1	E680E	5	mg/L	25 mg/L	91.9	70.0	130	----
Propylene glycol, 1,2-	57-55-6	E680E	5	mg/L	25 mg/L	90.5	70.0	130	----
Triethylene glycol	112-27-6	E680E	5	mg/L	25 mg/L	72.6	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: 1888480)										
VA25A3814-001	Anonymous	Nitrogen, total	7727-37-9	E366	40.6 mg/L	40 mg/L	102	70.0	130	----
Anions and Nutrients (QCLot: 1888481)										
VA25A3814-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	ND mg/L	----	ND	70.0	130	----
Anions and Nutrients (QCLot: 1888482)										
VA25A3650-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0953 mg/L	0.1 mg/L	95.3	75.0	125	----
Anions and Nutrients (QCLot: 1888690)										
VA25A4059-002	Anonymous	Chloride	16887-00-6	E235.Cl	102 mg/L	100 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1888691)										
VA25A4059-002	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	2.49 mg/L	2.5 mg/L	99.8	75.0	125	----
Anions and Nutrients (QCLot: 1888692)										
VA25A4059-002	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.510 mg/L	0.5 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1888693)										
VA25A4059-002	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	101 mg/L	100 mg/L	101	75.0	125	----
Anions and Nutrients (QCLot: 1888694)										
VA25A4059-002	Anonymous	Fluoride	16984-48-8	E235.F	1.03 mg/L	1 mg/L	103	75.0	125	----
Anions and Nutrients (QCLot: 1888695)										
VA25A4059-002	Anonymous	Bromide	24959-67-9	E235.Br-L	0.554 mg/L	0.5 mg/L	111	75.0	125	----
Organic / Inorganic Carbon (QCLot: 1888483)										
VA25A3650-001	Anonymous	Carbon, dissolved organic [DOC]	----	E358-L	5.22 mg/L	5 mg/L	104	70.0	130	----
Total Sulfides (QCLot: 1888144)										
VA25A3933-002	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.220 mg/L	0.2 mg/L	110	75.0	125	----
Total Metals (QCLot: 1887916)										
VA25A3879-002	Anonymous	Aluminum, total	7429-90-5	E420	0.396 mg/L	0.4 mg/L	99.0	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0370 mg/L	0.04 mg/L	92.4	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0420 mg/L	0.04 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	0.0740 mg/L	0.08 mg/L	92.5	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.0185 mg/L	0.02 mg/L	92.4	70.0	130	----
		Boron, total	7440-42-8	E420	0.190 mg/L	0.2 mg/L	95.3	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00748 mg/L	0.008 mg/L	93.5	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.0191 mg/L	0.02 mg/L	95.4	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0781 mg/L	0.08 mg/L	97.6	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: 1887916) - continued										
VA25A3879-002	Anonymous	Cobalt, total	7440-48-4	E420	ND mg/L	----	ND	70.0	130	----
		Copper, total	7440-50-8	E420	0.0360 mg/L	0.04 mg/L	89.9	70.0	130	----
		Iron, total	7439-89-6	E420	3.69 mg/L	4 mg/L	92.2	70.0	130	----
		Lead, total	7439-92-1	E420	0.0363 mg/L	0.04 mg/L	90.8	70.0	130	----
		Lithium, total	7439-93-2	E420	0.193 mg/L	0.2 mg/L	96.4	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	0.0384 mg/L	0.04 mg/L	95.9	70.0	130	----
		Nickel, total	7440-02-0	E420	ND mg/L	----	ND	70.0	130	----
		Phosphorus, total	7723-14-0	E420	21.6 mg/L	20 mg/L	108	70.0	130	----
		Potassium, total	7440-09-7	E420	8.43 mg/L	8 mg/L	105	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0389 mg/L	0.04 mg/L	97.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0816 mg/L	0.08 mg/L	102	70.0	130	----
		Silicon, total	7440-21-3	E420	19.4 mg/L	20 mg/L	97.1	70.0	130	----
		Silver, total	7440-22-4	E420	ND mg/L	----	ND	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	ND mg/L	----	ND	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0741 mg/L	0.08 mg/L	92.7	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00737 mg/L	0.008 mg/L	92.2	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0388 mg/L	0.04 mg/L	97.0	70.0	130	----
		Tin, total	7440-31-5	E420	0.0374 mg/L	0.04 mg/L	93.5	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0800 mg/L	0.08 mg/L	100.0	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0389 mg/L	0.04 mg/L	97.3	70.0	130	----
		Uranium, total	7440-61-1	E420	ND mg/L	----	ND	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.198 mg/L	0.2 mg/L	99.1	70.0	130	----
		Zinc, total	7440-66-6	E420	0.705 mg/L	0.8 mg/L	88.1	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0768 mg/L	0.08 mg/L	96.0	70.0	130	----
Total Metals (QCLot: 1888139)										
KS2500641-001	Anonymous	Aluminum, total	7429-90-5	E420	0.182 mg/L	0.2 mg/L	91.2	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0189 mg/L	0.02 mg/L	94.7	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0189 mg/L	0.02 mg/L	94.5	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0378 mg/L	0.04 mg/L	94.5	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00915 mg/L	0.01 mg/L	91.5	70.0	130	----
		Boron, total	7440-42-8	E420	0.096 mg/L	0.1 mg/L	96.0	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00367 mg/L	0.004 mg/L	91.8	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.0101 mg/L	0.01 mg/L	101	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0375 mg/L	0.04 mg/L	93.8	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0176 mg/L	0.02 mg/L	88.0	70.0	130	----
		Copper, total	7440-50-8	E420	ND mg/L	----	ND	70.0	130	----
		Iron, total	7439-89-6	E420	1.82 mg/L	2 mg/L	91.2	70.0	130	----
		Lead, total	7439-92-1	E420	0.0180 mg/L	0.02 mg/L	90.1	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1888139) - continued										
KS2500641-001	Anonymous	Lithium, total	7439-93-2	E420	0.0942 mg/L	0.1 mg/L	94.2	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	0.0194 mg/L	0.02 mg/L	97.2	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0345 mg/L	0.04 mg/L	86.2	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.36 mg/L	10 mg/L	93.6	70.0	130	----
		Potassium, total	7440-09-7	E420	3.25 mg/L	4 mg/L	81.3	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0181 mg/L	0.02 mg/L	90.6	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	----
		Silicon, total	7440-21-3	E420	ND mg/L	----	ND	70.0	130	----
		Silver, total	7440-22-4	E420	0.00374 mg/L	0.004 mg/L	93.5	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	19.6 mg/L	20 mg/L	98.0	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0378 mg/L	0.04 mg/L	94.4	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00362 mg/L	0.004 mg/L	90.5	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0200 mg/L	0.02 mg/L	100	70.0	130	----
		Tin, total	7440-31-5	E420	0.0188 mg/L	0.02 mg/L	94.0	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0373 mg/L	0.04 mg/L	93.3	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0190 mg/L	0.02 mg/L	94.9	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00371 mg/L	0.004 mg/L	92.8	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0926 mg/L	0.1 mg/L	92.6	70.0	130	----
		Zinc, total	7440-66-6	E420	0.346 mg/L	0.4 mg/L	86.4	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0395 mg/L	0.04 mg/L	98.7	70.0	130	----
Total Metals (QCLot: 1893892)										
VA25A4045-010	Anonymous	Mercury, total	7439-97-6	E508	0.0000897 mg/L	0 mg/L	89.7	70.0	130	----
Dissolved Metals (QCLot: 1887573)										
VA25A4030-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.194 mg/L	0.2 mg/L	96.8	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0187 mg/L	0.02 mg/L	93.7	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0199 mg/L	0.02 mg/L	99.7	70.0	130	----
		Barium, dissolved	7440-39-3	E421	0.0179 mg/L	0.02 mg/L	89.5	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0362 mg/L	0.04 mg/L	90.6	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00881 mg/L	0.01 mg/L	88.1	70.0	130	----
		Boron, dissolved	7440-42-8	E421	0.084 mg/L	0.1 mg/L	83.6	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00355 mg/L	0.004 mg/L	88.7	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00948 mg/L	0.01 mg/L	94.8	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0368 mg/L	0.04 mg/L	92.1	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0177 mg/L	0.02 mg/L	88.6	70.0	130	----
		Copper, dissolved	7440-50-8	E421	0.0176 mg/L	0.02 mg/L	88.2	70.0	130	----
		Iron, dissolved	7439-89-6	E421	ND mg/L	----	ND	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0183 mg/L	0.02 mg/L	91.5	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0859 mg/L	0.1 mg/L	85.9	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1887573) - continued										
VA25A4030-002	Anonymous	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	0.0188 mg/L	0.02 mg/L	94.1	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0359 mg/L	0.04 mg/L	89.8	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	9.17 mg/L	10 mg/L	91.7	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0184 mg/L	0.02 mg/L	91.9	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0381 mg/L	0.04 mg/L	95.2	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	9.18 mg/L	10 mg/L	91.8	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00331 mg/L	0.004 mg/L	82.8	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	21.9 mg/L	20 mg/L	110	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0380 mg/L	0.04 mg/L	95.1	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00368 mg/L	0.004 mg/L	92.0	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0193 mg/L	0.02 mg/L	96.6	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0350 mg/L	0.04 mg/L	87.6	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	0.00378 mg/L	0.004 mg/L	94.4	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0928 mg/L	0.1 mg/L	92.8	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.359 mg/L	0.4 mg/L	89.8	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0364 mg/L	0.04 mg/L	91.1	70.0	130	----
Dissolved Metals (QCLot: 1893274)										
VA25A4072-017	Anonymous	Mercury, dissolved	7439-97-6	E509	0.0000904 mg/L	0 mg/L	90.4	70.0	130	----
Speciated Metals (QCLot: 1890023)										
FJ2500546-014	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.246 mg/L	0.25 mg/L	98.5	70.0	130	----
Aggregate Organics (QCLot: 1889835)										
CG2502107-007	Anonymous	Phenols, total (4AAP)	----	E562	0.0195 mg/L	0.02 mg/L	97.3	75.0	125	----
Volatile Organic Compounds (QCLot: 1891553)										
VA25A4080-001	WLNG EOP	Benzene	71-43-2	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Bromodichloromethane	75-27-4	E611C	95.1 µg/L	100 µg/L	95.1	60.0	140	----
		Bromoform	75-25-2	E611C	65.1 µg/L	100 µg/L	65.1	60.0	140	----
		Carbon tetrachloride	56-23-5	E611C	83.2 µg/L	100 µg/L	83.2	60.0	140	----
		Chlorobenzene	108-90-7	E611C	104 µg/L	100 µg/L	104	60.0	140	----
		Chloroethane	75-00-3	E611C	119 µg/L	100 µg/L	119	50.0	150	----
		Chloroform	67-66-3	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Chloromethane	74-87-3	E611C	112 µg/L	100 µg/L	112	50.0	150	----
		Dibromochloromethane	124-48-1	E611C	80.8 µg/L	100 µg/L	80.8	60.0	140	----
		Dichlorobenzene, 1,2-	95-50-1	E611C	101 µg/L	100 µg/L	101	60.0	140	----
		Dichlorobenzene, 1,3-	541-73-1	E611C	103 µg/L	100 µg/L	103	60.0	140	----
		Dichlorobenzene, 1,4-	106-46-7	E611C	104 µg/L	100 µg/L	104	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: 1891553) - continued										
VA25A4080-001	WLNG EOP	Dichloroethane, 1,1-	75-34-3	E611C	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloroethane, 1,2-	107-06-2	E611C	90.2 µg/L	100 µg/L	90.2	60.0	140	----
		Dichloroethylene, 1,1-	75-35-4	E611C	108 µg/L	100 µg/L	108	60.0	140	----
		Dichloroethylene, cis-1,2-	156-59-2	E611C	105 µg/L	100 µg/L	105	60.0	140	----
		Dichloroethylene, trans-1,2-	156-60-5	E611C	114 µg/L	100 µg/L	114	60.0	140	----
		Dichloromethane	75-09-2	E611C	105 µg/L	100 µg/L	105	60.0	140	----
		Dichloropropane, 1,2-	78-87-5	E611C	103 µg/L	100 µg/L	103	60.0	140	----
		Dichloropropylene, cis-1,3-	10061-01-5	E611C	90.6 µg/L	100 µg/L	90.6	60.0	140	----
		Dichloropropylene, trans-1,3-	10061-02-6	E611C	82.0 µg/L	100 µg/L	82.0	60.0	140	----
		Ethylbenzene	100-41-4	E611C	98.5 µg/L	100 µg/L	98.5	60.0	140	----
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611C	104 µg/L	100 µg/L	104	60.0	140	----
		Styrene	100-42-5	E611C	95.7 µg/L	100 µg/L	95.7	60.0	140	----
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611C	89.5 µg/L	100 µg/L	89.5	60.0	140	----
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Tetrachloroethylene	127-18-4	E611C	89.1 µg/L	100 µg/L	89.1	60.0	140	----
		Toluene	108-88-3	E611C	103 µg/L	100 µg/L	103	60.0	140	----
		Trichloroethane, 1,1,1-	71-55-6	E611C	94.8 µg/L	100 µg/L	94.8	60.0	140	----
		Trichloroethane, 1,1,2-	79-00-5	E611C	100 µg/L	100 µg/L	100	60.0	140	----
		Trichloroethylene	79-01-6	E611C	92.1 µg/L	100 µg/L	92.1	60.0	140	----
		Trichlorofluoromethane	75-69-4	E611C	104 µg/L	100 µg/L	104	50.0	150	----
		Vinyl chloride	75-01-4	E611C	111 µg/L	100 µg/L	111	50.0	150	----
		Xylene, m+p-	179601-23-1	E611C	200 µg/L	200 µg/L	100.0	60.0	140	----
		Xylene, o-	95-47-6	E611C	96.9 µg/L	100 µg/L	96.9	60.0	140	----
Hydrocarbons (QCLot: 1891551)										
KS2500624-002	Anonymous	VHw (C6-C10)	----	E581.VH+F1	4770 µg/L	6310 µg/L	75.6	60.0	140	----

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 1 of 2

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	Triton Environmental
Contact:	
Phone:	
Street:	
City/Province:	Vancouver/BC
Postal Code:	V6E 4M3

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fa

Email 2

Email 3

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: March 5/2025

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	
Contact:	

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax

Email 2

Project Information

ALS Account # / Quote #:	VA25-TRIT100-001
Job #:	11964
PO / AFE:	11964 - Task 40 - Phase 3C-4C
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only): A4080

ALS Contact: Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Total metals + mercury	Dissolved metals + mercury	Total hexavalent chromium	Total trivalent chromium	TSS, TDS, T-Alkalinity, Anions scan (Br, Cl, F, NO2, NO3, SO4)	Total sulfide (low) (as H2S), Unionized Sulfide (low)	Nutrients (ammonia, ammonium, total nitrogen, total phosphorus)	VOC/VPH	EPH, PAH, LEPH/HEPH	DOC	Glycols	General parameters (alkalinity)	Phenols	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
						F	F			P	P	P	P	F/P							
	WLNG EOP	Feb 25/25	9:45	Water	16	R	R	R	R	R	R	R	R	R	R	R	R	R			
	pH: 6.68 cond: 275 temp: 11.6																				

Environmental Division
Vancouver
Work Order Reference
VA25A4080

Telephone : +1 604 253 4188

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down be (Excel COC only)

ESDAT EDD to ESdat_CA+tritonenv@ESdatLabSync.net

E RECEIPT DETAILS (ALS use only)

CE ☑ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Sample Receipt Notification: ☐ YES ☐ NO

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

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date: Feb 25/2025	Time: 2:05	Received by:	Date:	Time:	Received by: CN	Date: Feb 25	Time: 1900

REFER TO BAC CATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

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

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

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 2 of 2

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report	Reports / Recipients	Turnaround Time (TAT) Requested
Company:	Triton Environmental	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	☑ Routine [R] if received by 3pm M-F - no surcharges apply
Contact:		ge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A	☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
Phone:		Compare Results to Criteria on Report - provide details below if box checked	☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
		t Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
Street:		Email 1 or F	☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
City/Province:	Vancouver/BC	Email 2	☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.
Postal Code:	V6E 4M3	Email 3	Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.
Invoice To	Same as Report To ☐ YES ☑ NO		**Date and Time Required for all E&P TATs:** March 5/2025
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	For all tests with rush TATs requested, please contact your AM to confirm availability.
Company:		Email 1 or Fa	
Contact:		Email 2	

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	VA23-TRIT100-012	AFE/Cost Center:	PO#
Job #:	11964	Major/Minor Code:	Routing Code:
PO / AFE:	11964 - Task 40 - Phase 3C-4C	Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		**ALS Contact:**	**Sampler:**

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Total metals + mercury	Dissolved metals + mercury	Total hexavalent chromium	Total trivalent chromium	TSS, TDS, T-Alkalinity,Anions scan (Br, Cl, F, NO2, NO3, SO4)	Total sulfide (low) (as H2S), Unionized Sulfide (low)	Nutrients (ammonia, ammonium, total nitrogen, total dissolved nitrogen)	VOC/VPH	EPH, PAH, LEPH/HEPH	DOC	Glycols	General parameters (alkalinity)	Phenols	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	~~WLNG EOP Duplicate~~			~~Water~~	~~10~~	R	R	R	R	R	R	R	R	R	R	R	R	R			
	pH: cond: temp:																				
	~~WLNG EOP Field Blank~~			~~Water~~	~~15~~	R	R	R	R	R	R	R	R	R	R	R	R	R			
	WLNG EOP Trip Blank	Feb 25/25	8:30	Water	12	R		R	R	R	R	R	R	R		R	R	R			

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☑ NO	
Are samples for human consumption/ use? ☐ YES ☑ NO	ESDAT EDD to ESdat_CA+tritonenv@ESdatLabSync.net, reports also to stephanie.renkers@triton-env.com

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☒ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				9			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date: Feb 25/25	Time:	Received by:	Date:	Time:	Received by: CW	Date: Feb 25	Time: 1400

REFER TO BAC OR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUC 2020 FRONT

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

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

Woodfibre Site WTP Discharge Field Notes and Logs

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Table of Contents:

1. Executive Summary and Field Notes:

The discharged water was closely monitored to maintain compliance with regulatory guidelines. Key parameters—including temperature, NTU, salinity, conductivity, and oxidation-reduction potential (ORP)—were continuously tracked throughout the discharge process. While most parameters remained within the prescribed limits, pH was occasionally out of range. 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 February 24 was 86,875 m³. On Feb 24th and 25th NTU values on the PLC would increase and decrease (bounce around) at times and then stabilize. Downstream East Creek sonde data confirms the NTU values recorded on the PLC at times on the 24th and 25th seem corrupt. The NTU meter was removed from the slip stream and cleaned on Feb 25th at 22:00, the slip stream was cleaned, the probe was reinstalled and probe readings stabilized and remained consistent.

Daily Volume Summary:

Table 1: Discharge Volumes Daily Summary

Date	Location	Volume (m3)	Comments
February 24	Woodfibre (WF)	1,130	None
February 25	WF	1,140	None
February 26	WF	1,188	None
February 27	WF	1,486	None
February 28	WF	1,377	None

March 1	WF	1,395	None
March 2	WF	1,446	None
	Total	7,785	None

2. Discharge Parameter Summary:

Table 2: Discharge Parameter Summary

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	0:00:00	6.5	1.389	1.5	86,875	16	411
2/24/2025	0:15:00	6.8	1.332	1.4	86,896	13.7	439
2/24/2025	0:30:00	8.2	0.000	30.2	86,904	10.9	426
2/24/2025	0:45:00	8.2	1.404	29	86,907	12.6	437
2/24/2025	1:00:00	6.8	1.431	5.3	86,922	10.6	570
2/24/2025	1:15:00	6.5	1.457	4.5	86,942	10.8	621
2/24/2025	1:30:00	6.5	1.590	7.6	86,956	11.6	639
2/24/2025	1:45:00	7.2	1.480	5.2	86,978	11	569
2/24/2025	2:00:00	7.1	0.000	13.6	86,992	10.8	657
2/24/2025	2:15:00	6.8	1.094	17.9	87,009	10.6	709
2/24/2025	2:30:00	7.4	0.167	17	87,016	10.7	694
2/24/2025	2:45:00	9.3	0.000	61.9	87,017	10.7	576
2/24/2025	3:00:00	7.2	1.351	14.9	87,026	10.6	689
2/24/2025	3:15:00	8.1	1.491	18.7	87,046	10.7	791
2/24/2025	3:30:00	8.1	0.189	29	87,058	10.8	741
2/24/2025	3:45:00	7.9	0.000	15.3	87,060	11.1	756
2/24/2025	4:00:00	8	1.563	15.2	87,061	11.7	764
2/24/2025	4:15:00	6.6	1.518	4.9	87,084	11.3	769
2/24/2025	4:30:00	6.6	1.491	4.8	87,106	12.2	111
2/24/2025	4:45:00	6.8	0.235	4.5	87,127	12.5	113
2/24/2025	5:00:00	7.1	1.401	4.2	87,138	11.9	617

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	5:15:00	7.2	1.488	3	87,160	10.9	542
2/24/2025	5:30:00	7.2	0.908	3.1	87,177	10.5	477
2/24/2025	5:45:00	7.2	0.000	2.4	87,180	10.8	477
2/24/2025	6:00:00	7.2	0.000	2.3	87,180	11.3	475
2/24/2025	6:15:00	7.3	1.597	21	87,184	12	458
2/24/2025	6:30:00	7.3	1.537	0.5	87,207	10.6	420
2/24/2025	6:45:00	7.3	1.480	0.6	87,230	10.7	404
2/24/2025	7:00:00	7.4	0.000	1	87,246	10.7	392
2/24/2025	7:15:00	7.4	0.000	1.1	87,246	11.4	387
2/24/2025	7:30:00	7.2	0.734	1	87,256	10.4	369
2/24/2025	7:45:00	7.1	0.000	0.6	87,267	10.6	368
2/24/2025	8:00:00	7.1	0.000	0.6	87,267	11.5	371
2/24/2025	8:15:00	7.1	1.556	0.9	87,283	10.7	368
2/24/2025	8:30:00	7.2	0.155	3.3	87,286	10.9	363
2/24/2025	8:45:00	7.2	1.639	10.8	87,291	11	355
2/24/2025	9:00:00	6.6	1.132	0.6	87,313	10.8	360
2/24/2025	9:15:00	7.4	1.548	0.8	87,334	10.6	382
2/24/2025	9:30:00	7.5	1.094	2.7	87,355	10.9	368
2/24/2025	9:45:00	7.4	0.000	2.2	87,356	11.1	364
2/24/2025	10:00:00	7.5	0.000	2.8	87,356	11.3	364
2/24/2025	10:15:00	6.6	1.488	0.7	87,375	10.7	387
2/24/2025	10:30:00	6.8	0.000	1.2	87,390	10.8	428
2/24/2025	10:45:00	6.8	0.000	1.1	87,390	11.1	427
2/24/2025	11:00:00	6.9	0.999	0.8	87,400	11.1	417
2/24/2025	11:15:00	6.6	1.401	0.6	87,420	10.8	404

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	11:30:00	6.7	0.000	0.9	87,438	11.5	112
2/24/2025	11:45:00	6.7	1.412	37.1	87,438	12.6	111
2/24/2025	12:00:00	7.1	1.018	0.9	87,457	11.1	397
2/24/2025	12:15:00	7.2	1.404	0.6	87,477	11	387
2/24/2025	12:30:00	6.6	0.000	0.5	87,492	11.3	370
2/24/2025	12:45:00	6.8	1.404	0.9	87,494	11.5	379
2/24/2025	13:00:00	7	0.996	0.6	87,514	11.4	399
2/24/2025	13:15:00	7.4	1.370	0.9	87,533	11.5	385
2/24/2025	13:30:00	7.5	0.000	0.9	87,538	11.8	371
2/24/2025	13:45:00	7.5	0.000	0.8	87,538	12.1	366
2/24/2025	14:00:00	8.2	1.128	1.5	87,546	11.7	361
2/24/2025	14:15:00	8.4	1.385	0.7	87,566	11.7	361
2/24/2025	14:30:00	7.3	1.336	0.5	87,585	12.1	369
2/24/2025	14:45:00	7.2	0.000	0.9	87,587	12.3	375
2/24/2025	15:00:00	6.2	1.344	0.6	87,593	11.2	497
2/24/2025	15:15:00	6.9	1.355	0.6	87,613	11	492
2/24/2025	15:30:00	7.1	0.136	1.2	87,619	11.2	420
2/24/2025	15:45:00	7.6	0.151	4.9	87,625	10.8	387
2/24/2025	16:00:00	8.7	1.537	1	87,639	10.8	324
2/24/2025	16:15:00	10	0.216	17.4	87,660	10.9	308
2/24/2025	16:30:00	10.2	0.000	7.1	87,660	10.8	319
2/24/2025	16:45:00	9.1	0.693	1.2	87,678	10.7	297
2/24/2025	17:00:00	9.3	1.639	5.3	87,700	10.9	295
2/24/2025	17:15:00	8.9	1.597	13.5	87,705	11.3	293
2/24/2025	17:30:00	8.5	0.155	1.1	87,720	11	303

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	17:45:00	8	1.613	1.7	87,731	11	315
2/24/2025	18:00:00	7.4	1.526	0.8	87,754	11	318
2/24/2025	18:15:00	7.1	0.132	1	87,772	11.1	323
2/24/2025	18:30:00	7	1.503	1.5	87,789	11	328
2/24/2025	18:45:00	7	1.435	0.9	87,811	11.3	328
2/24/2025	19:00:00	7	0.000	1.1	87,822	11.6	323
2/24/2025	19:15:00	7	0.000	1.1	87,824	11.9	323
2/24/2025	19:30:00	7.3	1.480	5.4	87,832	11.7	321
2/24/2025	19:45:00	7.4	1.420	1.2	87,854	11.3	323
2/24/2025	20:00:00	7.4	0.000	1.1	87,869	11.8	324
2/24/2025	20:15:00	7.4	1.385	1.1	87,870	12.5	323
2/24/2025	20:30:00	7.3	1.393	1.9	87,888	11.1	308
2/24/2025	21:45:00	6.7	0.662	4.4	87,914	10.4	288
2/24/2025	22:00:00	7.1	0.132	10.8	87,932	10.5	298
2/24/2025	22:15:00	7.3	0.000	9.9	87,932	10.8	109
2/24/2025	22:30:00	7.7	1.938	3.8	87,953	10.4	299
2/24/2025	22:45:00	7.8	0.000	6.4	87,964	10.4	299
2/24/2025	23:00:00	7.9	0.000	6.2	87,964	10.9	299
2/24/2025	23:15:00	7.3	1.753	4.4	87,973	10.3	291
2/24/2025	23:30:00	7.1	1.408	18.9	87,997	10.3	294
2/24/2025	23:45:00	7.3	0.000	12.3	88,008	10.3	299
2/25/2025	0:00:00	7.6	1.556	8.1	88,013	10.3	300
2/25/2025	0:15:00	7.7	1.181	15.8	88,029	10.3	296
2/25/2025	0:30:00	7.1	1.828	13.3	88,051	10.3	291
2/25/2025	0:45:00	6.9	0.000	66.2	88,073	10.3	291

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	1:00:00	6.9	0.000	16.5	88,073	10.5	298
2/25/2025	1:15:00	7.1	0.636	12.3	88,085	10.4	296
2/25/2025	1:30:00	7.2	1.548	6.7	88,097	10.3	293
2/25/2025	1:45:00	7.3	1.526	9	88,117	10.4	293
2/25/2025	2:00:00	7.5	0.000	6.2	88,124	10.5	295
2/25/2025	2:15:00	8	1.102	9.7	88,145	10.3	292
2/25/2025	2:30:00	8.5	0.886	27.3	88,162	10.4	293
2/25/2025	2:45:00	8.7	0.000	43.2	88,177	10.4	321
2/25/2025	3:00:00	8.4	1.847	60.3	88,191	10.4	346
2/25/2025	3:15:00	8.2	0.000	21.1	88,202	10.6	354
2/25/2025	3:30:00	7.9	1.450	12.2	88,222	10.4	358
2/25/2025	3:45:00	7.9	0.000	34.4	88,229	11.1	361
2/25/2025	4:00:00	8	0.000	11	88,235	10.4	356
2/25/2025	4:15:00	8.2	1.302	8.2	88,243	10.3	375
2/25/2025	4:30:00	8.4	0.000	3.3	88,247	10.3	412
2/25/2025	4:45:00	8.3	0.000	10.2	88,262	10.5	443
2/25/2025	5:00:00	7.6	0.000	1.3	88,273	10.5	444
2/25/2025	5:15:00	7.6	0.000	1	88,273	11.3	440
2/25/2025	5:30:00	7.1	1.446	0.1	88,293	10.5	409
2/25/2025	5:45:00	7.2	0.530	0.4	88,312	10.8	396
2/25/2025	6:00:00	7.4	0.223	3.7	88,324	10.7	376
2/25/2025	6:15:00	7.5	1.715	1.3	88,326	11.6	368
2/25/2025	6:30:00	7.6	0.204	0.1	88,345	10.9	355
2/25/2025	6:45:00	7.6	1.828	0	88,364	10.7	341
2/25/2025	7:00:00	7.6	1.404	10.7	88,390	10.7	335

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	7:15:00	7.7	0.322	5.1	88,405	10.8	334
2/25/2025	7:30:00	7.6	0.000	1.6	88,405	11.6	338
2/25/2025	7:45:00	7.6	1.745	1.1	88,414	10.8	333
2/25/2025	8:00:00	7.7	1.790	1.2	88,441	10.4	326
2/25/2025	8:15:00	7.4	1.859	22.4	88,455	10.8	347
2/25/2025	8:30:00	6.8	1.832	3.1	88,483	10.3	305
2/25/2025	8:45:00	6.7	0.000	3.4	88,505	10.3	300
2/25/2025	9:00:00	7.2	0.254	16.4	88,507	10.3	306
2/25/2025	9:15:00	8	0.000	8.7	88,509	10.4	304
2/25/2025	9:30:00	8.1	0.000	4.6	88,509	10.8	307
2/25/2025	9:45:00	6.9	1.582	3.6	88,523	10.2	325
2/25/2025	10:00:00	6.6	0.265	4.7	88,533	10.5	344
2/25/2025	10:15:00	6.7	2.052	3.2	88,551	10.3	349
2/25/2025	10:30:00	6.9	0.000	5	88,569	10.4	353
2/25/2025	10:45:00	7	1.995	5.3	88,572	10.7	354
2/25/2025	11:00:00	7.2	0.220	2.1	88,581	10.5	349
2/25/2025	11:15:00	8.3	2.040	2.2	88,600	10.4	318
2/25/2025	11:30:00	8.8	0.556	8.5	88,623	10.4	303
2/25/2025	11:45:00	7.8	0.734	46.3	88,632	10.7	350
2/25/2025	12:00:00	7.3	0.000	12.1	88,641	10.7	338
2/25/2025	12:15:00	7.3	0.617	10.2	88,650	11.1	346
2/25/2025	12:30:00	6.4	1.643	174.8	88,673	10.7	365
2/25/2025	12:45:00	7.4	1.654	35.3	88,695	10.6	421
2/25/2025	13:30:00	8.9	0.587	2.1	88,711	10.8	375
2/25/2025	13:45:00	8.9	0.000	32	88,712	12	111

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	14:00:00	8.4	1.461	5.9	88,716	11	410
2/25/2025	14:15:00	7.5	1.408	0.7	88,737	10.9	481
2/25/2025	14:30:00	7	0.273	0.7	88,757	10.9	542
2/25/2025	14:45:00	7	0.000	0.7	88,757	11.1	558
2/25/2025	15:00:00	6.9	0.148	0.8	88,768	10.9	583
2/25/2025	16:00:00	7.4	1.435	0.8	88,781	10.9	491
2/25/2025	16:15:00	8.1	1.382	0.8	88,802	10.8	430
2/25/2025	16:30:00	8.4	1.401	0.8	88,820	10.9	408
2/25/2025	16:45:00	8.5	2.214	20.7	88,831	10.9	391
2/25/2025	17:15:00	7.9	1.404	1.1	88,850	10.9	390
2/25/2025	17:30:00	7.1	0.000	1.3	88,863	10.8	416
2/25/2025	17:45:00	6.9	1.367	1.9	88,880	10.8	408
2/25/2025	18:30:00	7.2	1.412	1.6	88,897	10.7	355
2/25/2025	18:45:00	7.3	1.404	1.8	88,912	10.7	347
2/25/2025	19:00:00	7.4	0.000	1.4	88,919	10.8	345
2/25/2025	19:15:00	7.4	1.416	2.3	88,935	10.6	335
2/25/2025	19:30:00	7.7	1.423	2.8	88,953	10.6	329
2/25/2025	19:45:00	8.3	1.450	2.5	88,974	10.6	312
2/25/2025	20:00:00	8.7	0.000	2.3	88,993	10.6	297
2/25/2025	20:15:00	8.7	0.000	2.1	88,993	11.6	112
2/25/2025	20:30:00	8.4	1.355	2.6	88,994	11.8	298
2/25/2025	20:45:00	8.5	0.825	2.2	89,012	10.6	291
2/25/2025	21:00:00	8.6	1.310	2.1	89,032	10.5	287
2/25/2025	21:15:00	8.7	0.000	1.8	89,044	10.6	287
2/25/2025	21:30:00	8.4	1.382	1.8	89,048	10.5	300

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	21:45:00	8.7	0.946	1.9	89,067	10.5	284
2/25/2025	22:00:00	7.8	0.000	403.1	89,083	10.5	273
2/25/2025	22:15:00	9.8	0.000	403	89,084	10.7	273
2/25/2025	22:30:00	8.4	1.385	2	89,089	10.6	284
2/25/2025	22:45:00	7	0.000	2.3	89,104	10.7	268
2/25/2025	23:00:00	7	0.000	2.4	89,104	11.3	109
2/25/2025	23:15:00	6.9	1.692	3.2	89,120	10.7	304
2/25/2025	23:30:00	6.9	1.658	1.6	89,145	10.7	408
2/25/2025	23:45:00	6.9	0.201	1.8	89,162	10.7	493
2/26/2025	0:00:00	6.9	0.159	1.5	89,170	10.8	469
2/26/2025	0:15:00	6.9	0.307	1.4	89,183	10.9	524
2/26/2025	0:30:00	6.9	1.681	1.5	89,196	10.9	524
2/26/2025	0:45:00	6.9	0.185	2.6	89,210	11	494
2/26/2025	1:00:00	6.9	0.106	5.9	89,225	11	436
2/26/2025	1:15:00	6.9	0.000	4.8	89,226	11.2	428
2/26/2025	1:30:00	8	0.000	6.7	89,231	11.2	466
2/26/2025	1:45:00	6.9	1.779	8.1	89,250	11.3	499
2/26/2025	2:00:00	6.4	1.666	4.5	89,268	11.2	460
2/26/2025	2:15:00	6.8	1.401	13.3	89,279	11.7	440
2/26/2025	2:30:00	6.9	0.598	3.3	89,297	11.8	456
2/26/2025	2:45:00	6.9	1.579	2.8	89,309	11.6	369
2/26/2025	3:00:00	6.7	1.639	1.1	89,333	11.5	333
2/26/2025	3:15:00	6.7	1.666	1.9	89,348	11.7	342
2/26/2025	3:30:00	6.7	1.155	1.9	89,372	12.1	346
2/26/2025	3:45:00	6.8	0.280	2	89,393	11.5	332

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	4:00:00	6.7	0.409	4.1	89,394	11.9	333
2/26/2025	4:15:00	6.6	1.628	2.2	89,405	11.7	375
2/26/2025	4:30:00	6.5	0.242	1.3	89,427	12	385
2/26/2025	4:45:00	6.5	0.000	1.2	89,427	12.2	390
2/26/2025	5:00:00	6.6	1.624	1.9	89,442	12.3	405
2/26/2025	5:15:00	6.2	1.560	0.9	89,465	11.1	359
2/26/2025	5:30:00	6.2	0.000	1.1	89,479	11.1	111
2/26/2025	5:45:00	6.2	0.000	0.8	89,479	11.7	113
2/26/2025	6:00:00	6.3	1.609	0	89,495	11.3	400
2/26/2025	6:15:00	6.4	0.379	0	89,518	12.1	401
2/26/2025	6:30:00	6.4	0.000	0	89,519	13	422
2/26/2025	6:45:00	6.9	0.000	11.5	89,524	11.2	317
2/26/2025	7:00:00	7.1	1.700	2.4	89,527	11.5	299
2/26/2025	7:15:00	7.4	1.556	0	89,552	11.2	297
2/26/2025	7:30:00	7.7	1.537	0	89,575	11.2	291
2/26/2025	7:45:00	7.5	0.000	0	89,576	11.7	297
2/26/2025	8:00:00	6.5	1.518	0	89,597	10.9	354
2/26/2025	8:15:00	7	1.495	0.2	89,620	10.8	305
2/26/2025	8:30:00	7.2	1.491	0.3	89,640	10.8	292
2/26/2025	8:45:00	7.2	0.000	0.8	89,644	11.5	295
2/26/2025	9:00:00	8	0.000	2.9	89,646	11.3	290
2/26/2025	9:15:00	7.3	1.560	4.3	89,650	10.9	298
2/26/2025	9:30:00	6.9	1.518	0.5	89,673	10.7	287
2/26/2025	9:45:00	7	1.541	0.4	89,694	10.8	303
2/26/2025	10:00:00	7.3	0.000	0.5	89,708	10.8	287

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	10:15:00	7.3	0.178	0.9	89,720	10.8	283
2/26/2025	10:30:00	7.3	0.000	0.7	89,720	11	286
2/26/2025	10:45:00	7.3	0.000	0.5	89,720	11.3	289
2/26/2025	11:00:00	7.3	0.000	0.6	89,720	11.5	293
2/26/2025	11:15:00	6.8	0.000	0.6	89,730	10.9	301
2/26/2025	11:30:00	7	1.514	0.7	89,746	10.8	306
2/26/2025	11:45:00	7.2	1.442	0.7	89,768	10.8	286
2/26/2025	12:00:00	6.9	1.438	0.7	89,790	10.9	298
2/26/2025	12:15:00	7.2	1.416	0.8	89,805	10.9	294
2/26/2025	13:30:00	7	0.958	1.2	89,826	11.1	289
2/26/2025	13:45:00	7	0.000	2.6	89,828	11.3	306
2/26/2025	14:00:00	7	0.000	1.8	89,828	11.5	308
2/26/2025	14:15:00	7.1	1.491	2.6	89,832	11.3	314
2/26/2025	14:30:00	6.9	1.465	1.9	89,854	11.2	306
2/26/2025	14:45:00	7.4	1.412	2.6	89,876	11.2	278
2/26/2025	15:00:00	7.1	1.404	2.6	89,897	11.3	298
2/26/2025	15:15:00	7.2	0.000	2.3	89,898	11.6	111
2/26/2025	15:30:00	7.2	0.000	1.9	89,898	11.9	111
2/26/2025	15:45:00	7.3	1.438	2.6	89,907	11.4	288
2/26/2025	16:00:00	7.2	1.370	2.6	89,928	11.5	297
2/26/2025	16:15:00	6.9	0.901	2.3	89,948	11.5	301
2/26/2025	16:30:00	7.4	1.416	2.2	89,966	11.5	282
2/26/2025	16:45:00	7	0.000	2.2	89,978	11.6	316
2/26/2025	17:00:00	7	0.000	2	89,978	11.9	318
2/26/2025	17:15:00	6.9	1.469	3.5	89,986	11.5	301

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	17:30:00	7.2	1.503	1.8	90,006	11.5	298
2/26/2025	17:45:00	7	1.450	1.5	90,028	11.5	288
2/26/2025	18:00:00	7.1	0.000	1.9	90,043	11.6	306
2/26/2025	18:15:00	7.3	1.431	1.7	90,053	11.5	295
2/26/2025	18:30:00	7	1.450	5.4	90,066	11.6	301
2/26/2025	18:45:00	7.4	1.427	1.7	90,088	11.5	287
2/26/2025	19:00:00	7.1	1.230	3.1	90,107	11.5	316
2/26/2025	19:15:00	6.9	0.000	1.5	90,125	11.4	303
2/26/2025	19:30:00	6.9	0.000	1.4	90,125	11.6	308
2/26/2025	19:45:00	7.1	1.416	1.5	90,135	11.3	306
2/26/2025	20:00:00	6.8	1.056	0.9	90,149	11.7	314
2/26/2025	20:15:00	7.2	1.518	0.4	90,171	11.8	302
2/26/2025	20:30:00	6.9	1.529	0.7	90,187	11.6	328
2/26/2025	20:45:00	6.8	0.000	0.4	90,188	11.9	329
2/26/2025	21:00:00	6.8	0.000	0.6	90,188	12.5	330
2/26/2025	21:15:00	6.8	1.624	0.7	90,203	11.4	298
2/26/2025	21:30:00	7	1.594	1	90,223	11.3	292
2/26/2025	21:45:00	7	0.106	1.2	90,242	11.5	296
2/26/2025	22:00:00	7.1	1.582	1.1	90,252	11.7	292
2/26/2025	22:15:00	7.1	1.541	1	90,275	12.1	295
2/26/2025	22:30:00	7.1	0.000	1.1	90,280	13.1	295
2/26/2025	22:45:00	6.4	0.746	1.5	90,288	11.3	364
2/26/2025	23:00:00	6.5	0.246	2.6	90,306	11.2	354
2/26/2025	23:15:00	6.6	1.563	1.6	90,313	11.3	350
2/26/2025	23:30:00	6.7	1.582	1.2	90,336	11.5	347

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	23:45:00	6.7	1.090	1.1	90,359	11.8	345
2/27/2025	0:00:00	6.6	0.000	1.2	90,363	12.1	344
2/27/2025	0:15:00	6.9	1.548	1.6	90,368	11.4	324
2/27/2025	0:30:00	7.2	1.632	2.5	90,380	11.3	314
2/27/2025	0:45:00	7	1.556	2.2	90,403	11.6	309
2/27/2025	1:00:00	7.1	0.000	2.1	90,406	11.8	307
2/27/2025	1:15:00	7.1	0.000	2.1	90,406	12	304
2/27/2025	1:30:00	6.3	0.000	0.7	90,419	11.1	364
2/27/2025	1:45:00	6.5	1.552	0.8	90,440	11.4	367
2/27/2025	2:00:00	6.5	0.000	0.9	90,448	12	371
2/27/2025	2:15:00	6.7	1.548	0.8	90,463	11.6	348
2/27/2025	2:30:00	6.7	1.552	0.5	90,486	12.3	341
2/27/2025	2:45:00	6.7	1.423	0.5	90,509	13.1	341
2/27/2025	3:00:00	7.2	0.000	1.4	90,512	14.1	325
2/27/2025	3:15:00	7	1.510	2.9	90,516	13.5	304
2/27/2025	3:30:00	6.4	1.484	0.7	90,538	11.6	327
2/27/2025	3:45:00	6.4	0.000	0.9	90,551	13.6	341
2/27/2025	4:00:00	6.3	0.000	0.7	90,551	14	348
2/27/2025	4:15:00	6.3	0.000	0.7	90,551	14.5	353
2/27/2025	4:30:00	6.2	0.893	1	90,560	11.5	386
2/27/2025	4:45:00	6	1.363	0.1	90,579	10.9	355
2/27/2025	5:00:00	6.1	1.321	0.4	90,600	10.7	340
2/27/2025	5:15:00	6	0.000	2.3	90,615	10.7	366
2/27/2025	5:30:00	6	0.000	2.5	90,615	10.9	384
2/27/2025	5:45:00	6.2	0.000	7.2	90,619	11	379

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	6:00:00	6.2	1.601	3	90,621	12.1	370
2/27/2025	6:15:00	6.6	0.352	1.8	90,644	10.7	329
2/27/2025	6:30:00	6.7	1.488	1.3	90,662	11.1	329
2/27/2025	6:45:00	6.8	1.488	1.2	90,684	12	324
2/27/2025	7:00:00	6.8	0.000	1	90,704	12.6	325
2/27/2025	7:15:00	6.8	0.000	0.8	90,704	13.2	323
2/27/2025	7:30:00	6.7	1.465	0.9	90,719	17.3	116
2/27/2025	7:45:00	6.8	1.268	5.1	90,728	17.2	268
2/27/2025	8:00:00	6.8	1.385	1.3	90,750	16.9	322
2/27/2025	8:15:00	6.9	0.125	0.7	90,762	10.9	299
2/27/2025	8:30:00	7	0.927	0.8	90,772	10.8	300
2/27/2025	8:45:00	7.1	0.204	0.7	90,791	10.7	295
2/27/2025	9:00:00	7	1.397	2.5	90,792	11.1	298
2/27/2025	9:15:00	7.1	1.412	0.2	90,813	10.7	294
2/27/2025	9:30:00	7.2	1.037	0.2	90,833	10.8	292
2/27/2025	9:45:00	7.2	0.742	1.6	90,851	10.7	291
2/27/2025	10:00:00	7.2	1.374	0.5	90,870	10.7	288
2/27/2025	10:15:00	7.3	0.098	0.6	90,888	10.7	288
2/27/2025	10:30:00	7.2	1.423	1.4	90,900	10.8	290
2/27/2025	10:45:00	7.3	0.000	0.7	90,911	10.9	290
2/27/2025	11:00:00	7.2	0.000	0.8	90,912	11.4	293
2/27/2025	11:15:00	7.2	0.000	0.7	90,912	11.7	294
2/27/2025	11:30:00	7.2	0.000	0.7	90,912	11.8	294
2/27/2025	11:45:00	7.2	0.943	0.8	90,933	10.7	291
2/27/2025	12:00:00	7.3	1.438	0.8	90,952	10.7	289

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	12:15:00	7.3	1.397	1	90,974	10.7	288
2/27/2025	12:30:00	7.4	0.114	0.8	90,990	10.8	288
2/27/2025	12:45:00	7.5	0.000	2.4	90,992	10.9	288
2/27/2025	13:00:00	7.3	1.476	0.9	91,009	10.8	284
2/27/2025	13:15:00	7.4	1.404	0.8	91,031	10.8	284
2/27/2025	13:30:00	7.4	1.374	0.8	91,052	10.9	283
2/27/2025	13:45:00	7.5	0.916	1	91,071	10.9	281
2/27/2025	14:00:00	7.4	1.431	0.7	91,091	10.9	281
2/27/2025	14:15:00	7	0.000	0.8	91,107	11	308
2/27/2025	14:30:00	7	0.000	0.9	91,107	11.2	309
2/27/2025	14:45:00	7.2	1.389	1	91,117	10.9	299
2/27/2025	15:00:00	7.3	1.393	1.6	91,138	10.9	283
2/27/2025	15:15:00	6.8	1.385	1.7	91,159	10.9	284
2/27/2025	15:30:00	7.3	0.893	2.4	91,179	11	286
2/27/2025	15:45:00	6.8	1.412	1.8	91,198	10.9	281
2/27/2025	16:00:00	7.2	0.000	2.1	91,207	11	293
2/27/2025	16:15:00	6.6	1.450	1.5	91,224	10.9	298
2/27/2025	16:30:00	7.1	1.423	1.3	91,245	10.8	291
2/27/2025	16:45:00	7.3	1.389	1.3	91,266	10.8	278
2/27/2025	17:00:00	7.4	1.382	1.1	91,287	10.8	278
2/27/2025	17:15:00	7.6	1.454	1	91,305	10.8	279
2/27/2025	17:30:00	6.9	0.000	1	91,321	10.9	313
2/27/2025	17:45:00	7.5	1.442	0.9	91,340	10.7	296
2/27/2025	18:00:00	8	1.423	1.1	91,361	10.7	278
2/27/2025	18:15:00	6.8	1.363	0.7	91,382	10.7	298

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	18:30:00	7.2	0.000	0.9	91,393	10.8	326
2/27/2025	18:45:00	7.2	0.000	1	91,393	11	323
2/27/2025	19:00:00	7.2	1.389	1.9	91,396	11	309
2/27/2025	19:15:00	6.9	1.351	0.9	91,417	10.6	308
2/27/2025	19:30:00	7.3	1.442	0.8	91,435	10.6	289
2/27/2025	19:45:00	7	1.397	0.8	91,456	10.6	308
2/27/2025	20:00:00	7.2	1.385	0.7	91,476	10.7	288
2/27/2025	20:15:00	7.3	0.000	0.5	91,488	10.8	287
2/27/2025	20:30:00	7.3	0.000	0	91,488	15	284
2/27/2025	20:45:00	7.2	0.000	1.5	91,491	12	278
2/27/2025	21:00:00	6.3	1.552	0.4	91,495	11.4	283
2/27/2025	21:15:00	6.3	1.495	0.4	91,518	11.5	304
2/27/2025	21:30:00	6.3	1.518	0.9	91,541	13.4	310
2/27/2025	21:45:00	6.3	1.469	0.4	91,563	13.6	312
2/27/2025	22:00:00	6.3	1.412	0.6	91,585	14.8	113
2/27/2025	22:15:00	6.5	0.000	0.6	91,594	15.1	112
2/27/2025	22:30:00	6.4	0.000	0.9	91,594	15.1	111
2/27/2025	22:45:00	6.4	0.106	1.2	91,595	14.9	111
2/27/2025	23:00:00	6.4	1.491	0.8	91,599	14.7	111
2/27/2025	23:15:00	6.4	1.529	0.9	91,622	14.8	112
2/27/2025	23:30:00	7.3	1.090	2.6	91,642	11.5	302
2/27/2025	23:45:00	7.4	1.397	22.3	91,647	11.1	292
2/28/2025	0:00:00	7.4	1.412	0.9	91,668	10.7	285
2/28/2025	0:15:00	7.4	1.484	0.8	91,690	10.9	285
2/28/2025	0:30:00	6.9	0.946	0.7	91,711	11	313

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	0:45:00	7.2	1.454	0.8	91,731	11	304
2/28/2025	1:00:00	7.3	1.454	0.7	91,753	11.2	306
2/28/2025	1:15:00	7.3	0.000	0.8	91,757	11.2	301
2/28/2025	1:30:00	7.3	0.000	0.8	91,757	11.3	300
2/28/2025	1:45:00	7.3	1.473	0.8	91,766	10.8	296
2/28/2025	2:00:00	7.3	0.000	0.8	91,769	11.3	289
2/28/2025	2:15:00	7.4	0.000	1	91,770	11.3	289
2/28/2025	2:30:00	7.4	0.000	1	91,770	11.4	293
2/28/2025	2:45:00	7.1	1.529	1.3	91,775	11.1	288
2/28/2025	3:00:00	7.3	1.537	1.3	91,797	10.9	289
2/28/2025	3:15:00	7.4	1.465	1.1	91,820	11.5	290
2/28/2025	3:30:00	7.4	1.450	0.7	91,842	12	287
2/28/2025	3:45:00	6.5	1.461	0.7	91,860	11.4	345
2/28/2025	4:00:00	7	1.450	1.2	91,881	11.5	299
2/28/2025	4:15:00	7.4	0.106	1.2	91,901	11.5	297
2/28/2025	4:30:00	7.4	0.000	1.4	91,901	13	117
2/28/2025	4:45:00	7.4	1.457	1.1	91,917	11.5	281
2/28/2025	5:00:00	7.8	1.438	0.9	91,938	11.4	274
2/28/2025	5:15:00	7.9	1.378	0.7	91,960	11.4	276
2/28/2025	5:30:00	7.9	0.000	0.7	91,964	11.6	281
2/28/2025	5:45:00	7.9	0.167	1	91,966	11.9	277
2/28/2025	6:00:00	7.2	1.484	1.6	91,986	13	112
2/28/2025	6:15:00	6.9	1.688	1	92,007	13.4	281
2/28/2025	6:30:00	6.9	1.643	2.1	92,032	13.7	280
2/28/2025	6:45:00	6.9	1.575	1.3	92,057	13.9	282

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	7:00:00	6.8	1.438	0.8	92,079	11	317
2/28/2025	7:15:00	7.2	1.037	1.9	92,095	10.9	282
2/28/2025	7:30:00	7.4	1.480	0.8	92,117	11.4	283
2/28/2025	7:45:00	7.4	1.412	0.8	92,139	11.7	282
2/28/2025	8:00:00	7.4	0.000	0.9	92,140	12	283
2/28/2025	8:15:00	7.4	1.264	1.1	92,143	12.2	283
2/28/2025	8:30:00	6.6	1.397	1.1	92,163	10.8	313
2/28/2025	8:45:00	6.6	1.367	0.9	92,184	11.1	315
2/28/2025	9:00:00	6.6	1.332	0.9	92,204	12	111
2/28/2025	9:15:00	6.6	0.000	0.9	92,221	12.2	111
2/28/2025	9:30:00	6.6	0.000	1	92,221	12.3	111
2/28/2025	9:45:00	7.4	1.465	2.7	92,233	10.8	273
2/28/2025	10:00:00	7.2	1.586	2.8	92,252	10.8	278
2/28/2025	10:15:00	7.1	1.514	1.5	92,275	10.9	283
2/28/2025	10:30:00	7.1	1.499	1.7	92,298	10.9	279
2/28/2025	10:45:00	7.1	1.461	1.7	92,320	11	273
2/28/2025	11:00:00	7.4	0.000	3.1	92,338	11.2	267
2/28/2025	11:15:00	7.7	1.548	6.3	92,339	11.5	266
2/28/2025	11:30:00	7.5	1.537	2.1	92,362	11.3	268
2/28/2025	11:45:00	7.3	0.242	2.2	92,384	11.3	281
2/28/2025	12:00:00	7.3	0.000	1.6	92,385	11.5	283
2/28/2025	12:15:00	7.2	1.457	12.6	92,385	11.8	280
2/28/2025	12:30:00	7.5	1.503	2	92,408	11.4	273
2/28/2025	12:45:00	7.2	1.446	1.6	92,430	11.5	282
2/28/2025	13:00:00	7.5	0.999	2.3	92,451	11.6	275

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	13:15:00	7.3	1.374	1.8	92,470	11.6	287
2/28/2025	13:30:00	7.3	1.336	2	92,491	11.6	270
2/28/2025	13:45:00	7.6	1.382	4.1	92,511	11.6	267
2/28/2025	14:00:00	7.4	0.999	2.1	92,532	11.6	273
2/28/2025	14:15:00	7.5	0.000	1.9	92,533	11.9	273
2/28/2025	14:30:00	7.5	0.000	2.9	92,533	12.2	272
2/28/2025	14:45:00	7.6	1.431	1.6	92,550	11.7	265
2/28/2025	15:00:00	7.4	1.397	2.3	92,571	11.7	275
2/28/2025	15:15:00	7.5	1.473	1.6	92,590	11.7	267
2/28/2025	15:30:00	7.5	1.457	1.6	92,612	11.7	277
2/28/2025	15:45:00	7.4	0.000	1.5	92,619	11.8	268
2/28/2025	16:00:00	7.4	0.000	1.5	92,619	12	269
2/28/2025	16:15:00	7.3	1.480	1.7	92,629	11.6	277
2/28/2025	16:30:00	7.2	1.442	3.2	92,651	11.5	268
2/28/2025	16:45:00	7.6	1.435	2.3	92,672	11.5	263
2/28/2025	17:00:00	7.3	0.000	1.5	92,688	11.5	273
2/28/2025	17:15:00	7.3	0.057	1.6	92,689	11.7	273
2/28/2025	17:30:00	7.3	0.000	1.5	92,689	11.9	273
2/28/2025	17:45:00	7.3	0.000	1.6	92,689	12.1	273
2/28/2025	18:00:00	7.5	1.518	1.7	92,707	11.4	111
2/28/2025	18:15:00	7.2	1.533	2.1	92,726	11.6	278
2/28/2025	18:30:00	7.4	1.454	1.1	92,749	11.4	268
2/28/2025	18:45:00	7.4	0.000	1.2	92,750	11.6	268
2/28/2025	19:00:00	7.4	0.000	2.4	92,750	11.8	270
2/28/2025	19:15:00	7.4	0.920	2.3	92,768	11.4	270

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	19:30:00	7.5	1.469	2.3	92,790	11.3	268
2/28/2025	19:45:00	7.5	1.457	1.3	92,811	11.3	268
2/28/2025	20:00:00	7.5	1.442	1.6	92,833	11.5	271
2/28/2025	20:15:00	7.5	0.000	1.3	92,850	11.7	271
2/28/2025	20:30:00	7.5	0.000	1.2	92,850	11.9	272
2/28/2025	20:45:00	7.5	0.000	1.3	92,850	12.1	270
2/28/2025	21:00:00	7.5	1.510	1.4	92,860	12.2	270
2/28/2025	21:15:00	7.5	1.491	1.2	92,882	12.4	272
2/28/2025	21:30:00	7.5	1.438	1.4	92,904	12.6	270
2/28/2025	21:45:00	7.5	1.438	1.3	92,923	12.8	270
2/28/2025	22:00:00	7.5	0.000	1.1	92,938	12.9	270
2/28/2025	22:15:00	7.5	1.556	1.1	92,946	13.1	272
2/28/2025	22:30:00	7.5	1.484	1.3	92,969	13.2	272
2/28/2025	22:45:00	7.4	1.037	1.3	92,989	13.2	272
2/28/2025	23:00:00	7.4	1.514	1.3	93,011	13.3	272
2/28/2025	23:15:00	7.3	0.000	1.2	93,029	13.2	112
2/28/2025	23:30:00	7.2	1.435	1.2	93,038	13.3	112
2/28/2025	23:45:00	7.2	1.420	1.3	93,048	13.4	112
3/1/2025	0:00:00	7.2	1.491	1.4	93,069	13.4	111
3/1/2025	0:15:00	6.3	1.359	3.7	93,091	11.3	313
3/1/2025	0:30:00	6.3	0.000	3.9	93,097	11.5	328
3/1/2025	0:45:00	6.6	1.389	3.4	93,110	11.1	304
3/1/2025	1:00:00	6.4	0.000	3	93,121	11.1	319
3/1/2025	1:15:00	6.4	0.000	2.9	93,122	11.3	319
3/1/2025	1:30:00	6.5	1.529	5.3	93,141	12	304

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	1:45:00	6.6	1.423	10	93,164	11.4	305
3/1/2025	2:00:00	6.5	1.480	9.7	93,185	11.6	310
3/1/2025	2:15:00	6.5	0.000	8.8	93,194	11.8	316
3/1/2025	2:30:00	6.5	0.000	9	93,194	12.2	320
3/1/2025	2:45:00	6.5	1.510	7.5	93,214	11.4	113
3/1/2025	3:00:00	6.7	1.469	5.7	93,236	11.5	314
3/1/2025	3:15:00	6.5	1.446	8.7	93,255	11.6	310
3/1/2025	3:30:00	6.5	0.000	11.3	93,273	11.6	307
3/1/2025	3:45:00	6.6	0.000	11.4	93,273	11.9	308
3/1/2025	4:00:00	6.5	1.408	9.8	93,285	11.3	298
3/1/2025	4:15:00	6.6	1.382	10.8	93,304	11.5	297
3/1/2025	4:30:00	6.5	0.000	8.6	93,315	11.4	303
3/1/2025	4:45:00	6.5	1.276	7.6	93,330	11.6	308
3/1/2025	5:00:00	6.5	1.242	7.5	93,349	12	312
3/1/2025	5:15:00	6.5	0.753	7.4	93,362	12.5	315
3/1/2025	5:30:00	6.4	0.216	4.3	93,381	11.9	314
3/1/2025	5:45:00	6.7	1.423	3.4	93,396	11.9	310
3/1/2025	6:00:00	6.6	1.431	2.7	93,417	12.3	300
3/1/2025	6:15:00	6.3	0.000	1	93,430	11.6	311
3/1/2025	6:30:00	6.5	1.563	2.1	93,434	11.5	307
3/1/2025	6:45:00	6.5	1.473	0.5	93,457	11.3	302
3/1/2025	7:00:00	6.5	1.446	0.3	93,478	11.3	302
3/1/2025	7:15:00	6.8	1.026	6.7	93,499	11.4	287
3/1/2025	7:30:00	6.9	0.299	0.4	93,512	11.3	283
3/1/2025	7:45:00	6.9	1.461	0.3	93,526	11.2	285

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	8:00:00	7	1.423	0.4	93,547	11.3	285
3/1/2025	8:15:00	7	0.000	0.5	93,549	11.6	286
3/1/2025	8:30:00	7	0.000	0.9	93,549	11.8	287
3/1/2025	8:45:00	7	0.000	0.9	93,549	12.1	290
3/1/2025	9:00:00	7	0.000	0.9	93,549	12.4	292
3/1/2025	9:15:00	7	0.000	1.2	93,549	12.6	292
3/1/2025	9:30:00	6.9	0.000	1	93,549	13.8	111
3/1/2025	9:45:00	6.9	0.000	0.9	93,549	13.8	112
3/1/2025	10:00:00	6.9	0.000	0.8	93,549	14	112
3/1/2025	10:15:00	7	1.420	1.1	93,564	11.2	290
3/1/2025	10:30:00	7	1.427	1.2	93,583	11.2	283
3/1/2025	10:45:00	7.1	1.404	1.2	93,605	11.2	283
3/1/2025	11:00:00	7.1	0.000	1.2	93,605	11.4	283
3/1/2025	11:15:00	7.2	1.507	0.9	93,626	11.2	279
3/1/2025	11:30:00	7.2	1.522	1	93,646	11.2	276
3/1/2025	11:45:00	7.2	0.000	0.9	93,649	11.3	278
3/1/2025	12:00:00	7.1	1.491	0.9	93,665	11.1	276
3/1/2025	12:15:00	7.2	1.522	0.9	93,687	11.2	277
3/1/2025	12:30:00	7.2	1.488	0.9	93,707	11.5	275
3/1/2025	12:45:00	7.2	1.442	0.7	93,729	11.3	273
3/1/2025	13:00:00	7.3	1.431	0.7	93,751	11.3	268
3/1/2025	13:15:00	7.3	1.438	0.7	93,773	11.4	268
3/1/2025	13:30:00	7.3	0.000	0.6	93,790	11.5	268
3/1/2025	13:45:00	7.2	0.000	0.6	93,790	11.8	272
3/1/2025	14:00:00	7.2	1.473	0.7	93,801	11.5	273

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	14:15:00	7.2	1.495	1	93,822	11.5	270
3/1/2025	14:30:00	7.3	1.446	1.2	93,844	11.4	268
3/1/2025	14:45:00	7.3	1.446	0.7	93,866	11.3	268
3/1/2025	15:00:00	7.3	1.404	0.6	93,887	11.3	268
3/1/2025	15:15:00	7.3	1.385	0.7	93,905	11.6	273
3/1/2025	15:30:00	7.3	1.340	0.7	93,926	11.2	273
3/1/2025	15:45:00	7.3	1.295	0.7	93,946	11.2	273
3/1/2025	16:00:00	7.3	1.291	0.8	93,965	11.3	275
3/1/2025	16:15:00	7.3	0.000	0.6	93,970	11.9	112
3/1/2025	16:30:00	7.2	0.000	77.2	93,974	12	112
3/1/2025	16:45:00	7.2	1.332	0.7	93,985	11.1	280
3/1/2025	17:00:00	7.3	0.984	0.6	94,003	11.3	277
3/1/2025	17:15:00	7.3	0.000	0.7	94,021	11	275
3/1/2025	17:30:00	7.3	1.541	3.9	94,024	11.1	275
3/1/2025	17:45:00	7.3	1.476	0.7	94,046	11	275
3/1/2025	18:00:00	7.3	0.000	0.9	94,060	11.1	274
3/1/2025	18:15:00	7.3	1.476	0.7	94,075	11	275
3/1/2025	18:30:00	7.3	1.397	0.7	94,096	11	275
3/1/2025	18:45:00	7.3	1.370	0.6	94,117	11	275
3/1/2025	19:00:00	7.3	1.431	1	94,134	10.9	278
3/1/2025	19:15:00	7.3	0.000	0.8	94,153	10.9	277
3/1/2025	19:30:00	7.3	0.000	1.1	94,162	10.9	278
3/1/2025	19:45:00	7.3	1.359	1.2	94,164	11.2	274
3/1/2025	20:00:00	7.3	1.026	0.9	94,182	11	276
3/1/2025	20:15:00	7.3	1.446	0.7	94,204	10.8	275

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	20:30:00	7.3	1.465	8.6	94,221	11	276
3/1/2025	20:45:00	7.3	1.484	0.2	94,243	11.2	273
3/1/2025	21:00:00	7.4	1.033	0	94,263	11.7	273
3/1/2025	21:15:00	7.4	1.416	0	94,285	11.6	273
3/1/2025	21:30:00	7.4	0.000	0	94,290	11.8	274
3/1/2025	21:45:00	7.3	0.791	0.2	94,305	11	272
3/1/2025	22:00:00	7.3	1.370	0.5	94,319	10.9	272
3/1/2025	22:15:00	7.4	1.503	0.7	94,340	10.9	274
3/1/2025	22:30:00	7.3	1.473	0.9	94,362	11.6	275
3/1/2025	22:45:00	7.3	1.446	0.8	94,384	12.3	275
3/1/2025	23:00:00	7.3	1.389	0.9	94,405	12.8	273
3/1/2025	23:15:00	7.3	1.374	1	94,426	13.2	273
3/1/2025	23:30:00	7.3	1.351	0.9	94,447	13.5	275
3/1/2025	23:45:00	7.3	1.336	1.1	94,467	13.6	276
3/2/2025	0:00:00	7.4	1.317	2.1	94,478	10.7	278
3/2/2025	0:15:00	7.4	0.000	3.7	94,492	11.1	278
3/2/2025	0:30:00	7.4	0.000	3.5	94,492	11.3	278
3/2/2025	0:45:00	7.4	1.484	6.5	94,503	11.4	278
3/2/2025	1:00:00	7.3	1.454	5	94,525	11.7	276
3/2/2025	1:15:00	7.5	0.000	2	94,542	10.6	272
3/2/2025	1:30:00	7.4	0.000	2.6	94,544	10.9	275
3/2/2025	1:45:00	7.5	1.385	1.4	94,563	10.8	276
3/2/2025	2:00:00	7.5	1.370	1	94,584	11	272
3/2/2025	2:15:00	7.5	0.000	1	94,600	11.4	272
3/2/2025	2:30:00	7.4	1.363	1.5	94,602	12.5	272

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	2:45:00	7.4	1.382	2	94,623	12.2	271
3/2/2025	3:00:00	7.3	1.348	1.9	94,636	12.8	273
3/2/2025	3:15:00	7.4	1.397	1.3	94,657	11.6	273
3/2/2025	3:30:00	7.4	1.397	1.5	94,678	12	272
3/2/2025	3:45:00	7.5	1.484	4.4	94,696	11.6	273
3/2/2025	4:00:00	7.5	1.495	2.9	94,715	12	274
3/2/2025	4:15:00	7.5	1.446	2.5	94,737	12.4	273
3/2/2025	4:30:00	7.5	1.423	2.4	94,759	12.7	273
3/2/2025	4:45:00	7.5	1.438	2.7	94,763	13.2	273
3/2/2025	5:00:00	7.5	1.420	3.5	94,785	11.8	277
3/2/2025	5:15:00	7.5	1.420	2.2	94,806	12.2	277
3/2/2025	5:30:00	7.5	1.401	2.4	94,825	12.5	277
3/2/2025	5:45:00	7.5	1.344	2.5	94,845	12.7	280
3/2/2025	6:00:00	7.5	1.295	2.3	94,864	12.8	280
3/2/2025	6:15:00	7.5	0.874	2.4	94,882	12.7	278
3/2/2025	6:30:00	7.9	1.234	1.3	94,898	10.9	275
3/2/2025	6:45:00	7	1.139	1.1	94,916	10.7	301
3/2/2025	7:00:00	6.9	0.000	1.4	94,918	10.8	320
3/2/2025	7:15:00	6.9	0.810	2.8	94,921	10.8	329
3/2/2025	7:30:00	6.7	1.298	1.2	94,936	10.4	327
3/2/2025	7:45:00	6.6	1.211	1	94,955	10.6	327
3/2/2025	8:00:00	6.5	0.659	2.6	94,968	10.4	330
3/2/2025	8:15:00	6.6	1.355	1.1	94,983	10.4	319
3/2/2025	8:30:00	6.9	1.336	0.9	95,003	10.4	307
3/2/2025	8:45:00	7	1.912	1.2	95,023	10.4	299

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	9:00:00	7.4	1.325	4.5	95,048	10.3	292
3/2/2025	9:15:00	7.5	1.991	2.7	95,077	10.3	286
3/2/2025	9:30:00	7.5	0.322	4.2	95,104	10.3	287
3/2/2025	9:45:00	7.5	0.000	2.7	95,105	10.4	287
3/2/2025	10:00:00	7.4	0.924	4.8	95,106	10.6	287
3/2/2025	10:15:00	7.1	1.314	1.2	95,125	10.4	284
3/2/2025	10:30:00	7.2	1.317	1.1	95,145	10.5	281
3/2/2025	10:45:00	7.4	1.507	4.5	95,165	10.5	279
3/2/2025	11:00:00	7.6	1.480	2.3	95,188	10.5	276
3/2/2025	11:15:00	7.7	0.095	12.4	95,197	10.5	278
3/2/2025	11:30:00	7.2	0.000	2.1	95,201	10.6	286
3/2/2025	11:45:00	7.2	1.287	1.2	95,216	10.6	279
3/2/2025	12:00:00	7.5	1.745	2.5	95,241	10.6	276
3/2/2025	12:15:00	7.4	1.726	3.7	95,267	10.7	281
3/2/2025	12:45:00	7.6	0.000	5.5	95,296	10.8	286
3/2/2025	13:00:00	7	1.866	4.9	95,312	10.7	298
3/2/2025	13:15:00	7.3	1.832	8.5	95,340	10.7	286
3/2/2025	13:30:00	7.8	0.273	10.8	95,359	10.7	283
3/2/2025	13:45:00	7.2	1.219	2.4	95,376	10.8	283
3/2/2025	14:00:00	7.2	1.181	2.9	95,394	10.8	281
3/2/2025	14:15:00	7.3	1.162	2.6	95,412	10.8	281
3/2/2025	14:30:00	7.3	0.344	2.3	95,422	11	279
3/2/2025	15:15:00	7.3	1.268	3.4	95,440	10.9	278
3/2/2025	15:30:00	7.3	1.291	3.9	95,459	10.9	274
3/2/2025	15:45:00	7.3	1.230	4.9	95,478	11	274

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	16:30:00	7.4	1.370	2.3	95,508	11	276
3/2/2025	16:45:00	7.4	1.336	2.7	95,528	11	276
3/2/2025	17:00:00	7.5	1.329	2.5	95,548	11.1	277
3/2/2025	17:15:00	7.6	1.268	3.2	95,567	11	277
3/2/2025	17:45:00	7.4	1.359	2.8	95,574	11.2	280
3/2/2025	18:00:00	7.7	1.298	3.1	95,594	11	277
3/2/2025	18:15:00	7.7	1.276	3.5	95,614	11	276
3/2/2025	18:30:00	8	1.139	3	95,626	11.2	276
3/2/2025	18:45:00	7.6	1.332	1.2	95,646	11.1	279
3/2/2025	19:00:00	7.6	1.325	1.3	95,666	11.4	279
3/2/2025	19:15:00	7.6	1.268	1.5	95,685	11.7	276
3/2/2025	19:30:00	7.5	1.336	1.3	95,701	11.9	276
3/2/2025	20:15:00	7.5	0.000	1.9	95,723	10.9	274
3/2/2025	20:30:00	7.5	0.337	1.4	95,741	11.2	278
3/2/2025	20:45:00	7.4	0.000	1.6	95,742	11.7	276
3/2/2025	21:00:00	7.6	1.435	4	95,747	11.2	274
3/2/2025	21:15:00	7	1.336	0.6	95,768	11.2	284
3/2/2025	21:30:00	7.3	1.435	0.7	95,789	11.4	283
3/2/2025	21:45:00	7.3	1.503	0.8	95,810	11.7	281
3/2/2025	22:00:00	7.5	0.939	0.2	95,831	14.1	115
3/2/2025	22:15:00	7.5	1.302	2.7	95,850	14.9	114
3/2/2025	22:30:00	7.4	1.321	10.5	95,868	15.4	113
3/2/2025	22:45:00	7.4	0.238	9	95,887	15.6	113
3/2/2025	23:00:00	7.4	0.000	0.5	95,888	16	114
3/2/2025	23:15:00	7.4	0.000	0.6	95,893	16.4	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	23:30:00	7.4	0.874	0.5	95,897	17.7	114
3/2/2025	23:45:00	7.1	1.200	0.4	95,911	12	307

Table 3. In-Situ Parameters

Date	Time	Temperature °C	DO mg/L	Conductivity SPC-uS/cm	SAL-ppt	pH	ORP (mV)	NTU
02/24/2025	11:25:50AM	10.3	10.76	259.6	0.12	7.90	56.6	0.68
02/25/2025	10:43:25AM	10.2	10.83	232.0	0.11	7.72	166.3	5.49
02/26/2025	11:30:31AM	10.5	10.56	166.9	0.08	7.06	134.8	5.43
02/27/2025	09:36:08PM	10.5	10.76	170.2	0.08	8.56	109.3	2.56
02/28/2025	10:14:59AM	10.6	10.75	144.1	0.07	7.56	122.3	3.08
03/1/2025	02:56:52PM	10.9	10.37	144.2	0.07	7.03	159.4	3.75
03/2/2025	05:46:58PM	11.2	9.48	153.2	0.07	7.68	136.4	4.26

3. Calibration Log:

Table 4. Calibration Log

Date	Unit	pH	Conductivity/Temp.	Salinity	NTU
2/28/2025	YSI	✓	✓	✓	✓
2/28/2025	WTP	✓	N/A	N/A	✓

APPENDIX A: WTP Log

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	0:00:00	6.5	1.389	1.5	86,875	Open	16	411
2/24/2025	0:15:00	6.8	1.332	1.4	86,896	Open	13.7	439
2/24/2025	0:30:00	8.2	0.000	30.2	86,904	Open	10.9	426
2/24/2025	0:45:00	8.2	1.404	29	86,907	Open	12.6	437
2/24/2025	1:00:00	6.8	1.431	5.3	86,922	Open	10.6	570
2/24/2025	1:15:00	6.5	1.457	4.5	86,942	Open	10.8	621
2/24/2025	1:30:00	6.5	1.590	7.6	86,956	Open	11.6	639
2/24/2025	1:45:00	7.2	1.480	5.2	86,978	Open	11	569
2/24/2025	2:00:00	7.1	0.000	13.6	86,992	Open	10.8	657
2/24/2025	2:15:00	6.8	1.094	17.9	87,009	Open	10.6	709
2/24/2025	2:30:00	7.4	0.167	17	87,016	Open	10.7	694
2/24/2025	2:45:00	9.3	0.000	61.9	87,017	Open	10.7	576
2/24/2025	3:00:00	7.2	1.351	14.9	87,026	Open	10.6	689
2/24/2025	3:15:00	8.1	1.491	18.7	87,046	Open	10.7	791
2/24/2025	3:30:00	8.1	0.189	29	87,058	Open	10.8	741
2/24/2025	3:45:00	7.9	0.000	15.3	87,060	Open	11.1	756
2/24/2025	4:00:00	8	1.563	15.2	87,061	Open	11.7	764
2/24/2025	4:15:00	6.6	1.518	4.9	87,084	Open	11.3	769
2/24/2025	4:30:00	6.6	1.491	4.8	87,106	Open	12.2	111
2/24/2025	4:45:00	6.8	0.235	4.5	87,127	Open	12.5	113
2/24/2025	5:00:00	7.1	1.401	4.2	87,138	Open	11.9	617
2/24/2025	5:15:00	7.2	1.488	3	87,160	Open	10.9	542
2/24/2025	5:30:00	7.2	0.908	3.1	87,177	Open	10.5	477
2/24/2025	5:45:00	7.2	0.000	2.4	87,180	Open	10.8	477
2/24/2025	6:00:00	7.2	0.000	2.3	87,180	Open	11.3	475

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	6:15:00	7.3	1.597	21	87,184	Open	12	458
2/24/2025	6:30:00	7.3	1.537	0.5	87,207	Open	10.6	420
2/24/2025	6:45:00	7.3	1.480	0.6	87,230	Open	10.7	404
2/24/2025	7:00:00	7.4	0.000	1	87,246	Open	10.7	392
2/24/2025	7:15:00	7.4	0.000	1.1	87,246	Open	11.4	387
2/24/2025	7:30:00	7.2	0.734	1	87,256	Open	10.4	369
2/24/2025	7:45:00	7.1	0.000	0.6	87,267	Open	10.6	368
2/24/2025	8:00:00	7.1	0.000	0.6	87,267	Open	11.5	371
2/24/2025	8:15:00	7.1	1.556	0.9	87,283	Open	10.7	368
2/24/2025	8:30:00	7.2	0.155	3.3	87,286	Open	10.9	363
2/24/2025	8:45:00	7.2	1.639	10.8	87,291	Open	11	355
2/24/2025	9:00:00	6.6	1.132	0.6	87,313	Open	10.8	360
2/24/2025	9:15:00	7.4	1.548	0.8	87,334	Open	10.6	382
2/24/2025	9:30:00	7.5	1.094	2.7	87,355	Open	10.9	368
2/24/2025	9:45:00	7.4	0.000	2.2	87,356	Open	11.1	364
2/24/2025	10:00:00	7.5	0.000	2.8	87,356	Open	11.3	364
2/24/2025	10:15:00	6.6	1.488	0.7	87,375	Open	10.7	387
2/24/2025	10:30:00	6.8	0.000	1.2	87,390	Open	10.8	428
2/24/2025	10:45:00	6.8	0.000	1.1	87,390	Open	11.1	427
2/24/2025	11:00:00	6.9	0.999	0.8	87,400	Open	11.1	417
2/24/2025	11:15:00	6.6	1.401	0.6	87,420	Open	10.8	404
2/24/2025	11:30:00	6.7	0.000	0.9	87,438	Open	11.5	112
2/24/2025	11:45:00	6.7	1.412	37.1	87,438	Open	12.6	111
2/24/2025	12:00:00	7.1	1.018	0.9	87,457	Open	11.1	397
2/24/2025	12:15:00	7.2	1.404	0.6	87,477	Open	11	387
2/24/2025	12:30:00	6.6	0.000	0.5	87,492	Open	11.3	370

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	12:45:00	6.8	1.404	0.9	87,494	Open	11.5	379
2/24/2025	13:00:00	7	0.996	0.6	87,514	Open	11.4	399
2/24/2025	13:15:00	7.4	1.370	0.9	87,533	Open	11.5	385
2/24/2025	13:30:00	7.5	0.000	0.9	87,538	Open	11.8	371
2/24/2025	13:45:00	7.5	0.000	0.8	87,538	Open	12.1	366
2/24/2025	14:00:00	8.2	1.128	1.5	87,546	Open	11.7	361
2/24/2025	14:15:00	8.4	1.385	0.7	87,566	Open	11.7	361
2/24/2025	14:30:00	7.3	1.336	0.5	87,585	Open	12.1	369
2/24/2025	14:45:00	7.2	0.000	0.9	87,587	Open	12.3	375
2/24/2025	15:00:00	6.2	1.344	0.6	87,593	Open	11.2	497
2/24/2025	15:15:00	6.9	1.355	0.6	87,613	Open	11	492
2/24/2025	15:30:00	7.1	0.136	1.2	87,619	Open	11.2	420
2/24/2025	15:45:00	7.6	0.151	4.9	87,625	Open	10.8	387
2/24/2025	16:00:00	8.7	1.537	1	87,639	Open	10.8	324
2/24/2025	16:15:00	10	0.216	17.4	87,660	Open	10.9	308
2/24/2025	16:30:00	10.2	0.000	7.1	87,660	Open	10.8	319
2/24/2025	16:45:00	9.1	0.693	1.2	87,678	Open	10.7	297
2/24/2025	17:00:00	9.3	1.639	5.3	87,700	Open	10.9	295
2/24/2025	17:15:00	8.9	1.597	13.5	87,705	Open	11.3	293
2/24/2025	17:30:00	8.5	0.155	1.1	87,720	Open	11	303
2/24/2025	17:45:00	8	1.613	1.7	87,731	Open	11	315
2/24/2025	18:00:00	7.4	1.526	0.8	87,754	Open	11	318
2/24/2025	18:15:00	7.1	0.132	1	87,772	Open	11.1	323
2/24/2025	18:30:00	7	1.503	1.5	87,789	Open	11	328
2/24/2025	18:45:00	7	1.435	0.9	87,811	Open	11.3	328
2/24/2025	19:00:00	7	0.000	1.1	87,822	Open	11.6	323

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/24/2025	19:15:00	7	0.000	1.1	87,824	Open	11.9	323
2/24/2025	19:30:00	7.3	1.480	5.4	87,832	Open	11.7	321
2/24/2025	19:45:00	7.4	1.420	1.2	87,854	Open	11.3	323
2/24/2025	20:00:00	7.4	0.000	1.1	87,869	Open	11.8	324
2/24/2025	20:15:00	7.4	1.385	1.1	87,870	Open	12.5	323
2/24/2025	20:30:00	7.3	1.393	1.9	87,888	Open	11.1	308
2/24/2025	21:45:00	6.7	0.662	4.4	87,914	Open	10.4	288
2/24/2025	22:00:00	7.1	0.132	10.8	87,932	Open	10.5	298
2/24/2025	22:15:00	7.3	0.000	9.9	87,932	Open	10.8	109
2/24/2025	22:30:00	7.7	1.938	3.8	87,953	Open	10.4	299
2/24/2025	22:45:00	7.8	0.000	6.4	87,964	Open	10.4	299
2/24/2025	23:00:00	7.9	0.000	6.2	87,964	Open	10.9	299
2/24/2025	23:15:00	7.3	1.753	4.4	87,973	Open	10.3	291
2/24/2025	23:30:00	7.1	1.408	18.9	87,997	Open	10.3	294
2/24/2025	23:45:00	7.3	0.000	12.3	88,008	Open	10.3	299
2/25/2025	0:00:00	7.6	1.556	8.1	88,013	Open	10.3	300
2/25/2025	0:15:00	7.7	1.181	15.8	88,029	Open	10.3	296
2/25/2025	0:30:00	7.1	1.828	13.3	88,051	Open	10.3	291
2/25/2025	0:45:00	6.9	0.000	66.2	88,073	Open	10.3	291
2/25/2025	1:00:00	6.9	0.000	16.5	88,073	Open	10.5	298
2/25/2025	1:15:00	7.1	0.636	12.3	88,085	Open	10.4	296
2/25/2025	1:30:00	7.2	1.548	6.7	88,097	Open	10.3	293
2/25/2025	1:45:00	7.3	1.526	9	88,117	Open	10.4	293
2/25/2025	2:00:00	7.5	0.000	6.2	88,124	Open	10.5	295
2/25/2025	2:15:00	8	1.102	9.7	88,145	Open	10.3	292
2/25/2025	2:30:00	8.5	0.886	27.3	88,162	Open	10.4	293

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	2:45:00	8.7	0.000	43.2	88,177	Open	10.4	321
2/25/2025	3:00:00	8.4	1.847	60.3	88,191	Open	10.4	346
2/25/2025	3:15:00	8.2	0.000	21.1	88,202	Open	10.6	354
2/25/2025	3:30:00	7.9	1.450	12.2	88,222	Open	10.4	358
2/25/2025	3:45:00	7.9	0.000	34.4	88,229	Open	11.1	361
2/25/2025	4:00:00	8	0.000	11	88,235	Open	10.4	356
2/25/2025	4:15:00	8.2	1.302	8.2	88,243	Open	10.3	375
2/25/2025	4:30:00	8.4	0.000	3.3	88,247	Open	10.3	412
2/25/2025	4:45:00	8.3	0.000	10.2	88,262	Open	10.5	443
2/25/2025	5:00:00	7.6	0.000	1.3	88,273	Open	10.5	444
2/25/2025	5:15:00	7.6	0.000	1	88,273	Open	11.3	440
2/25/2025	5:30:00	7.1	1.446	0.1	88,293	Open	10.5	409
2/25/2025	5:45:00	7.2	0.530	0.4	88,312	Open	10.8	396
2/25/2025	6:00:00	7.4	0.223	3.7	88,324	Open	10.7	376
2/25/2025	6:15:00	7.5	1.715	1.3	88,326	Open	11.6	368
2/25/2025	6:30:00	7.6	0.204	0.1	88,345	Open	10.9	355
2/25/2025	6:45:00	7.6	1.828	0	88,364	Open	10.7	341
2/25/2025	7:00:00	7.6	1.404	10.7	88,390	Open	10.7	335
2/25/2025	7:15:00	7.7	0.322	5.1	88,405	Open	10.8	334
2/25/2025	7:30:00	7.6	0.000	1.6	88,405	Open	11.6	338
2/25/2025	7:45:00	7.6	1.745	1.1	88,414	Open	10.8	333
2/25/2025	8:00:00	7.7	1.790	1.2	88,441	Open	10.4	326
2/25/2025	8:15:00	7.4	1.859	22.4	88,455	Open	10.8	347
2/25/2025	8:30:00	6.8	1.832	3.1	88,483	Open	10.3	305
2/25/2025	8:45:00	6.7	0.000	3.4	88,505	Open	10.3	300
2/25/2025	9:00:00	7.2	0.254	16.4	88,507	Open	10.3	306

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	9:15:00	8	0.000	8.7	88,509	Open	10.4	304
2/25/2025	9:30:00	8.1	0.000	4.6	88,509	Open	10.8	307
2/25/2025	9:45:00	6.9	1.582	3.6	88,523	Open	10.2	325
2/25/2025	10:00:00	6.6	0.265	4.7	88,533	Open	10.5	344
2/25/2025	10:15:00	6.7	2.052	3.2	88,551	Open	10.3	349
2/25/2025	10:30:00	6.9	0.000	5	88,569	Open	10.4	353
2/25/2025	10:45:00	7	1.995	5.3	88,572	Open	10.7	354
2/25/2025	11:00:00	7.2	0.220	2.1	88,581	Open	10.5	349
2/25/2025	11:15:00	8.3	2.040	2.2	88,600	Open	10.4	318
2/25/2025	11:30:00	8.8	0.556	8.5	88,623	Open	10.4	303
2/25/2025	11:45:00	7.8	0.734	46.3	88,632	Open	10.7	350
2/25/2025	12:00:00	7.3	0.000	12.1	88,641	Open	10.7	338
2/25/2025	12:15:00	7.3	0.617	10.2	88,650	Open	11.1	346
2/25/2025	12:30:00	6.4	1.643	174.8	88,673	Open	10.7	365
2/25/2025	12:45:00	7.4	1.654	35.3	88,695	Open	10.6	421
2/25/2025	13:30:00	8.9	0.587	2.1	88,711	Open	10.8	375
2/25/2025	13:45:00	8.9	0.000	32	88,712	Open	12	111
2/25/2025	14:00:00	8.4	1.461	5.9	88,716	Open	11	410
2/25/2025	14:15:00	7.5	1.408	0.7	88,737	Open	10.9	481
2/25/2025	14:30:00	7	0.273	0.7	88,757	Open	10.9	542
2/25/2025	14:45:00	7	0.000	0.7	88,757	Open	11.1	558
2/25/2025	15:00:00	6.9	0.148	0.8	88,768	Open	10.9	583
2/25/2025	16:00:00	7.4	1.435	0.8	88,781	Open	10.9	491
2/25/2025	16:15:00	8.1	1.382	0.8	88,802	Open	10.8	430
2/25/2025	16:30:00	8.4	1.401	0.8	88,820	Open	10.9	408
2/25/2025	16:45:00	8.5	2.214	20.7	88,831	Open	10.9	391

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/25/2025	17:15:00	7.9	1.404	1.1	88,850	Open	10.9	390
2/25/2025	17:30:00	7.1	0.000	1.3	88,863	Open	10.8	416
2/25/2025	17:45:00	6.9	1.367	1.9	88,880	Open	10.8	408
2/25/2025	18:30:00	7.2	1.412	1.6	88,897	Open	10.7	355
2/25/2025	18:45:00	7.3	1.404	1.8	88,912	Open	10.7	347
2/25/2025	19:00:00	7.4	0.000	1.4	88,919	Open	10.8	345
2/25/2025	19:15:00	7.4	1.416	2.3	88,935	Open	10.6	335
2/25/2025	19:30:00	7.7	1.423	2.8	88,953	Open	10.6	329
2/25/2025	19:45:00	8.3	1.450	2.5	88,974	Open	10.6	312
2/25/2025	20:00:00	8.7	0.000	2.3	88,993	Open	10.6	297
2/25/2025	20:15:00	8.7	0.000	2.1	88,993	Open	11.6	112
2/25/2025	20:30:00	8.4	1.355	2.6	88,994	Open	11.8	298
2/25/2025	20:45:00	8.5	0.825	2.2	89,012	Open	10.6	291
2/25/2025	21:00:00	8.6	1.310	2.1	89,032	Open	10.5	287
2/25/2025	21:15:00	8.7	0.000	1.8	89,044	Open	10.6	287
2/25/2025	21:30:00	8.4	1.382	1.8	89,048	Open	10.5	300
2/25/2025	21:45:00	8.7	0.946	1.9	89,067	Open	10.5	284
2/25/2025	22:00:00	7.8	0.000	403.1	89,083	Open	10.5	273
2/25/2025	22:15:00	9.8	0.000	403	89,084	Open	10.7	273
2/25/2025	22:30:00	8.4	1.385	2	89,089	Open	10.6	284
2/25/2025	22:45:00	7	0.000	2.3	89,104	Open	10.7	268
2/25/2025	23:00:00	7	0.000	2.4	89,104	Open	11.3	109
2/25/2025	23:15:00	6.9	1.692	3.2	89,120	Open	10.7	304
2/25/2025	23:30:00	6.9	1.658	1.6	89,145	Open	10.7	408
2/25/2025	23:45:00	6.9	0.201	1.8	89,162	Open	10.7	493
2/26/2025	0:00:00	6.9	0.159	1.5	89,170	Open	10.8	469

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	0:15:00	6.9	0.307	1.4	89,183	Open	10.9	524
2/26/2025	0:30:00	6.9	1.681	1.5	89,196	Open	10.9	524
2/26/2025	0:45:00	6.9	0.185	2.6	89,210	Open	11	494
2/26/2025	1:00:00	6.9	0.106	5.9	89,225	Open	11	436
2/26/2025	1:15:00	6.9	0.000	4.8	89,226	Open	11.2	428
2/26/2025	1:30:00	8	0.000	6.7	89,231	Open	11.2	466
2/26/2025	1:45:00	6.9	1.779	8.1	89,250	Open	11.3	499
2/26/2025	2:00:00	6.4	1.666	4.5	89,268	Open	11.2	460
2/26/2025	2:15:00	6.8	1.401	13.3	89,279	Open	11.7	440
2/26/2025	2:30:00	6.9	0.598	3.3	89,297	Open	11.8	456
2/26/2025	2:45:00	6.9	1.579	2.8	89,309	Open	11.6	369
2/26/2025	3:00:00	6.7	1.639	1.1	89,333	Open	11.5	333
2/26/2025	3:15:00	6.7	1.666	1.9	89,348	Open	11.7	342
2/26/2025	3:30:00	6.7	1.155	1.9	89,372	Open	12.1	346
2/26/2025	3:45:00	6.8	0.280	2	89,393	Open	11.5	332
2/26/2025	4:00:00	6.7	0.409	4.1	89,394	Open	11.9	333
2/26/2025	4:15:00	6.6	1.628	2.2	89,405	Open	11.7	375
2/26/2025	4:30:00	6.5	0.242	1.3	89,427	Open	12	385
2/26/2025	4:45:00	6.5	0.000	1.2	89,427	Open	12.2	390
2/26/2025	5:00:00	6.6	1.624	1.9	89,442	Open	12.3	405
2/26/2025	5:15:00	6.2	1.560	0.9	89,465	Open	11.1	359
2/26/2025	5:30:00	6.2	0.000	1.1	89,479	Open	11.1	111
2/26/2025	5:45:00	6.2	0.000	0.8	89,479	Open	11.7	113
2/26/2025	6:00:00	6.3	1.609	0	89,495	Open	11.3	400
2/26/2025	6:15:00	6.4	0.379	0	89,518	Open	12.1	401
2/26/2025	6:30:00	6.4	0.000	0	89,519	Open	13	422

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	6:45:00	6.9	0.000	11.5	89,524	Open	11.2	317
2/26/2025	7:00:00	7.1	1.700	2.4	89,527	Open	11.5	299
2/26/2025	7:15:00	7.4	1.556	0	89,552	Open	11.2	297
2/26/2025	7:30:00	7.7	1.537	0	89,575	Open	11.2	291
2/26/2025	7:45:00	7.5	0.000	0	89,576	Open	11.7	297
2/26/2025	8:00:00	6.5	1.518	0	89,597	Open	10.9	354
2/26/2025	8:15:00	7	1.495	0.2	89,620	Open	10.8	305
2/26/2025	8:30:00	7.2	1.491	0.3	89,640	Open	10.8	292
2/26/2025	8:45:00	7.2	0.000	0.8	89,644	Open	11.5	295
2/26/2025	9:00:00	8	0.000	2.9	89,646	Open	11.3	290
2/26/2025	9:15:00	7.3	1.560	4.3	89,650	Open	10.9	298
2/26/2025	9:30:00	6.9	1.518	0.5	89,673	Open	10.7	287
2/26/2025	9:45:00	7	1.541	0.4	89,694	Open	10.8	303
2/26/2025	10:00:00	7.3	0.000	0.5	89,708	Open	10.8	287
2/26/2025	10:15:00	7.3	0.178	0.9	89,720	Open	10.8	283
2/26/2025	10:30:00	7.3	0.000	0.7	89,720	Open	11	286
2/26/2025	10:45:00	7.3	0.000	0.5	89,720	Open	11.3	289
2/26/2025	11:00:00	7.3	0.000	0.6	89,720	Open	11.5	293
2/26/2025	11:15:00	6.8	0.000	0.6	89,730	Open	10.9	301
2/26/2025	11:30:00	7	1.514	0.7	89,746	Open	10.8	306
2/26/2025	11:45:00	7.2	1.442	0.7	89,768	Open	10.8	286
2/26/2025	12:00:00	6.9	1.438	0.7	89,790	Open	10.9	298
2/26/2025	12:15:00	7.2	1.416	0.8	89,805	Open	10.9	294
2/26/2025	13:30:00	7	0.958	1.2	89,826	Open	11.1	289
2/26/2025	13:45:00	7	0.000	2.6	89,828	Open	11.3	306
2/26/2025	14:00:00	7	0.000	1.8	89,828	Open	11.5	308

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	14:15:00	7.1	1.491	2.6	89,832	Open	11.3	314
2/26/2025	14:30:00	6.9	1.465	1.9	89,854	Open	11.2	306
2/26/2025	14:45:00	7.4	1.412	2.6	89,876	Open	11.2	278
2/26/2025	15:00:00	7.1	1.404	2.6	89,897	Open	11.3	298
2/26/2025	15:15:00	7.2	0.000	2.3	89,898	Open	11.6	111
2/26/2025	15:30:00	7.2	0.000	1.9	89,898	Open	11.9	111
2/26/2025	15:45:00	7.3	1.438	2.6	89,907	Open	11.4	288
2/26/2025	16:00:00	7.2	1.370	2.6	89,928	Open	11.5	297
2/26/2025	16:15:00	6.9	0.901	2.3	89,948	Open	11.5	301
2/26/2025	16:30:00	7.4	1.416	2.2	89,966	Open	11.5	282
2/26/2025	16:45:00	7	0.000	2.2	89,978	Open	11.6	316
2/26/2025	17:00:00	7	0.000	2	89,978	Open	11.9	318
2/26/2025	17:15:00	6.9	1.469	3.5	89,986	Open	11.5	301
2/26/2025	17:30:00	7.2	1.503	1.8	90,006	Open	11.5	298
2/26/2025	17:45:00	7	1.450	1.5	90,028	Open	11.5	288
2/26/2025	18:00:00	7.1	0.000	1.9	90,043	Open	11.6	306
2/26/2025	18:15:00	7.3	1.431	1.7	90,053	Open	11.5	295
2/26/2025	18:30:00	7	1.450	5.4	90,066	Open	11.6	301
2/26/2025	18:45:00	7.4	1.427	1.7	90,088	Open	11.5	287
2/26/2025	19:00:00	7.1	1.230	3.1	90,107	Open	11.5	316
2/26/2025	19:15:00	6.9	0.000	1.5	90,125	Open	11.4	303
2/26/2025	19:30:00	6.9	0.000	1.4	90,125	Open	11.6	308
2/26/2025	19:45:00	7.1	1.416	1.5	90,135	Open	11.3	306
2/26/2025	20:00:00	6.8	1.056	0.9	90,149	Open	11.7	314
2/26/2025	20:15:00	7.2	1.518	0.4	90,171	Open	11.8	302
2/26/2025	20:30:00	6.9	1.529	0.7	90,187	Open	11.6	328

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/26/2025	20:45:00	6.8	0.000	0.4	90,188	Open	11.9	329
2/26/2025	21:00:00	6.8	0.000	0.6	90,188	Open	12.5	330
2/26/2025	21:15:00	6.8	1.624	0.7	90,203	Open	11.4	298
2/26/2025	21:30:00	7	1.594	1	90,223	Open	11.3	292
2/26/2025	21:45:00	7	0.106	1.2	90,242	Open	11.5	296
2/26/2025	22:00:00	7.1	1.582	1.1	90,252	Open	11.7	292
2/26/2025	22:15:00	7.1	1.541	1	90,275	Open	12.1	295
2/26/2025	22:30:00	7.1	0.000	1.1	90,280	Open	13.1	295
2/26/2025	22:45:00	6.4	0.746	1.5	90,288	Open	11.3	364
2/26/2025	23:00:00	6.5	0.246	2.6	90,306	Open	11.2	354
2/26/2025	23:15:00	6.6	1.563	1.6	90,313	Open	11.3	350
2/26/2025	23:30:00	6.7	1.582	1.2	90,336	Open	11.5	347
2/26/2025	23:45:00	6.7	1.090	1.1	90,359	Open	11.8	345
2/27/2025	0:00:00	6.6	0.000	1.2	90,363	Open	12.1	344
2/27/2025	0:15:00	6.9	1.548	1.6	90,368	Open	11.4	324
2/27/2025	0:30:00	7.2	1.632	2.5	90,380	Open	11.3	314
2/27/2025	0:45:00	7	1.556	2.2	90,403	Open	11.6	309
2/27/2025	1:00:00	7.1	0.000	2.1	90,406	Open	11.8	307
2/27/2025	1:15:00	7.1	0.000	2.1	90,406	Open	12	304
2/27/2025	1:30:00	6.3	0.000	0.7	90,419	Open	11.1	364
2/27/2025	1:45:00	6.5	1.552	0.8	90,440	Open	11.4	367
2/27/2025	2:00:00	6.5	0.000	0.9	90,448	Open	12	371
2/27/2025	2:15:00	6.7	1.548	0.8	90,463	Open	11.6	348
2/27/2025	2:30:00	6.7	1.552	0.5	90,486	Open	12.3	341
2/27/2025	2:45:00	6.7	1.423	0.5	90,509	Open	13.1	341
2/27/2025	3:00:00	7.2	0.000	1.4	90,512	Open	14.1	325

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	3:15:00	7	1.510	2.9	90,516	Open	13.5	304
2/27/2025	3:30:00	6.4	1.484	0.7	90,538	Open	11.6	327
2/27/2025	3:45:00	6.4	0.000	0.9	90,551	Open	13.6	341
2/27/2025	4:00:00	6.3	0.000	0.7	90,551	Open	14	348
2/27/2025	4:15:00	6.3	0.000	0.7	90,551	Open	14.5	353
2/27/2025	4:30:00	6.2	0.893	1	90,560	Open	11.5	386
2/27/2025	4:45:00	6	1.363	0.1	90,579	Open	10.9	355
2/27/2025	5:00:00	6.1	1.321	0.4	90,600	Open	10.7	340
2/27/2025	5:15:00	6	0.000	2.3	90,615	Open	10.7	366
2/27/2025	5:30:00	6	0.000	2.5	90,615	Open	10.9	384
2/27/2025	5:45:00	6.2	0.000	7.2	90,619	Open	11	379
2/27/2025	6:00:00	6.2	1.601	3	90,621	Open	12.1	370
2/27/2025	6:15:00	6.6	0.352	1.8	90,644	Open	10.7	329
2/27/2025	6:30:00	6.7	1.488	1.3	90,662	Open	11.1	329
2/27/2025	6:45:00	6.8	1.488	1.2	90,684	Open	12	324
2/27/2025	7:00:00	6.8	0.000	1	90,704	Open	12.6	325
2/27/2025	7:15:00	6.8	0.000	0.8	90,704	Open	13.2	323
2/27/2025	7:30:00	6.7	1.465	0.9	90,719	Open	17.3	116
2/27/2025	7:45:00	6.8	1.268	5.1	90,728	Open	17.2	268
2/27/2025	8:00:00	6.8	1.385	1.3	90,750	Open	16.9	322
2/27/2025	8:15:00	6.9	0.125	0.7	90,762	Open	10.9	299
2/27/2025	8:30:00	7	0.927	0.8	90,772	Open	10.8	300
2/27/2025	8:45:00	7.1	0.204	0.7	90,791	Open	10.7	295
2/27/2025	9:00:00	7	1.397	2.5	90,792	Open	11.1	298
2/27/2025	9:15:00	7.1	1.412	0.2	90,813	Open	10.7	294
2/27/2025	9:30:00	7.2	1.037	0.2	90,833	Open	10.8	292

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	9:45:00	7.2	0.742	1.6	90,851	Open	10.7	291
2/27/2025	10:00:00	7.2	1.374	0.5	90,870	Open	10.7	288
2/27/2025	10:15:00	7.3	0.098	0.6	90,888	Open	10.7	288
2/27/2025	10:30:00	7.2	1.423	1.4	90,900	Open	10.8	290
2/27/2025	10:45:00	7.3	0.000	0.7	90,911	Open	10.9	290
2/27/2025	11:00:00	7.2	0.000	0.8	90,912	Open	11.4	293
2/27/2025	11:15:00	7.2	0.000	0.7	90,912	Open	11.7	294
2/27/2025	11:30:00	7.2	0.000	0.7	90,912	Open	11.8	294
2/27/2025	11:45:00	7.2	0.943	0.8	90,933	Open	10.7	291
2/27/2025	12:00:00	7.3	1.438	0.8	90,952	Open	10.7	289
2/27/2025	12:15:00	7.3	1.397	1	90,974	Open	10.7	288
2/27/2025	12:30:00	7.4	0.114	0.8	90,990	Open	10.8	288
2/27/2025	12:45:00	7.5	0.000	2.4	90,992	Open	10.9	288
2/27/2025	13:00:00	7.3	1.476	0.9	91,009	Open	10.8	284
2/27/2025	13:15:00	7.4	1.404	0.8	91,031	Open	10.8	284
2/27/2025	13:30:00	7.4	1.374	0.8	91,052	Open	10.9	283
2/27/2025	13:45:00	7.5	0.916	1	91,071	Open	10.9	281
2/27/2025	14:00:00	7.4	1.431	0.7	91,091	Open	10.9	281
2/27/2025	14:15:00	7	0.000	0.8	91,107	Open	11	308
2/27/2025	14:30:00	7	0.000	0.9	91,107	Open	11.2	309
2/27/2025	14:45:00	7.2	1.389	1	91,117	Open	10.9	299
2/27/2025	15:00:00	7.3	1.393	1.6	91,138	Open	10.9	283
2/27/2025	15:15:00	6.8	1.385	1.7	91,159	Open	10.9	284
2/27/2025	15:30:00	7.3	0.893	2.4	91,179	Open	11	286
2/27/2025	15:45:00	6.8	1.412	1.8	91,198	Open	10.9	281
2/27/2025	16:00:00	7.2	0.000	2.1	91,207	Open	11	293

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	16:15:00	6.6	1.450	1.5	91,224	Open	10.9	298
2/27/2025	16:30:00	7.1	1.423	1.3	91,245	Open	10.8	291
2/27/2025	16:45:00	7.3	1.389	1.3	91,266	Open	10.8	278
2/27/2025	17:00:00	7.4	1.382	1.1	91,287	Open	10.8	278
2/27/2025	17:15:00	7.6	1.454	1	91,305	Open	10.8	279
2/27/2025	17:30:00	6.9	0.000	1	91,321	Open	10.9	313
2/27/2025	17:45:00	7.5	1.442	0.9	91,340	Open	10.7	296
2/27/2025	18:00:00	8	1.423	1.1	91,361	Open	10.7	278
2/27/2025	18:15:00	6.8	1.363	0.7	91,382	Open	10.7	298
2/27/2025	18:30:00	7.2	0.000	0.9	91,393	Open	10.8	326
2/27/2025	18:45:00	7.2	0.000	1	91,393	Open	11	323
2/27/2025	19:00:00	7.2	1.389	1.9	91,396	Open	11	309
2/27/2025	19:15:00	6.9	1.351	0.9	91,417	Open	10.6	308
2/27/2025	19:30:00	7.3	1.442	0.8	91,435	Open	10.6	289
2/27/2025	19:45:00	7	1.397	0.8	91,456	Open	10.6	308
2/27/2025	20:00:00	7.2	1.385	0.7	91,476	Open	10.7	288
2/27/2025	20:15:00	7.3	0.000	0.5	91,488	Open	10.8	287
2/27/2025	20:30:00	7.3	0.000	0	91,488	Open	15	284
2/27/2025	20:45:00	7.2	0.000	1.5	91,491	Open	12	278
2/27/2025	21:00:00	6.3	1.552	0.4	91,495	Open	11.4	283
2/27/2025	21:15:00	6.3	1.495	0.4	91,518	Open	11.5	304
2/27/2025	21:30:00	6.3	1.518	0.9	91,541	Open	13.4	310
2/27/2025	21:45:00	6.3	1.469	0.4	91,563	Open	13.6	312
2/27/2025	22:00:00	6.3	1.412	0.6	91,585	Open	14.8	113
2/27/2025	22:15:00	6.5	0.000	0.6	91,594	Open	15.1	112
2/27/2025	22:30:00	6.4	0.000	0.9	91,594	Open	15.1	111

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/27/2025	22:45:00	6.4	0.106	1.2	91,595	Open	14.9	111
2/27/2025	23:00:00	6.4	1.491	0.8	91,599	Open	14.7	111
2/27/2025	23:15:00	6.4	1.529	0.9	91,622	Open	14.8	112
2/27/2025	23:30:00	7.3	1.090	2.6	91,642	Open	11.5	302
2/27/2025	23:45:00	7.4	1.397	22.3	91,647	Open	11.1	292
2/28/2025	0:00:00	7.4	1.412	0.9	91,668	Open	10.7	285
2/28/2025	0:15:00	7.4	1.484	0.8	91,690	Open	10.9	285
2/28/2025	0:30:00	6.9	0.946	0.7	91,711	Open	11	313
2/28/2025	0:45:00	7.2	1.454	0.8	91,731	Open	11	304
2/28/2025	1:00:00	7.3	1.454	0.7	91,753	Open	11.2	306
2/28/2025	1:15:00	7.3	0.000	0.8	91,757	Open	11.2	301
2/28/2025	1:30:00	7.3	0.000	0.8	91,757	Open	11.3	300
2/28/2025	1:45:00	7.3	1.473	0.8	91,766	Open	10.8	296
2/28/2025	2:00:00	7.3	0.000	0.8	91,769	Open	11.3	289
2/28/2025	2:15:00	7.4	0.000	1	91,770	Open	11.3	289
2/28/2025	2:30:00	7.4	0.000	1	91,770	Open	11.4	293
2/28/2025	2:45:00	7.1	1.529	1.3	91,775	Open	11.1	288
2/28/2025	3:00:00	7.3	1.537	1.3	91,797	Open	10.9	289
2/28/2025	3:15:00	7.4	1.465	1.1	91,820	Open	11.5	290
2/28/2025	3:30:00	7.4	1.450	0.7	91,842	Open	12	287
2/28/2025	3:45:00	6.5	1.461	0.7	91,860	Open	11.4	345
2/28/2025	4:00:00	7	1.450	1.2	91,881	Open	11.5	299
2/28/2025	4:15:00	7.4	0.106	1.2	91,901	Open	11.5	297
2/28/2025	4:30:00	7.4	0.000	1.4	91,901	Open	13	117
2/28/2025	4:45:00	7.4	1.457	1.1	91,917	Open	11.5	281
2/28/2025	5:00:00	7.8	1.438	0.9	91,938	Open	11.4	274

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	5:15:00	7.9	1.378	0.7	91,960	Open	11.4	276
2/28/2025	5:30:00	7.9	0.000	0.7	91,964	Open	11.6	281
2/28/2025	5:45:00	7.9	0.167	1	91,966	Open	11.9	277
2/28/2025	6:00:00	7.2	1.484	1.6	91,986	Open	13	112
2/28/2025	6:15:00	6.9	1.688	1	92,007	Open	13.4	281
2/28/2025	6:30:00	6.9	1.643	2.1	92,032	Open	13.7	280
2/28/2025	6:45:00	6.9	1.575	1.3	92,057	Open	13.9	282
2/28/2025	7:00:00	6.8	1.438	0.8	92,079	Open	11	317
2/28/2025	7:15:00	7.2	1.037	1.9	92,095	Open	10.9	282
2/28/2025	7:30:00	7.4	1.480	0.8	92,117	Open	11.4	283
2/28/2025	7:45:00	7.4	1.412	0.8	92,139	Open	11.7	282
2/28/2025	8:00:00	7.4	0.000	0.9	92,140	Open	12	283
2/28/2025	8:15:00	7.4	1.264	1.1	92,143	Open	12.2	283
2/28/2025	8:30:00	6.6	1.397	1.1	92,163	Open	10.8	313
2/28/2025	8:45:00	6.6	1.367	0.9	92,184	Open	11.1	315
2/28/2025	9:00:00	6.6	1.332	0.9	92,204	Open	12	111
2/28/2025	9:15:00	6.6	0.000	0.9	92,221	Open	12.2	111
2/28/2025	9:30:00	6.6	0.000	1	92,221	Open	12.3	111
2/28/2025	9:45:00	7.4	1.465	2.7	92,233	Open	10.8	273
2/28/2025	10:00:00	7.2	1.586	2.8	92,252	Open	10.8	278
2/28/2025	10:15:00	7.1	1.514	1.5	92,275	Open	10.9	283
2/28/2025	10:30:00	7.1	1.499	1.7	92,298	Open	10.9	279
2/28/2025	10:45:00	7.1	1.461	1.7	92,320	Open	11	273
2/28/2025	11:00:00	7.4	0.000	3.1	92,338	Open	11.2	267
2/28/2025	11:15:00	7.7	1.548	6.3	92,339	Open	11.5	266
2/28/2025	11:30:00	7.5	1.537	2.1	92,362	Open	11.3	268

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	11:45:00	7.3	0.242	2.2	92,384	Open	11.3	281
2/28/2025	12:00:00	7.3	0.000	1.6	92,385	Open	11.5	283
2/28/2025	12:15:00	7.2	1.457	12.6	92,385	Open	11.8	280
2/28/2025	12:30:00	7.5	1.503	2	92,408	Open	11.4	273
2/28/2025	12:45:00	7.2	1.446	1.6	92,430	Open	11.5	282
2/28/2025	13:00:00	7.5	0.999	2.3	92,451	Open	11.6	275
2/28/2025	13:15:00	7.3	1.374	1.8	92,470	Open	11.6	287
2/28/2025	13:30:00	7.3	1.336	2	92,491	Open	11.6	270
2/28/2025	13:45:00	7.6	1.382	4.1	92,511	Open	11.6	267
2/28/2025	14:00:00	7.4	0.999	2.1	92,532	Open	11.6	273
2/28/2025	14:15:00	7.5	0.000	1.9	92,533	Open	11.9	273
2/28/2025	14:30:00	7.5	0.000	2.9	92,533	Open	12.2	272
2/28/2025	14:45:00	7.6	1.431	1.6	92,550	Open	11.7	265
2/28/2025	15:00:00	7.4	1.397	2.3	92,571	Open	11.7	275
2/28/2025	15:15:00	7.5	1.473	1.6	92,590	Open	11.7	267
2/28/2025	15:30:00	7.5	1.457	1.6	92,612	Open	11.7	277
2/28/2025	15:45:00	7.4	0.000	1.5	92,619	Open	11.8	268
2/28/2025	16:00:00	7.4	0.000	1.5	92,619	Open	12	269
2/28/2025	16:15:00	7.3	1.480	1.7	92,629	Open	11.6	277
2/28/2025	16:30:00	7.2	1.442	3.2	92,651	Open	11.5	268
2/28/2025	16:45:00	7.6	1.435	2.3	92,672	Open	11.5	263
2/28/2025	17:00:00	7.3	0.000	1.5	92,688	Open	11.5	273
2/28/2025	17:15:00	7.3	0.057	1.6	92,689	Open	11.7	273
2/28/2025	17:30:00	7.3	0.000	1.5	92,689	Open	11.9	273
2/28/2025	17:45:00	7.3	0.000	1.6	92,689	Open	12.1	273
2/28/2025	18:00:00	7.5	1.518	1.7	92,707	Open	11.4	111

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
2/28/2025	18:15:00	7.2	1.533	2.1	92,726	Open	11.6	278
2/28/2025	18:30:00	7.4	1.454	1.1	92,749	Open	11.4	268
2/28/2025	18:45:00	7.4	0.000	1.2	92,750	Open	11.6	268
2/28/2025	19:00:00	7.4	0.000	2.4	92,750	Open	11.8	270
2/28/2025	19:15:00	7.4	0.920	2.3	92,768	Open	11.4	270
2/28/2025	19:30:00	7.5	1.469	2.3	92,790	Open	11.3	268
2/28/2025	19:45:00	7.5	1.457	1.3	92,811	Open	11.3	268
2/28/2025	20:00:00	7.5	1.442	1.6	92,833	Open	11.5	271
2/28/2025	20:15:00	7.5	0.000	1.3	92,850	Open	11.7	271
2/28/2025	20:30:00	7.5	0.000	1.2	92,850	Open	11.9	272
2/28/2025	20:45:00	7.5	0.000	1.3	92,850	Open	12.1	270
2/28/2025	21:00:00	7.5	1.510	1.4	92,860	Open	12.2	270
2/28/2025	21:15:00	7.5	1.491	1.2	92,882	Open	12.4	272
2/28/2025	21:30:00	7.5	1.438	1.4	92,904	Open	12.6	270
2/28/2025	21:45:00	7.5	1.438	1.3	92,923	Open	12.8	270
2/28/2025	22:00:00	7.5	0.000	1.1	92,938	Open	12.9	270
2/28/2025	22:15:00	7.5	1.556	1.1	92,946	Open	13.1	272
2/28/2025	22:30:00	7.5	1.484	1.3	92,969	Open	13.2	272
2/28/2025	22:45:00	7.4	1.037	1.3	92,989	Open	13.2	272
2/28/2025	23:00:00	7.4	1.514	1.3	93,011	Open	13.3	272
2/28/2025	23:15:00	7.3	0.000	1.2	93,029	Open	13.2	112
2/28/2025	23:30:00	7.2	1.435	1.2	93,038	Open	13.3	112
2/28/2025	23:45:00	7.2	1.420	1.3	93,048	Open	13.4	112
3/1/2025	0:00:00	7.2	1.491	1.4	93,069	Open	13.4	111
3/1/2025	0:15:00	6.3	1.359	3.7	93,091	Open	11.3	313
3/1/2025	0:30:00	6.3	0.000	3.9	93,097	Open	11.5	328

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	0:45:00	6.6	1.389	3.4	93,110	Open	11.1	304
3/1/2025	1:00:00	6.4	0.000	3	93,121	Open	11.1	319
3/1/2025	1:15:00	6.4	0.000	2.9	93,122	Open	11.3	319
3/1/2025	1:30:00	6.5	1.529	5.3	93,141	Open	12	304
3/1/2025	1:45:00	6.6	1.423	10	93,164	Open	11.4	305
3/1/2025	2:00:00	6.5	1.480	9.7	93,185	Open	11.6	310
3/1/2025	2:15:00	6.5	0.000	8.8	93,194	Open	11.8	316
3/1/2025	2:30:00	6.5	0.000	9	93,194	Open	12.2	320
3/1/2025	2:45:00	6.5	1.510	7.5	93,214	Open	11.4	113
3/1/2025	3:00:00	6.7	1.469	5.7	93,236	Open	11.5	314
3/1/2025	3:15:00	6.5	1.446	8.7	93,255	Open	11.6	310
3/1/2025	3:30:00	6.5	0.000	11.3	93,273	Open	11.6	307
3/1/2025	3:45:00	6.6	0.000	11.4	93,273	Open	11.9	308
3/1/2025	4:00:00	6.5	1.408	9.8	93,285	Open	11.3	298
3/1/2025	4:15:00	6.6	1.382	10.8	93,304	Open	11.5	297
3/1/2025	4:30:00	6.5	0.000	8.6	93,315	Open	11.4	303
3/1/2025	4:45:00	6.5	1.276	7.6	93,330	Open	11.6	308
3/1/2025	5:00:00	6.5	1.242	7.5	93,349	Open	12	312
3/1/2025	5:15:00	6.5	0.753	7.4	93,362	Open	12.5	315
3/1/2025	5:30:00	6.4	0.216	4.3	93,381	Open	11.9	314
3/1/2025	5:45:00	6.7	1.423	3.4	93,396	Open	11.9	310
3/1/2025	6:00:00	6.6	1.431	2.7	93,417	Open	12.3	300
3/1/2025	6:15:00	6.3	0.000	1	93,430	Open	11.6	311
3/1/2025	6:30:00	6.5	1.563	2.1	93,434	Open	11.5	307
3/1/2025	6:45:00	6.5	1.473	0.5	93,457	Open	11.3	302
3/1/2025	7:00:00	6.5	1.446	0.3	93,478	Open	11.3	302

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	7:15:00	6.8	1.026	6.7	93,499	Open	11.4	287
3/1/2025	7:30:00	6.9	0.299	0.4	93,512	Open	11.3	283
3/1/2025	7:45:00	6.9	1.461	0.3	93,526	Open	11.2	285
3/1/2025	8:00:00	7	1.423	0.4	93,547	Open	11.3	285
3/1/2025	8:15:00	7	0.000	0.5	93,549	Open	11.6	286
3/1/2025	8:30:00	7	0.000	0.9	93,549	Open	11.8	287
3/1/2025	8:45:00	7	0.000	0.9	93,549	Open	12.1	290
3/1/2025	9:00:00	7	0.000	0.9	93,549	Open	12.4	292
3/1/2025	9:15:00	7	0.000	1.2	93,549	Open	12.6	292
3/1/2025	9:30:00	6.9	0.000	1	93,549	Open	13.8	111
3/1/2025	9:45:00	6.9	0.000	0.9	93,549	Open	13.8	112
3/1/2025	10:00:00	6.9	0.000	0.8	93,549	Open	14	112
3/1/2025	10:15:00	7	1.420	1.1	93,564	Open	11.2	290
3/1/2025	10:30:00	7	1.427	1.2	93,583	Open	11.2	283
3/1/2025	10:45:00	7.1	1.404	1.2	93,605	Open	11.2	283
3/1/2025	11:00:00	7.1	0.000	1.2	93,605	Open	11.4	283
3/1/2025	11:15:00	7.2	1.507	0.9	93,626	Open	11.2	279
3/1/2025	11:30:00	7.2	1.522	1	93,646	Open	11.2	276
3/1/2025	11:45:00	7.2	0.000	0.9	93,649	Open	11.3	278
3/1/2025	12:00:00	7.1	1.491	0.9	93,665	Open	11.1	276
3/1/2025	12:15:00	7.2	1.522	0.9	93,687	Open	11.2	277
3/1/2025	12:30:00	7.2	1.488	0.9	93,707	Open	11.5	275
3/1/2025	12:45:00	7.2	1.442	0.7	93,729	Open	11.3	273
3/1/2025	13:00:00	7.3	1.431	0.7	93,751	Open	11.3	268
3/1/2025	13:15:00	7.3	1.438	0.7	93,773	Open	11.4	268
3/1/2025	13:30:00	7.3	0.000	0.6	93,790	Open	11.5	268

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	13:45:00	7.2	0.000	0.6	93,790	Open	11.8	272
3/1/2025	14:00:00	7.2	1.473	0.7	93,801	Open	11.5	273
3/1/2025	14:15:00	7.2	1.495	1	93,822	Open	11.5	270
3/1/2025	14:30:00	7.3	1.446	1.2	93,844	Open	11.4	268
3/1/2025	14:45:00	7.3	1.446	0.7	93,866	Open	11.3	268
3/1/2025	15:00:00	7.3	1.404	0.6	93,887	Open	11.3	268
3/1/2025	15:15:00	7.3	1.385	0.7	93,905	Open	11.6	273
3/1/2025	15:30:00	7.3	1.340	0.7	93,926	Open	11.2	273
3/1/2025	15:45:00	7.3	1.295	0.7	93,946	Open	11.2	273
3/1/2025	16:00:00	7.3	1.291	0.8	93,965	Open	11.3	275
3/1/2025	16:15:00	7.3	0.000	0.6	93,970	Open	11.9	112
3/1/2025	16:30:00	7.2	0.000	77.2	93,974	Open	12	112
3/1/2025	16:45:00	7.2	1.332	0.7	93,985	Open	11.1	280
3/1/2025	17:00:00	7.3	0.984	0.6	94,003	Open	11.3	277
3/1/2025	17:15:00	7.3	0.000	0.7	94,021	Open	11	275
3/1/2025	17:30:00	7.3	1.541	3.9	94,024	Open	11.1	275
3/1/2025	17:45:00	7.3	1.476	0.7	94,046	Open	11	275
3/1/2025	18:00:00	7.3	0.000	0.9	94,060	Open	11.1	274
3/1/2025	18:15:00	7.3	1.476	0.7	94,075	Open	11	275
3/1/2025	18:30:00	7.3	1.397	0.7	94,096	Open	11	275
3/1/2025	18:45:00	7.3	1.370	0.6	94,117	Open	11	275
3/1/2025	19:00:00	7.3	1.431	1	94,134	Open	10.9	278
3/1/2025	19:15:00	7.3	0.000	0.8	94,153	Open	10.9	277
3/1/2025	19:30:00	7.3	0.000	1.1	94,162	Open	10.9	278
3/1/2025	19:45:00	7.3	1.359	1.2	94,164	Open	11.2	274
3/1/2025	20:00:00	7.3	1.026	0.9	94,182	Open	11	276

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/1/2025	20:15:00	7.3	1.446	0.7	94,204	Open	10.8	275
3/1/2025	20:30:00	7.3	1.465	8.6	94,221	Open	11	276
3/1/2025	20:45:00	7.3	1.484	0.2	94,243	Open	11.2	273
3/1/2025	21:00:00	7.4	1.033	0	94,263	Open	11.7	273
3/1/2025	21:15:00	7.4	1.416	0	94,285	Open	11.6	273
3/1/2025	21:30:00	7.4	0.000	0	94,290	Open	11.8	274
3/1/2025	21:45:00	7.3	0.791	0.2	94,305	Open	11	272
3/1/2025	22:00:00	7.3	1.370	0.5	94,319	Open	10.9	272
3/1/2025	22:15:00	7.4	1.503	0.7	94,340	Open	10.9	274
3/1/2025	22:30:00	7.3	1.473	0.9	94,362	Open	11.6	275
3/1/2025	22:45:00	7.3	1.446	0.8	94,384	Open	12.3	275
3/1/2025	23:00:00	7.3	1.389	0.9	94,405	Open	12.8	273
3/1/2025	23:15:00	7.3	1.374	1	94,426	Open	13.2	273
3/1/2025	23:30:00	7.3	1.351	0.9	94,447	Open	13.5	275
3/1/2025	23:45:00	7.3	1.336	1.1	94,467	Open	13.6	276
3/2/2025	0:00:00	7.4	1.317	2.1	94,478	Open	10.7	278
3/2/2025	0:15:00	7.4	0.000	3.7	94,492	Open	11.1	278
3/2/2025	0:30:00	7.4	0.000	3.5	94,492	Open	11.3	278
3/2/2025	0:45:00	7.4	1.484	6.5	94,503	Open	11.4	278
3/2/2025	1:00:00	7.3	1.454	5	94,525	Open	11.7	276
3/2/2025	1:15:00	7.5	0.000	2	94,542	Open	10.6	272
3/2/2025	1:30:00	7.4	0.000	2.6	94,544	Open	10.9	275
3/2/2025	1:45:00	7.5	1.385	1.4	94,563	Open	10.8	276
3/2/2025	2:00:00	7.5	1.370	1	94,584	Open	11	272
3/2/2025	2:15:00	7.5	0.000	1	94,600	Open	11.4	272
3/2/2025	2:30:00	7.4	1.363	1.5	94,602	Open	12.5	272

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	2:45:00	7.4	1.382	2	94,623	Open	12.2	271
3/2/2025	3:00:00	7.3	1.348	1.9	94,636	Open	12.8	273
3/2/2025	3:15:00	7.4	1.397	1.3	94,657	Open	11.6	273
3/2/2025	3:30:00	7.4	1.397	1.5	94,678	Open	12	272
3/2/2025	3:45:00	7.5	1.484	4.4	94,696	Open	11.6	273
3/2/2025	4:00:00	7.5	1.495	2.9	94,715	Open	12	274
3/2/2025	4:15:00	7.5	1.446	2.5	94,737	Open	12.4	273
3/2/2025	4:30:00	7.5	1.423	2.4	94,759	Open	12.7	273
3/2/2025	4:45:00	7.5	1.438	2.7	94,763	Open	13.2	273
3/2/2025	5:00:00	7.5	1.420	3.5	94,785	Open	11.8	277
3/2/2025	5:15:00	7.5	1.420	2.2	94,806	Open	12.2	277
3/2/2025	5:30:00	7.5	1.401	2.4	94,825	Open	12.5	277
3/2/2025	5:45:00	7.5	1.344	2.5	94,845	Open	12.7	280
3/2/2025	6:00:00	7.5	1.295	2.3	94,864	Open	12.8	280
3/2/2025	6:15:00	7.5	0.874	2.4	94,882	Open	12.7	278
3/2/2025	6:30:00	7.9	1.234	1.3	94,898	Open	10.9	275
3/2/2025	6:45:00	7	1.139	1.1	94,916	Open	10.7	301
3/2/2025	7:00:00	6.9	0.000	1.4	94,918	Open	10.8	320
3/2/2025	7:15:00	6.9	0.810	2.8	94,921	Open	10.8	329
3/2/2025	7:30:00	6.7	1.298	1.2	94,936	Open	10.4	327
3/2/2025	7:45:00	6.6	1.211	1	94,955	Open	10.6	327
3/2/2025	8:00:00	6.5	0.659	2.6	94,968	Open	10.4	330
3/2/2025	8:15:00	6.6	1.355	1.1	94,983	Open	10.4	319
3/2/2025	8:30:00	6.9	1.336	0.9	95,003	Open	10.4	307
3/2/2025	8:45:00	7	1.912	1.2	95,023	Open	10.4	299
3/2/2025	9:00:00	7.4	1.325	4.5	95,048	Open	10.3	292

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Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	9:15:00	7.5	1.991	2.7	95,077	Open	10.3	286
3/2/2025	9:30:00	7.5	0.322	4.2	95,104	Open	10.3	287
3/2/2025	9:45:00	7.5	0.000	2.7	95,105	Open	10.4	287
3/2/2025	10:00:00	7.4	0.924	4.8	95,106	Open	10.6	287
3/2/2025	10:15:00	7.1	1.314	1.2	95,125	Open	10.4	284
3/2/2025	10:30:00	7.2	1.317	1.1	95,145	Open	10.5	281
3/2/2025	10:45:00	7.4	1.507	4.5	95,165	Open	10.5	279
3/2/2025	11:00:00	7.6	1.480	2.3	95,188	Open	10.5	276
3/2/2025	11:15:00	7.7	0.095	12.4	95,197	Open	10.5	278
3/2/2025	11:30:00	7.2	0.000	2.1	95,201	Open	10.6	286
3/2/2025	11:45:00	7.2	1.287	1.2	95,216	Open	10.6	279
3/2/2025	12:00:00	7.5	1.745	2.5	95,241	Open	10.6	276
3/2/2025	12:15:00	7.4	1.726	3.7	95,267	Open	10.7	281
3/2/2025	12:45:00	7.6	0.000	5.5	95,296	Open	10.8	286
3/2/2025	13:00:00	7	1.866	4.9	95,312	Open	10.7	298
3/2/2025	13:15:00	7.3	1.832	8.5	95,340	Open	10.7	286
3/2/2025	13:30:00	7.8	0.273	10.8	95,359	Open	10.7	283
3/2/2025	13:45:00	7.2	1.219	2.4	95,376	Open	10.8	283
3/2/2025	14:00:00	7.2	1.181	2.9	95,394	Open	10.8	281
3/2/2025	14:15:00	7.3	1.162	2.6	95,412	Open	10.8	281
3/2/2025	14:30:00	7.3	0.344	2.3	95,422	Open	11	279
3/2/2025	15:15:00	7.3	1.268	3.4	95,440	Open	10.9	278
3/2/2025	15:30:00	7.3	1.291	3.9	95,459	Open	10.9	274
3/2/2025	15:45:00	7.3	1.230	4.9	95,478	Open	11	274
3/2/2025	16:30:00	7.4	1.370	2.3	95,508	Open	11	276
3/2/2025	16:45:00	7.4	1.336	2.7	95,528	Open	11	276

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Data Date Range	**February 24, 2025 to March 2, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **March 7, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
3/2/2025	17:00:00	7.5	1.329	2.5	95,548	Open	11.1	277
3/2/2025	17:15:00	7.6	1.268	3.2	95,567	Open	11	277
3/2/2025	17:45:00	7.4	1.359	2.8	95,574	Open	11.2	280
3/2/2025	18:00:00	7.7	1.298	3.1	95,594	Open	11	277
3/2/2025	18:15:00	7.7	1.276	3.5	95,614	Open	11	276
3/2/2025	18:30:00	8	1.139	3	95,626	Open	11.2	276
3/2/2025	18:45:00	7.6	1.332	1.2	95,646	Open	11.1	279
3/2/2025	19:00:00	7.6	1.325	1.3	95,666	Open	11.4	279
3/2/2025	19:15:00	7.6	1.268	1.5	95,685	Open	11.7	276
3/2/2025	19:30:00	7.5	1.336	1.3	95,701	Open	11.9	276
3/2/2025	20:15:00	7.5	0.000	1.9	95,723	Open	10.9	274
3/2/2025	20:30:00	7.5	0.337	1.4	95,741	Open	11.2	278
3/2/2025	20:45:00	7.4	0.000	1.6	95,742	Open	11.7	276
3/2/2025	21:00:00	7.6	1.435	4	95,747	Open	11.2	274
3/2/2025	21:15:00	7	1.336	0.6	95,768	Open	11.2	284
3/2/2025	21:30:00	7.3	1.435	0.7	95,789	Open	11.4	283
3/2/2025	21:45:00	7.3	1.503	0.8	95,810	Open	11.7	281
3/2/2025	22:00:00	7.5	0.939	0.2	95,831	Open	14.1	115
3/2/2025	22:15:00	7.5	1.302	2.7	95,850	Open	14.9	114
3/2/2025	22:30:00	7.4	1.321	10.5	95,868	Open	15.4	113
3/2/2025	22:45:00	7.4	0.238	9	95,887	Open	15.6	113
3/2/2025	23:00:00	7.4	0.000	0.5	95,888	Open	16	114
3/2/2025	23:15:00	7.4	0.000	0.6	95,893	Open	16.4	114
3/2/2025	23:30:00	7.4	0.874	0.5	95,897	Open	17.7	114
3/2/2025	23:45:00	7.1	1.200	0.4	95,911	Open	12	307

Appendix B: Photos

Photo 1: No visible sheen observed in the WTP water, February 24

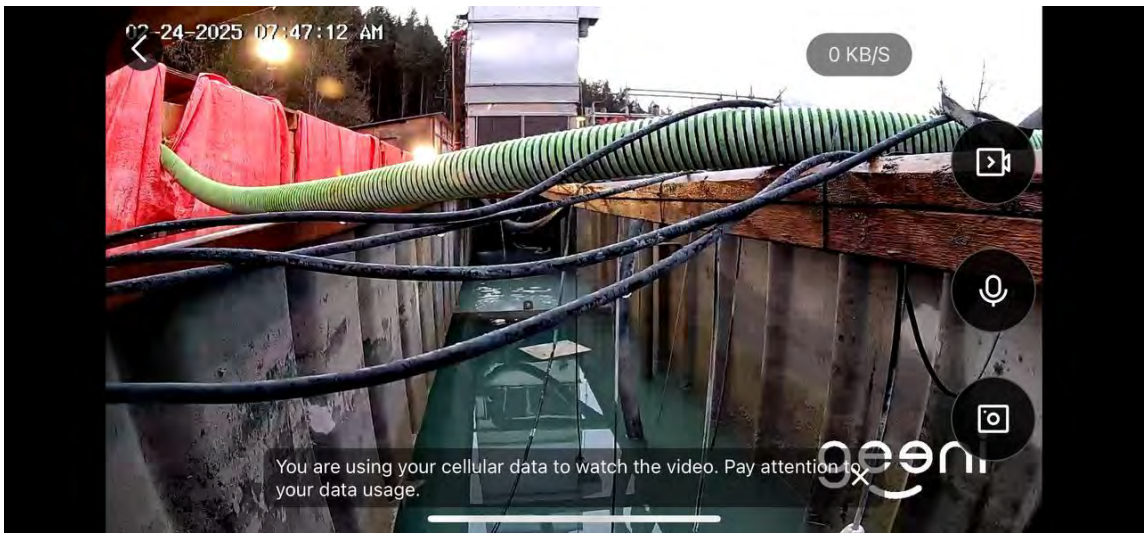
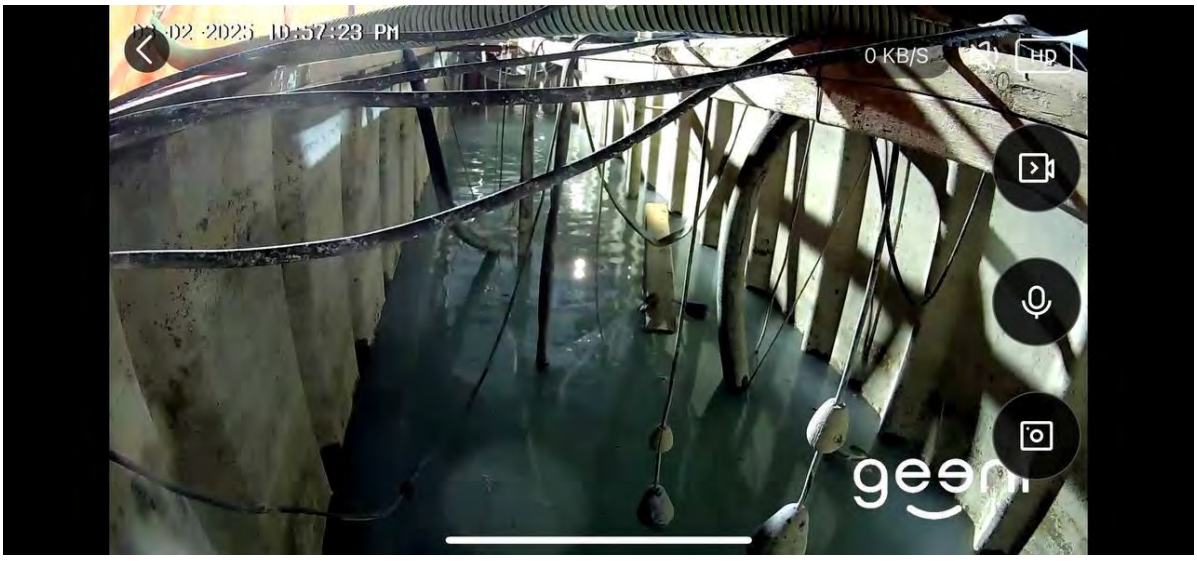


Photo 2: No visible sheen observed in the WTP water, February 25

Photo 3: No visible sheen observed in the WTP water, February 26

Photo 4: No visible sheen observed in the WTP water, February 27

Photo 5: No visible sheen observed in the WTP water, February 28

Photo 6: No visible sheen observed in the WTP water, March 2


FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2025-2-25-Renkers-33B13

Project Component:	Tunnel	**Site Name:**	WLNG Treatment Discharge
Inspection Date:	02/25/2025	**Location:**	WLNG
Triton QP:	Stephanie Renkers	**Latitude/Longitude:**	49.669732 -123.249002
Temperature(c):	Low 3 High 8	**Permit:**	PE 110136
Weather Conditions:	Light Rain	**Ground Conditions:**	Wet

Observations

Time: 09:45:00 **Flow Volume (visual):** N/A

Notes:

Odour Detected?:	No	**Notes:**	
Unusual Colour?	No	**Notes:**	
Unusual Observations?	No	**Notes:**	
Sheen on Water?	No	**Notes:**	

Samples Collected - Parameters

Total Metals + Mercury	Yes	**General Parameters (Alkalinity)**	Yes	**Other Sample:**	
Dissolved Metals + Mercury	Yes	**Total Sulfide, Unionized Sulfide**	Yes		
TSS	Yes	**Anions**	Yes		
TDS	Yes	**Total Trivalent Chromium**	Yes	**QA Samples:**	Yes
Nutrients	Yes	**VOC/VPH**	Yes		
DOC	Yes	**EPH, PAH, LEPH/HEPH**	Yes		
		Trout LC50	Yes		

Logger Maintenance

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

Describe Logger Maintenance

Photos

Photo: 1

Location: WLNG EOP

Description: End of the pipe hose

Photo: 2

Location: WLNG EOP

Description: Pipe source of treated water

Photos

Photo: 3
Location: WLNG EOP
Description: Lab COC

Photo: 4
Location: WLNG Trip Blank
Description: Lab COC

Photos

Photo: 5

Location: LC50 toxicity test

Description: Lab COC

Sign Off

Report Prepared By:	Stephanie Renkers	**Report Reviewed:**	Yes
Report Reviewer:	Farshad Shafiei	**Professional(s) of Record:**	N/A
Name:			
Designation:			
Designation Number:			

Appendix D: Woodfibre Site Receiving Environment Documentation

Woodfibre Site Receiving Environment Sample Analysis

TRITON	Sample ID	Reviewed and signed off by:			Fanshed Shallal Ph.D., RSP Bio.	EAS US1 (Upstream)	EAS DS 1 (Downstream)	Sample or value notes	BCWQ FAL - Short Term	BCWQ FAL - Long Term	BCWQ MAL - Short Term	BCWQ MAL - Long Term
	LAB ID					YA25A4036-001	YA25A4036-002					
	Date Sampled					25-Feb-2025	25-Feb-2025					
	Time Sampled					10:42	10:18					
Analyte	Units	FAL-ST [1,2]	FAL-LT [1,2]	MAL-ST [1]	MAL-LT [1,2]	Water	Water					
In Situ Parameters						N/A	N/A		Guideline notes			
pH (field)	pH units	6.5-9.0	6.5-9.0	7.0-8.7	7.0-8.7	7.42	7.59		If natural pH < 6.5, no statistically significant decrease from background. No restriction in increase except in areas with unique flora or fauna. Unrestricted change permitted within range of 6.5 to 9.0. If natural pH > 9.0, no statistically significant increase from background. Refer to BC Water Quality Guidelines for more information.		Unrestricted change within this range (for protection of mollusc embryo development).	
Temperature (field)	°C	Short-term daily temperature guideline is 19°C for streams with unknown fish distribution Max +/- from BKG 1°C [3]	-	Short-term daily temperature guideline is 19°C for streams with unknown fish distribution Max +/- from BKG 1°C [3]	-	6.5	7.3		Guideline is species-dependent. Short-term daily temperature guideline is 19°C for streams with unknown fish distribution. Refer to footnote 4 for background temperature range for East Creek. Refer to BC Water Quality Guidelines for more information Hourly rate of change not to exceed 1°C Calculation: US value +/- 1 = guideline range		Guideline for marine waters are based on natural ambient conditions. Max and min. 1°C change from natural conditions. Human activities should not cause the temperature of the site should not be altered in amplitude or frequency by human activities. Max rate of any human-induced temperature change not to exceed 0.5°C hourly. Insens with unknown fish distribution. Refer to footnote 4 for background temperature range for East Creek. Calculation: US value +/- 1 = guideline range	
Conductivity (field)	µS/cm	-	-	-	-	22	66					
Turbidity (field)	NTU	Varies with background, see note Guideline = 8.6	Varies with background, see note Guideline = 4.28 5-week discrete sampling average = 2.64 (DS)	Varies with background, see note Guideline = 8.6	Varies with background, see note Guideline = 4.28 5-week discrete sampling average = 2.64 (DS)	0.56	1.43		Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value = 8 + DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value = 5 + DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value = (US value*0.1) + DS guideline	Change from background of 2 NTU at any one time for 30 days in clear flows. Note that a rolling average of US values over a 30-day period is required to properly calculate this guideline. Guideline calculated in this spreadsheet using US concentration at the time of sampling.	Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value = 8 + DS guideline Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Calculation: US value = 5 + DS guideline Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters. Calculation: US value = (US value*0.1) + DS guideline	Change from background of 2 NTU at any one time for 30 days in clear flows. Note that a rolling average of US values over a 30-day period is required to properly calculate this guideline. Guideline calculated in this spreadsheet using US concentration at the time of sampling.
Dissolved Oxygen (field)	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	11.16	11.26		Buried embryo/alevin minimum 9 mg/L, all other life stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 9 mg/L, all other life stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.
General Parameters												
Hardness (as CaCO3) (total)	mg/L	-	-	-	-	6.73	23.9					
Total Dissolved Solids	mg/L	-	-	-	-	26	52					
Total Suspended Solids	mg/L	Varies with background, see note Guideline = 28.0	Varies with background, see note Guideline = 8.74 5-week discrete sampling average = 4.06 (DS)	Varies with background, see note Guideline = 28.0	Varies with background, see note Guideline = 8.74 5-week discrete sampling average = 4.06 (DS)	< 3.0	< 3.0		Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value = (US value*0.1) + DS guideline	Change from background of 5 mg/L @ one time for a duration of 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. Guideline calculated in this spreadsheet using US concentration at the time of sampling.	Change from background of 25 mg/L at any one time for duration of 24 h in all waters during clear flows or in clear waters. Calculation: US value + 25 = DS guideline Change from background of 10 mg/L at any one time when background 25-100 mg/L during high flows or turbid waters. Calculation: US value + 10 = DS guideline Change from background of 10% when background is > 100 mg/L at any time during high flows or turbid waters. Calculation: US value = (US value*0.1) + DS guideline	Change from background of 5 mg/L @ one time for a duration of 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. Guideline calculated in this spreadsheet using US concentration at the time of sampling.
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	2.83	3.3			Long-term (30-day) median within 20% of background median [1]		
Total Alkalinity (CaCO3)	mg/L	-	Categorical	-	-	5.2	22.4			Guideline is for alkalinity (as CaCO3) and categorizes the sensitivity of a water body to acid inputs. Alkalinity < 10 mg/L is considered highly sensitive to acid inputs; 10 - 20 mg/L is considered moderately sensitive to acid inputs; > 20 mg/L is considered low sensitivity.		
Total Sulfide (as S)	mg/L	-	-	-	-	< 0.0015	< 0.0015					
Total Sulfide (un-ionized as H2S)	mg/L	-	0.002	-	-	< 0.0015	< 0.0015			Working guideline		
Total Sulfide (as H2S)	mg/L	-	-	-	-	< 0.0016	< 0.0016					
Anions and Nutrients												
Ammonia	mg/L ammonia-N	Varies with pH and temperature. See note. Guideline = 14.8	Varies with pH and temperature. See note. Guideline = 1.97	Varies with pH and temperature. See note. Guideline = 110	Varies with pH, temperature and salinity. See note. Guideline = 25	< 0.0050	0.0062		Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D in BC WQG for guideline values.	Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27C in BC WQG for guideline values.	Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 27F in BC WQG for guideline values.	Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 27E in BC WQG for guideline values.
Bromide	mg/L	-	-	-	-	< 0.050	< 0.050					
Chloride	mg/L	600	150	< 110% of background	< 90% of background	0.6	3.04				Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.	Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
Fluoride	mg/L	Varies with hardness Guideline = 0.249	-	1.5	-	0.021	0.044		Guideline has interim status. Guideline is calculated with the following equation: Guideline = [- 4.1 *3 + 10.67 (ln(3) (hardness) ^ 0.24			
Nitrate (as N)	mg/L	32.8	3	-	3.7	0.0279	< 0.0050					
Nitrite (as N)	mg/L	Varies with chloride. Table 27B, see note. Guideline = 0.06	Varies with chloride. Table 27B, see note. Guideline = 0.02	-	-	< 0.0010	< 0.0010		Varies with chloride. Refer to Table 27B in BC WQG for guideline values.	Varies with chloride. Refer to Table 27B in BC WQG for guideline values.		
Total Nitrogen	mg/L	-	-	-	-	0.106	0.145					
Total Phosphorous	mg/L	-	0.005 to 0.015	-	-	0.0565	0.0382			Guideline is for lakes, refer to BCWQ guideline for nutrients and algae for more information. Guideline does not apply to site.		
Sulfate (as SO4)	mg/L	-	Varies with hardness. See note. Guideline = 128	-	-	2.22	3.71			Guidelines for hardness ranges below: Hardness 0 - 30: 128 Hardness 31 - 75: 218 Hardness 76 - 180: 309 Hardness 181 - 250: 429		
Total Metals												
Aluminum (Al)-Total	mg/L	-	Varies with pH, DOC, hardness Guideline = 0.100 5-week field average = 0.200 (US), 0.281 (DS)	-	-	0.147	0.432			Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = ([EXP((0.945 * LN(DOC)) + (2.255 * LN(hardness)) + (1.666 * pH) + (-0.284 * (LN(hardness)) ^ pH)) -6.868)/(0.1000). If hardness or DOC is below the hardness range, the minimum hardness or DOC will be applied in the calculation.		
Antimony (Sb)-Total	mg/L	0.26	0.074	-	-	< 0.00010	< 0.00010					
Arsenic (As)-Total	mg/L	-	0.005	-	0.0125	0.00025	0.00041					Interim guideline status
Barium (Ba)-Total	mg/L	-	1	-	-	0.00387	0.00704			Working guideline status		
Beryllium (Be)-Total	mg/L	-	0.00013	-	0.100	< 0.000100	< 0.000100			Working guideline status		Working guideline status
Bismuth (Bi)-Total	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Boron (B)-Total	mg/L	-	1.2	-	1.2	< 0.010	< 0.010					
Cadmium (Cd)-Total	mg/L	-	-	-	0.00012	0.000024	0.000028					Working guideline status
Calcium (Ca)-Total	mg/L	-	-	-	-	2.16	8.79					
Chromium (Cr) – Total	mg/L	-	-	-	-	< 0.00010	0.000024					
Chromium (Cr(III))-Total	mg/L	-	-	-	-	< 0.00005	0.00045					
Chromium (Cr(VI))-Total	mg/L	-	0.0089	-	0.056	< 0.00050	< 0.00050			Working guideline status		Working guideline status
Cobalt (Co)-Total	mg/L	-	0.0025	-	0.0015	< 0.00005	< 0.00005			Working guideline status		Working guideline status
Copper (Cu)-Total	mg/L	0.11	0.004	-	0.003	< 0.00010	< 0.00010					
Iron (Fe)-Total	mg/L	1	-	-	0.003 5-week field average = 0.001296 (US), 0.001058 (DS)	0.053	0.104					
Lead (Pb)-Total	mg/L	-	-	-	0.14	0.002 5-week field average = 0.000104(US), 0.000099 (DS)	< 0.000050	0.000097	Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.003 where hardness 0mg/L. Guideline uses equation EXP(1.273*LN(hardness)-1.460) where hardness is 8-360 mg/L. Lowest value for guideline is 0.002 mg/L.	Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline equation EXP(1.273*LN(hardness)-4.704) applies to samples with hardness 9-360 mg/L.		
Lithium (Li)-Total	mg/L	-	-	-	-	< 0.0010	< 0.0010					
Magnesium (Mg)-Total	mg/L	-	-	-	-	0.325	0.516					
Manganese (Mn)-Total	mg/L	Varies with hardness Guideline = 0.82	Varies with hardness Guideline = 0.77	-	-	0.00217	0.00396		Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = (0.0044 * hardness + 0.605) Guideline applies to samples with hardness 25-259 mg/L. Lowest value for guideline is 0.77 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 = (0.01102 * hardness + 0.134) Guideline applies to samples with hardness 37-430 mg/L. Lowest value for guideline is 0.81 mg/L. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.		
Mercury (Hg)-Total	mg/L	-	Varies with methyl mercury Guideline = N/A	-	-	< 0.00000050	< 0.00000050			When Methyl is 0.5% of total Hg, guideline is equal to 0.02 mg/L Guideline = 0.12(Methg/totalHg). When Methg is 0.5% of totalHg, guideline is equal to 0.02 mg/L		
Molybdenum (Mo)-Total	mg/L	46	7.6	-	-	0.000421	0.00387					
Nickel (Ni)-Total	mg/L	-	-	-	0.0083	< 0.00050	< 0.00050			Working guideline status. Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information. Hardness 0 - 60: 0.025 Hardness = 60 ≤ 180: Guideline = (EXP((0.76 * (LN(hardness)) + 1.06))/1000) Hardness ≥ 180: 0.15		Working guideline status
Potassium (K)-Total	mg/L	-	-	-	-	0.361	0.561					
Rubidium (Rb)-Total	mg/L	-	-	-	-	0.00033	0.00123					
Selenium (Se)-Total	mg/L	-	0.002	-	0.002	< 0.00050	0.000056			Guideline for freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, invertebrate and fish tissue. Refer to BC Water Quality Guidelines for more information on guidelines and sampling guidance.		Guideline for marine aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, invertebrate and fish tissue. Refer to BC Water Quality Guidelines for more information on guidelines and sampling guidance.
Silicon (Si)-Total	mg/L	-	-	-	-	3.05	3.97					
Silver (Ag)-Total	mg/L	Varies with hardness, see note Guideline = 0.0001	Varies with hardness, see note Guideline = 0.00005	0.003	0.0015	< 0.000010	< 0.000010		Varies with hardness Guideline ranges: Hardness ≤ 100: 0.0001 Hardness > 100: 0.0003	Varies with hardness Guideline ranges: Hardness ≤ 100: 0.00005 Hardness > 100: 0.0001		Guideline applies to open coast and estuaries Guideline is applicable to the EQP site.
Sodium (Na)-Total	mg/L	-	-	-	-	1.19	2.28					
Strontium (Sr)-Total	mg/L	-	-	-	-	0.00973	0.0215					
Sulfur (S)-Total	mg/L	-	-	-	-	< 0.50	1.17					
Tellurium (Te)-Total	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Thallium (Tl)-Total	mg/L	-	0.00003 5-week field average = +0.000010 (US), +0.000010 (DS)	-	-	< 0.000010	< 0.000010			30-day average, site-specific objective for the lower Columbia River, BC. Guideline is for reference only and does not apply to the EQP site.		
Thorium (Th)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Tin (Sn)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Titanium (Ti)-Total	mg/L	-	-	-	-	0.00185	0.00398					
Tungsten (W)-Total	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Uranium (U)-Total	mg/L	0.0168	0.0075	-	-	0.000178	0.000158			Working guideline status		
Vanadium (V)-Total	mg/L	-	0.06	-	0.005	< 0.00050	0.00067					Working guideline status
Zinc (Zn)-Total	mg/L	-	-	0.055	0.010 5-week field average = 0.0037 (US), 0.0016 (DS)	< 0.0030	0.0161					
Zirconium (Zr)-Total	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Dissolved Metals												
Aluminum (Al)-Dissolved	mg/L	-	-	-	-	< 0.11	< 0.141					
Antimony (Sb)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Arsenic (As)-Dissolved	mg/L	-	-	-	-	0.00025	0.00041					
Barium (Ba)-Dissolved	mg/L	-	-	-	-	0.00025	0.00092					
Beryllium (Be)-Dissolved	mg/L	-	-	-	-	< 0.000100	< 0.000100					
Bismuth (Bi)-Dissolved	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Boron (B)-Dissolved	mg/L	-	-	-	-	< 0.010	< 0.010					
Cadmium (Cd)-Dissolved	mg/L	Varies with hardness, see note Guideline = 0.000038	Varies with hardness, see note Guideline = 0.000034	-	-	0.0000064	0.0000058		Guideline is hardness dependent. Guideline is applicable to water hardness between 7.0 and 453 mg/L. Guideline is calculated with the following formula: Guideline = (EXP(0.7409 * LN(hardness) - 4.719))/1000) Lowest value for guideline is 0.000018 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 hardness between 3.4 and 285 mg/L. Guideline is calculated with the following formula: Guideline = (EXP(1.0166 * LN(hardness) - 3.924))/1000) Lowest value for guideline is 0.000034. If hardness is below the hardness range, the minimum hardness will be applied in the calculation.		
Calcium (Ca)-Dissolved	mg/L	-	Categorical, see note	-	-	1.96	2.77			Guideline categorizes the sensitivity of a water body to acid inputs (i.e. buffering capacity). Standard is 4 mg/L dissolved Ca for the most sensitive waterbodies,5 - 8 mg/L for waterbodies with moderate sensitivity to acid inputs. Waterbodies with dissolved calcium > 8mg/L are considered to have low sensitivity to acid inputs.		
Cesium (Cs)-Dissolved	mg/L	-	-	-	-	< 0.000010	< 0.000010					
Chromium (Cr)-Dissolved	mg/L	-	-	-	-	< 0.00050	< 0.00050					
Cobalt (Co)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Copper (Cu)-Dissolved	mg/L	Guideline varies with other parameters, see note Guideline = 0.0026	Guideline varies with other parameters, see note Guideline = 0.0003 5-week field average = 0.00050 (US), 0.00073 (DS)	-	-	0.00098	0.00086		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date		
Iron (Fe)-Dissolved	mg/L	0.35	-	-	-	0.022	0.018					
Lead (Pb)-Dissolved	mg/L	-	Guideline varies with DOC and hardness Guideline: 0.00195 5-week field average = +0.000050 (US), +0.000050 (DS)	-	-	< 0.000050	< 0.000050			Guideline varies with DOC and hardness, refer to BC Water Quality Guidelines for more information. Guideline uses equation (EXP((1.51*LN(DOC))+(0.214*LN(Hardness))+0.4354))/(31000 where DOC range is 0.5-31.5 mg/L and hardness range is 4.7-511 mg/L		
Lithium (Li)-Dissolved	mg/L	-	-	-	-	< 0.0010	< 0.0010					
Magnesium (Mg)-Dissolved	mg/L	-	-	-	-	0.3	0.501					
Manganese (Mn)-Dissolved	mg/L	-	-	-	-	0.00081	0.00096					
Mercury (Hg)-Dissolved	mg/L	-	-	-	-	< 0.000050	< 0.000050					
Molybdenum (Mo)-Dissolved	mg/L	-	-	-	-	0.000395	0.000829					
Nickel (Ni)-Dissolved	mg/L	Guideline varies with pH, temperature, DOC, and hardness Guideline: 0.0259	Guideline varies with pH, temperature, DOC, and hardness Guideline: 0.00134 5-week field average = 0.00056 (US), 0.00053 (DS)	-	-	< 0.00050	< 0.00050		Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date	Guideline varies with other parameters and is calculated using BC BLM software. Simplified model: Temperature, pH, DOC and hardness Detailed model: Temperature, pH, DOC, humic acid content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, and alkalinity Guideline calculated using values for parameters above taken at the specific site on each sampling date		
Phosphorus (P)-Dissolved	mg/L	-	-	-	-	< 0.050	< 0.050					
Rubidium (Rb)-Dissolved	mg/L	-	-	-	-	0.00029	0.00041					
Selenium (Se)-Dissolved	mg/L	-	-	-	-	< 0.00025	< 0.00025					
Silicon (Si)-Dissolved	mg/L	-	-	-	-	3.09	3.11					
Silver (Ag)-Dissolved	mg/L	-	-	-	-	< 0.000010	< 0.000010					
Sodium (Na)-Dissolved	mg/L	-	-	-	-	1.16	1.26					
Strontium (Sr)-Dissolved	mg/L	-	-	-	-	0.00939	0.0152					
Sulfur (S)-Dissolved	mg/L	-	-	-	-	< 0.50	< 0.50					
Tellurium (Te)-Dissolved	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Thallium (Tl)-Dissolved	mg/L	-	-	-	-	< 0.000010	< 0.000010					
Thorium (Th)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Tin (Sn)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Titanium (Ti)-Dissolved	mg/L	-	-	-	-	0.00045	0.00034					
Tungsten (W)-Dissolved	mg/L	-	-	-	-	< 0.00010	< 0.00010					
Uranium (U)-Dissolved	mg/L	-	-	-	-	0.000153	0.000295					
Vanadium (V)-Dissolved	mg/L	-	-	-	-	< 0.00050	< 0.00050					
Zinc (Zn)-Dissolved	mg/L	Varies with DOC and hardness Guideline = 0.010	Varies with pH, DOC, hardness Guideline = 0.003748 5-week field average = 0.00235(US), 0.0035 (DS)	-	-	0.0015	0.0021		Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = ([EXP((0.833 * (LN(Hardness)) + (0.24 * (LN(DOC)) + 2.26))/1000) If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following formula: Guideline = ([EXP((0.974 * (LN(Hardness)) - (0.870 * pH) + (0.399 * (LN(DOC)) + 3.780))/1000) Guideline only applies to water with pH between 6.5 and 8.13, DOC between 0.3 and 22.9 mg/L, wmm hardness between 23.4 and 369 mg/L. If hardness or DOC is below the hardness or DOC range, the minimum hardness or DOC will be applied in the calculation.		
Zirconium (Zr)-Dissolved	mg/L	-	-	-	-	< 0.00020	< 0.00020					
Applied Guideline:		**British Columbia Approved and Working Water Quality Guidelines (NOV 2023) for Freshwater Aquatic Life (FAL) & Marine Aquatic Life (MAL)** Short-Term (ST) & Long-Term (LT)										

[1]BC MOECCS. 2023. BC Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from
www.env.gov.bc.ca/wat/wq/wq_guidelines.pdf (pg.xx-yy)

[2]BC MOECCS. 2021. BC Working Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from
for_env_working_water_quality_guidelines.pdf (gov.bc.ca)

[3]Note that long-term guidelines apply to averaged data to account for chronic impacts to aquatic life. Ideally, five samples collected at evenly spaced intervals over 30 days is considered to be the minimum number needed to calculate the long-term average of any parameter, though this may vary by parameter and site conditions. Long-term guidelines applied here are for reference only and may not indicate chronic impacts to aquatic life if exceedances occur in the short term.

[4]Background temperature ranges: Dec-Feb: 0.3-6.0C; Mar-Apr: 3.0-10.2C; May-June: 6.8-15.1C; July-present: 12.9-18.2C
Reference: AquaTROLL In-Situ Data Logger - Background water temperatures collected from Dec.-present
For guidelines dependent on other parameters, when hardness, pH or DOC are below the range stated in the guideline, the lowest value in the range is used to calculate the guideline.

Parameters Used to Calculate Guidelines

Analyte	Units	Measurement method	Values	
			EAS US1 (Upstream)	EAS DS 1 (Downstream)
pH (field)	pH units	Field pH taken using handheld meters during sampling used in calculations	7.42	7.59
Temperature (field)	°C	Field temperature taken using handheld meters during sampling used in calculations	6.5	7.3
Turbidity (field)	NTU	Field turbidity taken using handheld meters during sampling used in calculations	0.56	1.43
Hardness (as CaCO3) (total)	mg/L	Laboratory tested total hardness taken at each respective sample site on the day of sampling used in guideline calculations	6.73	23.9
Dissolved Organic Carbon (DOC)	mg/L	Laboratory tested dissolved organic carbon tested at the lab used in guideline calculations	2.83	3.3
Total Alkalinity (CaCO3)	mg/L	Laboratory tested total alkalinity used in calculations	5.2	22.4
Chloride	mg/L	Laboratory tested chloride taken at each respective sample site on the day of sampling used in guideline calculations	0.6	3.04

Woodfibre Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

Work Order	:	**VA25A4036**		
Client	:	**Triton Environmental Consultants Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact	:	Farshad Shafiei	Account Manager	: Can Dang
Address	:	Suite 1730, 1111 West Georgia St Vancouver British Columbia Canada V6E 4M3	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	:	----	Telephone	: +1 604 253 4188
Project	:	11964	Date Samples Received	: 25-Feb-2025 14:00
PO	:	11964-Task 20-Phase 3C-4C	Date Analysis Commenced	: 26-Feb-2025
C-O-C number	:	----	Issue Date	: 05-Mar-2025 15:30
Sampler	:	----		
Site	:	Water Analysis		
Quote number	:	VA25-TRIT100-001		
No. of samples received	:	2		
No. of samples analysed	:	2		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Ilnaz Badbezanchi	Supervisor - Metals Prep	Metals, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
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Paolo Obillo	Account Manager Assistant	Administration, Burnaby, British Columbia
Tracy Harley	Supervisor - Water Quality Instrumentation	Inorganics, Burnaby, British Columbia

General Comments

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

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

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

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

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

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

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

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
HTDC	Hold time exceeded for dilution or re-analysis. Reported results are consistent with initial results (tested within hold time), and are valid and defensible.
RRV	Reported result verified by repeat analysis.

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
						VA25A4036-001	VA25A4036-002	----	----	----
						Result	Result	----	----	----
Field Tests										
Conductivity, field	----	EF001/VA	0.10	µS/cm		22.000	66.000	----	----	----
pH, field	----	EF001/VA	0.10	pH units		7.42	7.59	----	----	----
Temperature, field	----	EF001/VA	0.10	°C		6.50	7.30	----	----	----
Physical Tests										
Hardness (as CaCO3), dissolved	----	EC100/VA	0.60	mg/L		6.13	8.16	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L		6.73	23.9	----	----	----
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L		28	52	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3.0	mg/L		<3.0	<3.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/VA	2.0	mg/L		5.2	22.4	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L		<0.0050	0.0062	----	----	----
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		0.60	3.04	----	----	----
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L		0.021	0.044	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/VA	0.0050	mg/L		0.0379	<0.0050	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/VA	0.0010	mg/L		<0.0010	<0.0010 HTDC	----	----	----
Nitrogen, total	7727-37-9	E366/VA	0.030	mg/L		0.106	0.145	----	----	----
Phosphorus, total	7723-14-0	E372-U/VA	0.0020	mg/L		0.0565	0.0382	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L		2.22	3.71 RRV	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/VA	0.50	mg/L		2.83	3.30	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
						VA25A4036-001	VA25A4036-002	----	----	----
						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		0.147	0.432	----	----	----
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		0.00025	0.00041	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L		0.00267	0.00554	----	----	----
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		0.0000083	0.0000102	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L		2.16	8.74	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L		<0.000010	0.000024	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L		<0.00050	0.00085	----	----	----
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		0.00122	0.00112	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L		0.053	0.104	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L		<0.000050	0.000087	----	----	----
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		0.325	0.516	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
						VA25A4036-001	VA25A4036-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		0.00217	0.00396	----	----	----
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		0.000421	0.00397	----	----	----
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		0.065	0.050	----	----	----
Potassium, total	7440-09-7	E420/VA	0.050	mg/L		0.301	0.561	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L		0.00033	0.00123	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		<0.000050	0.000056	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		3.05	3.97	----	----	----
Silver, total	7440-22-4	E420/VA	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Sodium, total	7440-23-5	E420/VA	0.050	mg/L		1.19	2.28	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		0.00973	0.0215	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		<0.50	1.17	----	----	----
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		0.00193	0.00398	----	----	----
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		0.000176	0.00102	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		<0.00050	0.00087	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A4036-001	VA25A4036-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		<0.0030	0.0161	----	----	----
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		0.110	0.141	----	----	----
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		0.00023	0.00021	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.00010	mg/L		0.00235	0.00292	----	----	----
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		0.0000064	0.0000058	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	0.050	mg/L		1.96	2.77	----	----	----
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		0.00098	0.00086	----	----	----
Iron, dissolved	7439-89-6	E421/VA	0.010	mg/L		0.022	0.018	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	0.0010	mg/L		<0.0010	<0.0010	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	0.0050	mg/L		0.300	0.301	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.00010	mg/L		0.00081	0.00096	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
						VA25A4036-001	VA25A4036-002	----	----	----
						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		0.000395	0.000929	----	----	----
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		0.281	0.276	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.00020	mg/L		0.00029	0.00041	----	----	----
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		3.05	3.11	----	----	----
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		1.16	1.26	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.00020	mg/L		0.00939	0.0102	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	0.50	mg/L		<0.50	<0.50	----	----	----
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		0.00045	0.00034	----	----	----
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		0.000153	0.000265	----	----	----
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		0.0015	0.0021	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	WLNG US 1	WLNG DS 1	----	----	----
					Client sampling date / time	25-Feb-2025 10:42	25-Feb-2025 10:18	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A4036-001	VA25A4036-002	----	----	----
						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	0.00069	----	----	----
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.

ALS Canada Ltd.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **VA25A4036**	Page	: 1 of 15
Client	: **Triton Environmental Consultants Ltd.**	Laboratory	: ALS Environmental - Vancouver
Contact	: Farshad Shafiei	Account Manager	: Can Dang
Address	: Suite 1730, 1111 West Georgia St Vancouver BC Canada V6E 4M3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: 11964	Date Samples Received	: 25-Feb-2025 14:00
PO	: 11964-Task 20-Phase 3C-4C	Issue Date	: 05-Mar-2025 15:29
C-O-C number	: ----		
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

Key

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

Workorder Comments

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

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

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

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Water**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Total Metals	QC-MRG3-1886829 002	----	Phosphorus, total	7723-14-0	E420	122 % MES	80.0-120%	Recovery greater than upper control limit

Result Qualifiers

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

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 Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG DS 1	E298	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	04-Mar-2025	28 days	7 days	✓
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid) WLNG US 1	E298	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	04-Mar-2025	28 days	7 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG US 1	E235.Br-L	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Bromide in Water by IC (Low Level)										
HDPE WLNG DS 1	E235.Br-L	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	7 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG DS 1	E235.Cl	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE WLNG US 1	E235.Cl	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Fluoride in Water by IC										
HDPE WLNG DS 1	E235.F	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Anions and Nutrients : Fluoride in Water by IC										
HDPE										
WLNG US 1	E235.F	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE										
WLNG US 1	E235.NO3-L	25-Feb-2025	28-Feb-2025	3 days	3 days	✓	28-Feb-2025	3 days	3 days	✓
Anions and Nutrients : Nitrate in Water by IC (Low Level)										
HDPE										
WLNG DS 1	E235.NO3-L	25-Feb-2025	28-Feb-2025	3 days	3 days	✓	04-Mar-2025	3 days	7 days	× EHT
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE										
WLNG DS 1	E235.NO2-L	25-Feb-2025	28-Feb-2025	3 days	3 days	✓	28-Feb-2025	3 days	3 days	✓
Anions and Nutrients : Nitrite in Water by IC (Low Level)										
HDPE										
WLNG US 1	E235.NO2-L	25-Feb-2025	28-Feb-2025	3 days	3 days	✓	28-Feb-2025	3 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
WLNG DS 1	E235.SO4	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE										
WLNG US 1	E235.SO4	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid)										
WLNG DS 1	E366	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	01-Mar-2025	28 days	4 days	✓
Anions and Nutrients : Total Nitrogen by Colourimetry										
Amber glass total (sulfuric acid)										
WLNG US 1	E366	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	01-Mar-2025	28 days	4 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		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	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	01-Mar-2025	28 days	4 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid)										
WLNG US 1	E372-U	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	01-Mar-2025	28 days	4 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WLNG DS 1	E509	25-Feb-2025	02-Mar-2025	28 days	5 days	✓	02-Mar-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Mercury in Water by CVAAS										
Glass vial dissolved (hydrochloric acid)										
WLNG US 1	E509	25-Feb-2025	02-Mar-2025	28 days	5 days	✓	02-Mar-2025	28 days	5 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
WLNG DS 1	E421	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE dissolved (nitric acid)										
WLNG US 1	E421	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid)										
WLNG DS 1	EF001	25-Feb-2025	----	----	----		27-Feb-2025	----	2 days	
Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine										
Glass vial dissolved (hydrochloric acid)										
WLNG US 1	EF001	25-Feb-2025	----	----	----		27-Feb-2025	----	2 days	
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (field filtered/sulfuric acid)										
WLNG DS 1	E358-L	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)										
Amber glass - dissolved (field filtered/sulfuric acid)										
WLNG US 1	E358-L	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WLNG DS 1	E290	25-Feb-2025	28-Feb-2025	14 days	3 days	✓	28-Feb-2025	14 days	3 days	✓
Physical Tests : Alkalinity Species by Titration										
HDPE										
WLNG US 1	E290	25-Feb-2025	28-Feb-2025	14 days	3 days	✓	28-Feb-2025	14 days	3 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
WLNG DS 1	E162	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Physical Tests : TDS by Gravimetry										
HDPE										
WLNG US 1	E162	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
WLNG DS 1	E160	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Physical Tests : TSS by Gravimetry										
HDPE										
WLNG US 1	E160	25-Feb-2025	----	----	----		03-Mar-2025	7 days	6 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
WLNG DS 1	E532	25-Feb-2025	----	----	----		27-Feb-2025	28 days	2 days	✓
Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC										
Opaque HDPE - total (sodium hydroxide)										
WLNG US 1	E532	25-Feb-2025	----	----	----		27-Feb-2025	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* Rec	*Holding Times* Actual	*Eval*	*Analysis Date*	*Holding Times* Rec	*Holding Times* Actual	*Eval*
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
WLNG DS 1	E508	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial total (hydrochloric acid)										
WLNG US 1	E508	25-Feb-2025	28-Feb-2025	28 days	3 days	✓	28-Feb-2025	28 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WLNG DS 1	E420	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE total (nitric acid)										
WLNG US 1	E420	25-Feb-2025	26-Feb-2025	180 days	1 days	✓	27-Feb-2025	180 days	2 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide)										
WLNG DS 1	E395	25-Feb-2025	----	----	----		26-Feb-2025	7 days	1 days	✓
Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)										
HDPE total (zinc acetate+sodium hydroxide)										
WLNG US 1	E395	25-Feb-2025	----	----	----		26-Feb-2025	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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1890159	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1890158	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1890157	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1890161	1	18	5.5	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1890160	1	15	6.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1890162	1	15	6.6	5.0	✓
Alkalinity Species by Titration	E290	1890152	1	13	7.6	5.0	✓
Ammonia by Fluorescence	E298	1890751	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1890752	1	9	11.1	5.0	✓
Total Nitrogen by Colourimetry	E366	1890753	1	3	33.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1890754	1	2	50.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1886831	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887224	1	8	12.5	5.0	✓
Total Mercury in Water by CVAAS	E508	1890349	1	8	12.5	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1892379	1	2	50.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Laboratory Control Samples (LCS)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1890159	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1890158	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1890157	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1890161	1	18	5.5	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1890160	1	15	6.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1890162	1	15	6.6	5.0	✓
Alkalinity Species by Titration	E290	1890152	1	13	7.6	5.0	✓
Ammonia by Fluorescence	E298	1890751	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1890752	1	9	11.1	5.0	✓
Total Nitrogen by Colourimetry	E366	1890753	1	3	33.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1890754	1	2	50.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1886831	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887224	1	8	12.5	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Control Samples (LCS) - Continued							
Total Mercury in Water by CVAAS	E508	1890349	1	8	12.5	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1892379	1	2	50.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Method Blanks (MB)							
TSS by Gravimetry	E160	1893373	1	11	9.0	5.0	✓
TDS by Gravimetry	E162	1893374	1	20	5.0	5.0	✓
Bromide in Water by IC (Low Level)	E235.Br-L	1890159	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1890158	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1890157	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1890161	1	18	5.5	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1890160	1	15	6.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1890162	1	15	6.6	5.0	✓
Alkalinity Species by Titration	E290	1890152	1	13	7.6	5.0	✓
Ammonia by Fluorescence	E298	1890751	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1890752	1	9	11.1	5.0	✓
Total Nitrogen by Colourimetry	E366	1890753	1	3	33.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1890754	1	2	50.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1886831	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887224	1	8	12.5	5.0	✓
Total Mercury in Water by CVAAS	E508	1890349	1	8	12.5	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1892379	1	2	50.0	5.0	✓
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓
Matrix Spikes (MS)							
Bromide in Water by IC (Low Level)	E235.Br-L	1890159	1	10	10.0	5.0	✓
Chloride in Water by IC	E235.Cl	1890158	1	15	6.6	5.0	✓
Fluoride in Water by IC	E235.F	1890157	1	14	7.1	5.0	✓
Nitrite in Water by IC (Low Level)	E235.NO2-L	1890161	1	18	5.5	5.0	✓
Nitrate in Water by IC (Low Level)	E235.NO3-L	1890160	1	15	6.6	5.0	✓
Sulfate in Water by IC	E235.SO4	1890162	1	15	6.6	5.0	✓
Ammonia by Fluorescence	E298	1890751	1	20	5.0	5.0	✓
Dissolved Organic Carbon by Combustion (Low Level)	E358-L	1890752	1	9	11.1	5.0	✓
Total Nitrogen by Colourimetry	E366	1890753	1	3	33.3	5.0	✓
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1890754	1	2	50.0	5.0	✓
Total Sulfide by Colourimetry (Automated Flow)	E395	1888144	1	17	5.8	5.0	✓
Total Metals in Water by CRC ICPMS	E420	1886831	1	20	5.0	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	1887224	1	8	12.5	5.0	✓
Total Mercury in Water by CVAAS	E508	1890349	1	8	12.5	5.0	✓
Dissolved Mercury in Water by CVAAS	E509	1892379	1	2	50.0	5.0	✓

Matrix: **Water**

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

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Matrix Spikes (MS) - Continued							
Total Hexavalent Chromium (Cr VI) by IC	E532	1890023	1	17	5.8	5.0	✓

Methodology References and Summaries

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

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 ± 1°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 ± 2°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 CO2. 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 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 methlyene blue colourimetric method. Results expressed "as H2S" if reported represent the maximum possible H2S concentration based on the total sulfide concentration in the sample. The H2S calculation converts Total Sulphide as (S2-) and reports it as Total Sulphide as (H2S)
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 CaCO3), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO3 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 CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO3 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, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine	EF001 ALS Environmental - Vancouver	Water	Field Measurement (Client Supplied)	Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3 or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.

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

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

ALS Canada Ltd.

QUALITY CONTROL REPORT

Work Order	: **VA25A4036**	Page	: 1 of 17
Client	: Triton Environmental Consultants Ltd.	Laboratory	: ALS Environmental - Vancouver
Contact	: Farshad Shafiei	Account Manager	: Can Dang
Address	: Suite 1730, 1111 West Georgia St Vancouver BC Canada V6E 4M3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: 11964	Date Samples Received	: 25-Feb-2025 14:00
PO	: 11964-Task 20-Phase 3C-4C	Date Analysis Commenced	: 26-Feb-2025
C-O-C number	: ----	Issue Date	: 05-Mar-2025 15:29
Sampler	: ----		
Site	: Water Analysis		
Quote number	: VA25-TRIT100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Laboratory Department*
Ilnaz Badbezanchi	Supervisor - Metals Prep	Vancouver Metals, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Vancouver Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Inorganics, Burnaby, British Columbia
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Miles Gropen	Department Manager - Inorganics	Vancouver Inorganics, Burnaby, British Columbia
Paolo Obillo	Account Manager Assistant	Vancouver Administration, Burnaby, British Columbia
Tracy Harley	Supervisor - Water Quality Instrumentation	Vancouver Inorganics, Burnaby, British Columbia

General Comments

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

Key :

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

Workorder Comments

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

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 1890152)											
KS2500658-001	Anonymous	Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	304	304	0.0328%	20%	----
Physical Tests (QC Lot: 1893373)											
FJ2500633-001	Anonymous	Solids, total suspended [TSS]	----	E160	7.5	mg/L	2160	2130	1.26%	20%	----
Physical Tests (QC Lot: 1893374)											
FJ2500633-001	Anonymous	Solids, total dissolved [TDS]	----	E162	20	mg/L	642	638	0.781%	20%	----
Anions and Nutrients (QC Lot: 1890157)											
KS2500658-001	Anonymous	Fluoride	16984-48-8	E235.F	0.100	mg/L	0.182	0.205	0.023	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1890158)											
KS2500658-001	Anonymous	Chloride	16887-00-6	E235.Cl	2.50	mg/L	23.0	25.3	2.30	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1890159)											
KS2500658-001	Anonymous	Bromide	24959-67-9	E235.Br-L	0.250	mg/L	<0.250	<0.250	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1890160)											
KS2500658-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3-L	0.0250	mg/L	0.0539	0.0505	0.0034	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1890161)											
KS2500658-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2-L	0.0050	mg/L	0.0056	0.0075	0.0019	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1890162)											
KS2500658-001	Anonymous	Sulfate (as SO4)	14808-79-8	E235.SO4	1.50	mg/L	66.7	73.9	10.3%	20%	----
Anions and Nutrients (QC Lot: 1890751)											
FJ2500572-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.500	mg/L	25.2	25.1	0.330%	20%	----
Anions and Nutrients (QC Lot: 1890753)											
FJ2500580-001	Anonymous	Nitrogen, total	7727-37-9	E366	0.300	mg/L	14.5	14.6	0.492%	20%	----
Anions and Nutrients (QC Lot: 1890754)											
VA25A4036-001	WLNG US 1	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0565	0.0562	0.639%	20%	----
Organic / Inorganic Carbon (QC Lot: 1890752)											
VA25A4036-001	WLNG US 1	Carbon, dissolved organic [DOC]	----	E358-L	0.50	mg/L	2.83	2.88	0.05	Diff <2x LOR	----
Total Sulfides (QC Lot: 1888144)											
VA25A3933-001	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: 1886831)											
VA25A3963-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	1.18	1.16	1.31%	20%	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	0.00477	0.00455	4.58%	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: 1886831) - continued											
VA25A3963-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00093	0.00094	0.000010	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0534	0.0528	1.16%	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	0.000059	0.000055	0.000004	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.239	0.222	7.06%	20%	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.000400	0.000382	4.55%	20%	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	43.1	40.2	6.84%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000166	0.000162	2.84%	20%	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	0.00108	0.00114	0.00006	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00120	0.00116	3.47%	20%	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00828	0.00826	0.240%	20%	----
		Iron, total	7439-89-6	E420	0.010	mg/L	0.968	0.971	0.373%	20%	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	0.0140	0.0132	5.78%	20%	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.111	0.104	5.85%	20%	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	3.93	3.84	2.16%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.153	0.148	3.21%	20%	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.0167	0.0160	4.40%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	0.00802	0.00782	2.63%	20%	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.078	0.057	0.021	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	7.93	7.29	8.44%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00516	0.00489	5.36%	20%	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000090	0.000128	0.000038	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	1.64	1.61	1.96%	20%	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	0.000014	0.000012	0.000001	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	36.3	35.6	2.00%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.281	0.272	3.29%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	17.0	16.1	5.38%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Thallium, total	7440-28-0	E420	0.000010	mg/L	0.000068	0.000064	0.000005	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	0.00099	0.00098	0.00002	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00030	mg/L	0.00708	0.00691	2.49%	20%	----
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	0.00044	0.00043	0.000008	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000014	0.000013	0.0000007	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: 1886831) - continued											
VA25A3963-001	Anonymous	Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00053	0.00050	0.00003	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.151	0.147	2.76%	20%	----
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	0.00028	0.00030	0.00001	Diff <2x LOR	----
Total Metals (QC Lot: 1890349)											
VA25A3808-002	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1887224)											
VA25A4074-001	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0252	0.0250	0.683%	20%	----
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	0.00914	0.00890	2.70%	20%	----
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00355	0.00356	0.345%	20%	----
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0374	0.0371	0.650%	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	0.117	0.112	4.42%	20%	----
		Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000141	0.0000111	0.0000030	Diff <2x LOR	----
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	28.1	27.9	0.981%	20%	----
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.00185	0.00182	2.04%	20%	----
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	0.000097	0.000093	0.000004	Diff <2x LOR	----
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0660	0.0640	3.24%	20%	----
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	1.85	1.88	1.63%	20%	----
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0592	0.0599	1.21%	20%	----
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.0105	0.0104	1.22%	20%	----
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	13.5	13.6	0.307%	20%	----
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.0171	0.0178	4.14%	20%	----
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000769	0.000764	0.622%	20%	----
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	1.57	1.60	2.01%	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	29.7	30.8	3.31%	20%	----
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.507	0.499	1.68%	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: 1887224) - continued											
VA25A4074-001	Anonymous	Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	24.1	23.9	0.991%	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	0.000045	0.000043	0.000002	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	0.00094	0.00092	0.00002	Diff <2x LOR	----
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000432	0.000417	3.55%	20%	----
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	----
Dissolved Metals (QC Lot: 1892379)											
VA25A4036-001	WLNG US 1	Mercury, dissolved	7439-97-6	E509	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1890023)											
FJ2500546-013	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: 1890152)						
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	<1.0	----
Physical Tests (QCLot: 1893373)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests (QCLot: 1893374)						
Solids, total dissolved [TDS]	----	E162	10	mg/L	<10	----
Anions and Nutrients (QCLot: 1890157)						
Fluoride	16984-48-8	E235.F	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1890158)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients (QCLot: 1890159)						
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1890160)						
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1890161)						
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	<0.0010	----
Anions and Nutrients (QCLot: 1890162)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Anions and Nutrients (QCLot: 1890751)						
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	<0.0050	----
Anions and Nutrients (QCLot: 1890753)						
Nitrogen, total	7727-37-9	E366	0.03	mg/L	<0.030	----
Anions and Nutrients (QCLot: 1890754)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Organic / Inorganic Carbon (QCLot: 1890752)						
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	<0.50	----
Total Sulfides (QCLot: 1888144)						
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	<0.0015	----
Total Metals (QCLot: 1886831)						
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: 1886831) - 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: 1890349)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Dissolved Metals (QCLot: 1887224)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals (QCLot: 1887224) - 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: 1892379)						
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	<0.0000050	----
Speciated Metals (QCLot: 1890023)						
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: 1890152)									
Alkalinity, total (as CaCO3)	----	E290	1	mg/L	500 mg/L	105	85.0	115	----
Physical Tests (QCLot: 1893373)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	91.5	85.0	115	----
Physical Tests (QCLot: 1893374)									
Solids, total dissolved [TDS]	----	E162	10	mg/L	1000 mg/L	98.8	85.0	115	----
Anions and Nutrients (QCLot: 1890157)									
Fluoride	16984-48-8	E235.F	0.02	mg/L	1 mg/L	98.8	90.0	110	----
Anions and Nutrients (QCLot: 1890158)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1890159)									
Bromide	24959-67-9	E235.Br-L	0.05	mg/L	0.5 mg/L	104	85.0	115	----
Anions and Nutrients (QCLot: 1890160)									
Nitrate (as N)	14797-55-8	E235.NO3-L	0.005	mg/L	2.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1890161)									
Nitrite (as N)	14797-65-0	E235.NO2-L	0.001	mg/L	0.5 mg/L	99.1	90.0	110	----
Anions and Nutrients (QCLot: 1890162)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1890751)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	103	85.0	115	----
Anions and Nutrients (QCLot: 1890753)									
Nitrogen, total	7727-37-9	E366	0.03	mg/L	0.5 mg/L	96.7	75.0	125	----
Anions and Nutrients (QCLot: 1890754)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.05 mg/L	98.5	80.0	120	----
Organic / Inorganic Carbon (QCLot: 1890752)									
Carbon, dissolved organic [DOC]	----	E358-L	0.5	mg/L	8.57 mg/L	106	80.0	120	----
Total Sulfides (QCLot: 1888144)									
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	0.08 mg/L	109	80.0	120	----
Total Metals (QCLot: 1886831)									

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: 1886831) - continued									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	104	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	100	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	111	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	103	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	96.0	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	98.6	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	95.8	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	103	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	98.4	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	100	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	106	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	103	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	104	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	98.5	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	102	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	101	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	101	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	100	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	# 122	80.0	120	MES
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	114	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	102	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	107	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	98.0	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	93.7	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	99.5	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	90.8	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	99.0	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	98.8	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	97.0	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	99.2	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	100	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	101	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	101	80.0	120	----

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 1886831) - continued									
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	103	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	104	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	95.5	80.0	120	----
Total Metals (QCLot: 1890349)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	94.4	80.0	120	----
Dissolved Metals (QCLot: 1887224)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	104	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	96.9	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	103	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	100	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	100	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	97.3	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	94.5	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	96.8	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	95.6	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	96.8	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	97.6	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	98.5	80.0	120	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	100	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	97.6	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	97.6	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	98.8	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	98.4	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	96.5	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	100	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	99.8	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	105	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	96.1	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	107	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	89.8	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	101	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	98.1	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	94.2	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: 1887224) - continued									
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	93.0	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	95.7	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	96.0	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	95.0	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	94.9	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	97.4	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	97.1	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	92.7	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	94.5	80.0	120	----
Mercury, dissolved	7439-97-6	E509	0.000005	mg/L	0 mg/L	95.5	80.0	120	----
Speciated Metals (QCLot: 1890023)									
Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.0005	mg/L	0.25 mg/L	96.1	80.0	120	----

Qualifiers

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

Matrix Spike (MS) 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: 1890157)										
VA25A4036-001	WLNG US 1	Fluoride	16984-48-8	E235.F	0.822 mg/L	1 mg/L	82.2	75.0	125	----
Anions and Nutrients (QCLot: 1890158)										
VA25A4036-001	WLNG US 1	Chloride	16887-00-6	E235.Cl	84.1 mg/L	100 mg/L	84.1	75.0	125	----
Anions and Nutrients (QCLot: 1890159)										
VA25A4036-001	WLNG US 1	Bromide	24959-67-9	E235.Br-L	0.444 mg/L	0.5 mg/L	88.7	75.0	125	----
Anions and Nutrients (QCLot: 1890160)										
VA25A4036-001	WLNG US 1	Nitrate (as N)	14797-55-8	E235.NO3-L	2.10 mg/L	2.5 mg/L	84.2	75.0	125	----
Anions and Nutrients (QCLot: 1890161)										
VA25A4036-001	WLNG US 1	Nitrite (as N)	14797-65-0	E235.NO2-L	0.410 mg/L	0.5 mg/L	82.1	75.0	125	----
Anions and Nutrients (QCLot: 1890162)										
VA25A4036-001	WLNG US 1	Sulfate (as SO4)	14808-79-8	E235.SO4	84.8 mg/L	100 mg/L	84.8	75.0	125	----
Anions and Nutrients (QCLot: 1890751)										
FJ2500580-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L	----	ND	75.0	125	----
Anions and Nutrients (QCLot: 1890753)										
VA25A4036-001	WLNG US 1	Nitrogen, total	7727-37-9	E366	0.376 mg/L	0.4 mg/L	94.0	70.0	130	----
Anions and Nutrients (QCLot: 1890754)										
VA25A4036-002	WLNG DS 1	Phosphorus, total	7723-14-0	E372-U	0.0490 mg/L	0.05 mg/L	97.9	70.0	130	----
Organic / Inorganic Carbon (QCLot: 1890752)										
VA25A4036-002	WLNG DS 1	Carbon, dissolved organic [DOC]	----	E358-L	5.14 mg/L	5 mg/L	103	70.0	130	----
Total Sulfides (QCLot: 1888144)										
VA25A3933-002	Anonymous	Sulfide, total (as S)	18496-25-8	E395	0.220 mg/L	0.2 mg/L	110	75.0	125	----
Total Metals (QCLot: 1886831)										
VA25A3963-002	Anonymous	Aluminum, total	7429-90-5	E420	ND mg/L	----	ND	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0189 mg/L	0.02 mg/L	94.4	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0203 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	0.00934 mg/L	0.01 mg/L	93.4	70.0	130	----
		Boron, total	7440-42-8	E420	ND mg/L	----	ND	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00366 mg/L	0.004 mg/L	91.5	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00954 mg/L	0.01 mg/L	95.4	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0384 mg/L	0.04 mg/L	96.1	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1886831) - continued										
VA25A3963-002	Anonymous	Cobalt, total	7440-48-4	E420	0.0185 mg/L	0.02 mg/L	92.4	70.0	130	----
		Copper, total	7440-50-8	E420	ND mg/L	----	ND	70.0	130	----
		Iron, total	7439-89-6	E420	ND mg/L	----	ND	70.0	130	----
		Lead, total	7439-92-1	E420	ND mg/L	----	ND	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0920 mg/L	0.1 mg/L	92.0	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	0.0194 mg/L	0.02 mg/L	97.2	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0360 mg/L	0.04 mg/L	90.0	70.0	130	----
		Phosphorus, total	7723-14-0	E420	10.6 mg/L	10 mg/L	106	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0193 mg/L	0.02 mg/L	96.4	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0418 mg/L	0.04 mg/L	104	70.0	130	----
		Silicon, total	7440-21-3	E420	9.55 mg/L	10 mg/L	95.5	70.0	130	----
		Silver, total	7440-22-4	E420	0.00371 mg/L	0.004 mg/L	92.7	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	20.6 mg/L	20 mg/L	103	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0373 mg/L	0.04 mg/L	93.2	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	0.0202 mg/L	0.02 mg/L	101	70.0	130	----
		Tin, total	7440-31-5	E420	0.0195 mg/L	0.02 mg/L	97.4	70.0	130	----
		Titanium, total	7440-32-6	E420	ND mg/L	----	ND	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00395 mg/L	0.004 mg/L	98.8	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0963 mg/L	0.1 mg/L	96.3	70.0	130	----
		Zinc, total	7440-66-6	E420	ND mg/L	----	ND	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0380 mg/L	0.04 mg/L	95.1	70.0	130	----
Total Metals (QCLot: 1890349)										
VA25A3822-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000926 mg/L	0 mg/L	92.6	70.0	130	----
Dissolved Metals (QCLot: 1887224)										
VA25A4074-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.198 mg/L	0.2 mg/L	98.8	70.0	130	----
		Antimony, dissolved	7440-36-0	E421	0.0185 mg/L	0.02 mg/L	92.4	70.0	130	----
		Arsenic, dissolved	7440-38-2	E421	0.0204 mg/L	0.02 mg/L	102	70.0	130	----
		Barium, dissolved	7440-39-3	E421	ND mg/L	----	ND	70.0	130	----
		Beryllium, dissolved	7440-41-7	E421	0.0399 mg/L	0.04 mg/L	99.8	70.0	130	----
		Bismuth, dissolved	7440-69-9	E421	0.00912 mg/L	0.01 mg/L	91.2	70.0	130	----
		Boron, dissolved	7440-42-8	E421	ND mg/L	----	ND	70.0	130	----
		Cadmium, dissolved	7440-43-9	E421	0.00382 mg/L	0.004 mg/L	95.6	70.0	130	----
		Calcium, dissolved	7440-70-2	E421	ND mg/L	----	ND	70.0	130	----
		Cesium, dissolved	7440-46-2	E421	0.00927 mg/L	0.01 mg/L	92.7	70.0	130	----
		Chromium, dissolved	7440-47-3	E421	0.0388 mg/L	0.04 mg/L	97.1	70.0	130	----
		Cobalt, dissolved	7440-48-4	E421	0.0190 mg/L	0.02 mg/L	95.0	70.0	130	----

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Dissolved Metals (QCLot: 1887224) - continued										
VA25A4074-002	Anonymous	Copper, dissolved	7440-50-8	E421	0.0188 mg/L	0.02 mg/L	94.2	70.0	130	----
		Iron, dissolved	7439-89-6	E421	1.95 mg/L	2 mg/L	97.4	70.0	130	----
		Lead, dissolved	7439-92-1	E421	0.0187 mg/L	0.02 mg/L	93.7	70.0	130	----
		Lithium, dissolved	7439-93-2	E421	0.0950 mg/L	0.1 mg/L	95.0	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	0.0183 mg/L	0.02 mg/L	91.6	70.0	130	----
		Nickel, dissolved	7440-02-0	E421	0.0387 mg/L	0.04 mg/L	96.8	70.0	130	----
		Phosphorus, dissolved	7723-14-0	E421	10.4 mg/L	10 mg/L	104	70.0	130	----
		Potassium, dissolved	7440-09-7	E421	ND mg/L	----	ND	70.0	130	----
		Rubidium, dissolved	7440-17-7	E421	0.0188 mg/L	0.02 mg/L	94.2	70.0	130	----
		Selenium, dissolved	7782-49-2	E421	0.0388 mg/L	0.04 mg/L	96.9	70.0	130	----
		Silicon, dissolved	7440-21-3	E421	10.0 mg/L	10 mg/L	100	70.0	130	----
		Silver, dissolved	7440-22-4	E421	0.00367 mg/L	0.004 mg/L	91.8	70.0	130	----
		Sodium, dissolved	7440-23-5	E421	ND mg/L	----	ND	70.0	130	----
		Strontium, dissolved	7440-24-6	E421	ND mg/L	----	ND	70.0	130	----
		Sulfur, dissolved	7704-34-9	E421	ND mg/L	----	ND	70.0	130	----
		Tellurium, dissolved	13494-80-9	E421	0.0364 mg/L	0.04 mg/L	91.0	70.0	130	----
		Thallium, dissolved	7440-28-0	E421	0.00370 mg/L	0.004 mg/L	92.5	70.0	130	----
		Thorium, dissolved	7440-29-1	E421	0.0197 mg/L	0.02 mg/L	98.4	70.0	130	----
		Tin, dissolved	7440-31-5	E421	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Titanium, dissolved	7440-32-6	E421	0.0389 mg/L	0.04 mg/L	97.3	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	0.00379 mg/L	0.004 mg/L	94.8	70.0	130	----
		Vanadium, dissolved	7440-62-2	E421	0.0997 mg/L	0.1 mg/L	99.7	70.0	130	----
		Zinc, dissolved	7440-66-6	E421	0.375 mg/L	0.4 mg/L	93.8	70.0	130	----
		Zirconium, dissolved	7440-67-7	E421	0.0386 mg/L	0.04 mg/L	96.6	70.0	130	----
Dissolved Metals (QCLot: 1892379)										
VA25A4036-002	WLNG DS 1	Mercury, dissolved	7439-97-6	E509	0.0000910 mg/L	0 mg/L	91.0	70.0	130	----
Speciated Metals (QCLot: 1890023)										
FJ2500546-014	Anonymous	Chromium, hexavalent [Cr VI], total	18540-29-9	E532	0.246 mg/L	0.25 mg/L	98.5	70.0	130	----

Chain of Custody (COC) / Analytical Request Form

ALS Environmental

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Affix ALS barcode label here (lab use only)

COC Number: 1 / -

Page 1 of 1

Report To	Contact and company name below will appear on the final report
Company:	Triton Environmental
Contact:	Farshad Shafiei
Phone:	306-715-1660
	Company address below will appear on the final report
Street:	1730-1111 West Georgia Street
City/Province:	Vancouver/BC
Postal Code:	V6E 4M3
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format:	☑ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report	☑ YES ☐ NO
☑ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	farshad.shafiei@triton-env.com, Default list
Email 2	achan@triton-env.com; lily.chycoski@triton-env.co
Email 3	ESdat_CA+tritonenv@ESdatLabSync.net

Invoice Distribution

Select Invoice Distribution:	☑ EMAIL ☑ MAIL ☑ FAX
Email 1 or Fax	farshad.shafiei@triton-env.com
Email 2	smuminovic@triton-env.com

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

Project Information

ALS Account # / Quote #:	VA25-TRIT100-001
Job #:	11964
PO / AFE:	11964 - Task 20 - Phase 3C-4C
LSD:	
ALS Lab Work Order # (lab use only):	
ALS Contact:	Can Dang
Sampler:	

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E1 - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: March 5/2025

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Total metals + mercury	Dissolved metals + mercury	Total hexavalent chromium	Total trivalent chromium	TSS	TDS	Nutrients (ammonia, ammonium, total nitrogen, total phosphorus)	Total sulfide (low) (as H2S), Unionized Sulfide (low)	Anions scan (Br, Cl, F, NO2, NO3, SO4)	General parameters (alkalinity)	DOC	SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
						F					P	P			F/P			
	WLNG US 1	Feb 25/25	10:42	Water	R	R	R	R	R	R	R	R	R	R	R		N	9
	pH: 7.42 cond: 22 temp: 6.5																	
	WLNG DS 1	Feb 25/25	10:18	Water	R	R	R	R	R	R	R	R	R	R	R		N	9
	pH: 7.59 cond: 66 temp: 7.3																	

Environmental Division
Vancouver
Work Order Reference
VA25A4036

Telephone : +1 604 253 4188

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ ☑ NO

Are samples for human consumption/ use? ☐ ☑ NO

Special Instructions / Specify Crite ... list below

Triton project # 11964

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☒ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				7			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:
SR	Feb 25/2025	205

SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:

FINAL SHIPMENT RECEPTION (lab use only)

Received by:	Date:	Time:
CW	Feb 25	1400

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SEPT 2017 FRONT

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

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

Woodfibre Site Receiving Environment Field Notes and Logs

FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2025-2-25-Renkers-C05B6

Project Component:	Tunnel	**Site Name:**	Receiving Environment - Downstream of Discharge
Inspection Date:	02/25/2025	**Location:**	WLNG
Triton QP:	Stephanie Renkers	**Latitude/Longitude:**	49.669096 -123.248263
Temperature(c):	Low 3 High 8	**Permit:**	PE 110136
Weather Conditions:	Light Rain	**Ground Conditions:**	Wet

Observations

Time: 10:18:00 **Flow Volume (visual):** moderate

Notes:

Odour Detected?:	No	**Notes:**	
Unusual Colour?	No	**Notes:**	
Unusual Observations?	No	**Notes:**	
Sheen on Water?	No	**Notes:**	

Samples Collected - Parameters

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

Logger Maintenance

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

Describe Logger Maintenance

Photos

Photo: 1

Location: WLNG DS

Description: Upstream view

Photo: 2

Location: WLNG DS

Description: Across view

Photos

Photo: 3

Location: WLNG DS

Description: Downstream view

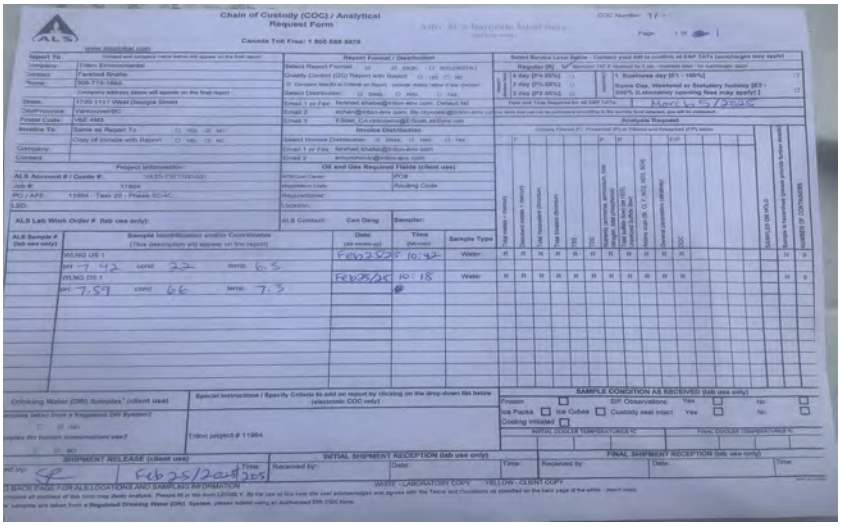


Photo: 4

Location: WLNG DS

Description: Lab COC

Sign Off

Report Prepared By:	Stephanie Renkers	**Report Reviewed:**	Yes
Report Reviewer:	Farshad Shafiei	**Professional(s) of Record:**	N/A
Name:			
Designation:			
Designation Number:			

FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2025-2-25-Renkers-1D94E

Project Component:	Tunnel	**Site Name:**	Receiving Environment - Upstream of Discharge
Inspection Date:	02/25/2025	**Location:**	WLNG
Triton QP:	Stephanie Renkers	**Latitude/Longitude:**	49.669455 -123.25087
Temperature(c):	Low 3 High 8	**Permit:**	PE 110136
Weather Conditions:	Light Rain	**Ground Conditions:**	Wet

Observations

Time: 10:42:00 **Flow Volume (visual):** moderate

Notes:

Odour Detected?:	No	**Notes:**	
Unusual Colour?	No	**Notes:**	
Unusual Observations?	No	**Notes:**	
Sheen on Water?	No	**Notes:**	

Samples Collected - Parameters

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

Logger Maintenance

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

Describe Logger Maintenance

Photos

Photo: 1

Location: WLNG US

Description: Upstream view

Photo: 2

Location: WLNG US

Description: Across view

Photos

Photo: 3

Location: WLNG US

Description: Downstream view

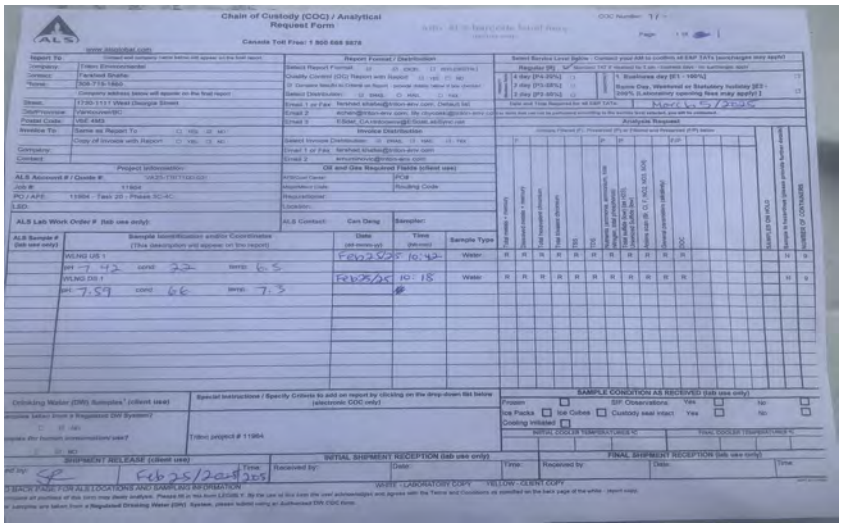


Photo: 4

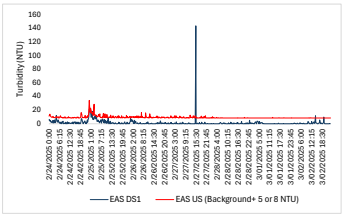
Location: WLNG US

Description: Lab COC

Sign Off

Report Prepared By:	Stephanie Renkers	**Report Reviewed:**	Yes
Report Reviewer:	Farshad Shafiei	**Professional(s) of Record:**	N/A
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)	EAS US (Background+ 5 or 8 NTU)
2/24/2025 0:00	6.7	62.8	0.0	7.1	11.2	5.1	2/24/2025 0:00	6.3	19.8	0.0	7.2	11.2	3.0	11.0
2/24/2025 0:15	6.7	58.1	0.0	7.2	11.3	5.5	2/24/2025 0:15	6.3	17.2	0.0	7.2	11.2	4.2	12.2
2/24/2025 0:30	6.7	70.9	0.0	7.0	11.2	3.2	2/24/2025 0:30	6.3	18.8	0.0	7.2	11.2	5.6	13.6
2/24/2025 0:45	6.7	59.6	0.0	7.2	11.3	3.7	2/24/2025 0:45	6.3	16.7	0.0	7.2	11.3	2.7	10.7
2/24/2025 1:00	6.7	62.3	0.0	7.2	11.3	4.2	2/24/2025 1:00	6.2	18.0	0.0	7.2	11.2	3.0	11.0
2/24/2025 1:15	6.6	69.5	0.0	7.2	11.3	1.4	2/24/2025 1:15	6.2	15.8	0.0	7.2	11.3	1.6	9.6
2/24/2025 1:30	6.2	26.8	0.0	6.9	11.4	1.8	2/24/2025 1:30	6.2	17.1	0.0	7.2	11.2	1.7	9.7
2/24/2025 1:45	6.2	27.6	0.0	6.8	11.4	2.3	2/24/2025 1:45	6.2	15.2	0.0	7.2	11.2	1.2	9.2
2/24/2025 2:00	6.6	103.9	0.0	7.2	11.3	2.4	2/24/2025 2:00	6.2	16.5	0.0	7.1	11.2	1.0	9.0
2/24/2025 2:15	6.7	109.4	0.1	7.2	11.3	4.2	2/24/2025 2:15	6.2	14.6	0.0	7.2	11.3	2.2	10.2
2/24/2025 2:30	6.3	34.7	0.0	6.9	11.4	0.6	2/24/2025 2:30	6.2	15.8	0.0	7.1	11.3	2.3	10.3
2/24/2025 2:45	6.7	96.9	0.0	7.4	11.3	4.4	2/24/2025 2:45	6.2	15.5	0.0	7.0	11.3	0.3	8.3
2/24/2025 3:00	6.3	39.1	0.0	7.1	11.4	1.1	2/24/2025 3:00	6.2	15.4	0.0	7.1	11.3	0.8	8.8
2/24/2025 3:15	6.6	129.3	0.1	7.4	11.3	5.2	2/24/2025 3:15	6.2	15.3	0.0	7.1	11.2	0.4	8.4
2/24/2025 3:30	6.3	57.9	0.0	7.2	11.4	0.9	2/24/2025 3:30	6.2	14.8	0.0	7.1	11.3	0.3	8.3
2/24/2025 3:45	6.2	23.7	0.0	6.9	11.4	1.9	2/24/2025 3:45	6.2	13.4	0.0	7.1	11.3	0.9	8.9
2/24/2025 4:00	6.5	111.7	0.1	7.3	11.4	4.3	2/24/2025 4:00	6.2	14.8	0.0	7.1	11.2	1.3	9.3
2/24/2025 4:15	6.7	160.8	0.1	7.6	11.3	12.0	2/24/2025 4:15	6.2	14.8	0.0	7.1	11.3	1.9	9.9
2/24/2025 4:30	6.5	125.5	0.1	8.1	11.3	7.2	2/24/2025 4:30	6.2	14.5	0.0	7.1	11.3	0.3	8.3
2/24/2025 4:45	6.1	20.8	0.0	7.1	11.5	3.1	2/24/2025 4:45	6.2	12.9	0.0	7.1	11.3	1.3	9.3
2/24/2025 5:00	6.2	35.3	0.0	6.9	11.5	2.0	2/24/2025 5:00	6.2	14.3	0.0	7.1	11.2	1.3	9.3
2/24/2025 5:15	6.7	136.1	0.1	7.1	11.3	2.7	2/24/2025 5:15	6.2	12.9	0.0	7.0	11.3	1.0	9.0
2/24/2025 5:30	6.7	118.8	0.1	7.2	11.3	5.0	2/24/2025 5:30	6.2	14.1	0.0	7.1	11.3	1.9	9.9
2/24/2025 5:45	6.7	103.0	0.0	7.3	11.3	1.8	2/24/2025 5:45	6.2	12.6	0.0	7.1	11.3	0.2	8.2
2/24/2025 6:00	6.7	103.6	0.0	7.3	11.3	2.5	2/24/2025 6:00	6.2	14.0	0.0	7.1	11.3	0.2	8.2
2/24/2025 6:15	6.7	91.6	0.0	7.3	11.3	0.7	2/24/2025 6:15	6.2	12.6	0.0	7.1	11.3	0.5	8.5
2/24/2025 6:30	6.4	57.4	0.0	7.2	11.3	0.8	2/24/2025 6:30	6.2	13.9	0.0	7.0	11.2	1.9	9.9
2/24/2025 6:45	6.1	19.3	0.0	6.8	11.5	0.0	2/24/2025 6:45	6.2	13.7	0.0	7.1	11.3	3.4	11.4
2/24/2025 7:00	6.1	21.7	0.0	6.8	11.5	0.8	2/24/2025 7:00	6.2	12.3	0.0	7.1	11.3	1.0	9.0
2/24/2025 7:15	6.1	24.8	0.0	6.8	11.5	2.4	2/24/2025 7:15	6.2	13.6	0.0	6.9	11.2	1.5	9.5
2/24/2025 7:30	6.6	72.5	0.0	7.2	11.3	0.0	2/24/2025 7:30	6.2	13.6	0.0	7.1	11.3	0.5	8.5
2/24/2025 7:45	6.6	67.3	0.0	7.2	11.3	0.4	2/24/2025 7:45	6.2	12.2	0.0	7.0	11.2	0.8	8.8
2/24/2025 8:00	6.3	31.5	0.0	7.1	11.4	1.5	2/24/2025 8:00	6.2	13.5	0.0	7.1	11.3	0.2	8.2
2/24/2025 8:15	6.1	20.3	0.0	6.8	11.5	3.5	2/24/2025 8:15	6.2	13.5	0.0	7.1	11.3	0.6	8.6
2/24/2025 8:30	6.4	47.2	0.0	7.1	11.3	0.3	2/24/2025 8:30	6.2	13.4	0.0	7.1	11.3	0.2	8.2
2/24/2025 8:45	6.2	24.1	0.0	7.0	11.4	0.0	2/24/2025 8:45	6.2	13.5	0.0	7.0	11.3	0.9	8.9
2/24/2025 9:00	6.1	19.7	0.0	6.8	11.4	0.1	2/24/2025 9:00	6.2	13.3	0.0	7.1	11.3	0.2	8.2
2/24/2025 9:15	6.6	59.7	0.0	7.1	11.3	0.2	2/24/2025 9:15	6.2	13.5	0.0	7.1	11.2	0.4	8.4
2/24/2025 9:30	6.2	24.3	0.0	6.9	11.4	0.9	2/24/2025 9:30	6.2	13.4	0.0	7.1	11.3	1.9	9.9
2/24/2025 9:45	6.2	25.7	0.0	6.8	11.4	0.0	2/24/2025 9:45	6.2	13.4	0.0	7.0	11.2	0.1	8.1
2/24/2025 10:00	6.6	58.4	0.0	7.1	11.3	2.1	2/24/2025 10:00	6.2	13.3	0.0	7.1	11.3	0.6	8.6
2/24/2025 10:15	6.8	62.3	0.0	7.2	11.2	0.7	2/24/2025 10:15	6.3	13.4	0.0	7.1	11.3	0.0	8.0
2/24/2025 10:30	6.7	57.1	0.0	7.2	11.3	0.0	2/24/2025 10:30	6.3	13.1	0.0	7.1	11.2	0.1	8.1
2/24/2025 10:45	6.2	19.6	0.0	6.8	11.4	0.0	2/24/2025 10:45	6.3	12.0	0.0	7.1	11.2	0.6	8.6
2/24/2025 11:00	6.2	21.0	0.0	6.8	11.4	2.2	2/24/2025 11:00	6.3	13.1	0.0	7.0	11.2	0.1	8.1
2/24/2025 11:15	6.8	75.9	0.0	7.2	11.2	0.2	2/24/2025 11:15	6.3	13.1	0.0	7.1	11.2	0.4	8.4
2/24/2025 11:30	6.4	27.5	0.0	7.0	11.3	0.0	2/24/2025 11:30	6.3	11.7	0.0	7.1	11.2	2.0	10.0
2/24/2025 11:45	6.3	20.1	0.0	6.8	11.3	1.5	2/24/2025 11:45	6.4	12.9	0.0	7.1	11.2	0.1	8.1
2/24/2025 12:00	6.8	61.4	0.0	7.1	11.2	0.9	2/24/2025 12:00		13.0	0.0	7.1	11.2	1.2	9.2
2/24/2025 12:15	6.9	68.6	0.0	7.0	11.1	0.3	2/24/2025 12:15	6.4	12.9	0.0	7.0	11.2	0.6	8.6
2/24/2025 12:30	6.7	50.9	0.0	7.1	11.2	0.7	2/24/2025 12:30	6.4	11.6	0.0	7.1	11.1	0.1	8.1
2/24/2025 12:45	6.4	20.8	0.0	6.8	11.3	0.3	2/24/2025 12:45	6.4	12.9	0.0	7.1	11.1	0.3	8.3
2/24/2025 13:00	6.8	55.4	0.0	7.2	11.2	0.2	2/24/2025 13:00	6.5	11.6	0.0	7.0	11.1	0.1	8.1
2/24/2025 13:15	7.0	61.5	0.0	7.2	11.1	1.0	2/24/2025 13:15	6.5	12.9	0.0	7.1	11.1	0.3	8.3
2/24/2025 13:30	6.6	34.2	0.0	7.1	11.2	1.0	2/24/2025 13:30	6.5	12.9	0.0	7.1	11.1	0.0	8.0
2/24/2025 13:45	6.4	20.5	0.0	6.8	11.3	0.3	2/24/2025 13:45	6.5	12.8	0.0	7.1	11.1	0.2	8.2
2/24/2025 14:00	6.9	50.5	0.0	7.2		0.5	2/24/2025 14:00	6.5	12.9	0.0	7.1	11.1	1.0	9.0
2/24/2025 14:15	7.0	55.3	0.0	7.3	11.1	2.5	2/24/2025 14:15	6.6	12.6	0.0	7.1	11.1	0.0	8.0
2/24/2025 14:30	6.5	18.1	0.0	6.8	11.2	0.0	2/24/2025 14:30	6.6	11.5	0.0	7.1	11.1	0.5	8.5
2/24/2025 14:45	6.5	18.9	0.0	6.8	11.2	0.8	2/24/2025 14:45	6.6	12.8	0.0	6.9	11.1	0.2	8.2
2/24/2025 15:00	6.9	47.9	0.0	7.5	11.1	1.6	2/24/2025 15:00	6.6	12.7	0.0	7.1	11.1	1.1	9.1
2/24/2025 15:15	7.1	82.6	0.0	7.7	11.1	2.2	2/24/2025 15:15	6.6	12.8	0.0	7.1	11.1	0.8	8.8
2/24/2025 15:30	6.9	80.8	0.0	7.4	11.1	1.4	2/24/2025 15:30	6.5	12.7	0.0	7.1	11.1	0.4	8.4
2/24/2025 15:45	6.5	24.4	0.0	7.0	11.2	0.0	2/24/2025 15:45	6.5	12.8	0.0	7.1	11.1	0.2	8.2
2/24/2025 16:00	6.9	90.1	0.0	6.9	11.1	2.2	2/24/2025 16:00	6.5	12.6	0.0	7.1	11.1	0.6	8.6
2/24/2025 16:15	7.0	72.2	0.0	7.3	11.1	0.1	2/24/2025 16:15	6.5	13.0	0.0	7.1	11.0	0.0	8.0
2/24/2025 16:30	6.5	25.2	0.0	7.3	11.2	0.0	2/24/2025 16:30	6.5	13.0	0.0	7.1	11.1	0.0	8.0
2/24/2025 16:45	6.7	52.4	0.0	7.2	11.2	0.5	2/24/2025 16:45	6.5	13.3	0.0	7.1	11.1	1.5	9.5
2/24/2025 17:00	7.0	57.8	0.0	7.5	11.1	2.1	2/24/2025 17:00	6.4	13.3	0.0	7.1	11.1	0.6	8.6
2/24/2025 17:15	6.9	48.7	0.0	8.1	11.1	0.0	2/24/2025 17:15	6.4	13.8	0.0	7.1	11.1	1.5	9.5
2/24/2025 17:30	6.3	18.9	0.0	6.8	11.3	0.0	2/24/2025 17:30	6.4	13.4	0.0	7.1	11.1	0.2	8.2
2/24/2025 17:45	6.7	37.2	0.0	7.7	11.1	1.8	2/24/2025 17:45	6.4	13.5	0.0	7.1	11.1	0.6	8.6
2/24/2025 18:00	6.9	49.2	0.0	8.3	11.1	0.0	2/24/2025 18:00	6.3	13.4	0.0	7.1	11.1	0.0	8.0
2/24/2025 18:15	6.3	23.0	0.0	7.0	11.3	0.3	2/24/2025 18:15	6.3	12.2	0.0	7.0	11.1	0.1	8.1
2/24/2025 18:30	6.4	26.4	0.0	7.0	11.2	0.0	2/24/2025 18:30	6.3	13.4	0.0	7.0	11.1	0.6	8.6
2/24/2025 18:45	6.9	59.5	0.0	7.2	11.1	0.8	2/24/2025 18:45	6.3	13.7	0.0	7.1	11.1	0.8	8.8
2/24/2025 19:00	6.9	59.5	0.0	7.1	11.1	2.0	2/24/2025 19:00	6.3	16.1	0.0	7.2	11.1	6.8	14.8
2/24/2025 19:15	6.5	35.8	0.0	7.1	11.2	7.1	2/24/2025 19:15	6.3	16.2	0.0	7.2	11.1	11.1	16.1
2/24/2025 19:30	6.8	59.0	0.0	7.1	11.1	6.2	2/24/2025 19:30	6.3	14.7	0.0	7.2	11.1	4.9	12.9
2/24/2025 19:45	6.8	55.6	0.0	7.2	11.1	4.1	2/24/2025 19:45	6.3	15.2	0.0	7.1	11.1	0.7	8.7
2/24/2025 20:00	6.2	21.2	0.0	6.9	11.3	2.4	2/24/2025 20:00		13.6	0.0	7.1	11.1	0.4	8.4
2/24/2025 20:15	6.2	25.3	0.0	6.9	11.3	0.0	2/24/2025 20:15	6.2	15.1	0.0	7.1	11.1	0.9	8.9
2/24/2025 20:30	6.6	47.2	0.0	7.1	11.2	1.3	2/24/2025 20:30	6.2	13.7	0.0	7.1	11.1	0.4	8.4
2/24/2025 20:45	6.8	51.5	0.0	7.2	11.1	1.8	2/24/2025 20:45	6.2	15.2	0.0	7.1	11.1	0.5	8.5
2/24/2025 21:00	6.4	30.3	0.0	7.1	11.2	1.8	2/24/2025 21:00	6.2	15.3	0.0	7.1	11.1	0.4	8.4
2/24/2025 21:15	6.1	21.7	0.0	6.8	11.3	3.7	2/24/2025 21:15	6.2	14.9	0.0	7.1	11.1	1.5	9.5
2/24/2025 21:30	6.7	52.7	0.0	7.2	11.1	2.1	2/24/2025 21:30	6.2	15.1	0.0	7.1	11.1	4.0	12.0
2/24/2025 21:45	6.1	20.1	0.0	6.8	11.3	0.4	2/24/2025 21:45	6.2	15.0	0.0	7.1	11.1	0.1	8.1
2/24/2025 22:00	6.1	19.7	0.0	6.7	11.3	0.0	2/24/2025 22:00	6.2	13.5	0.0	7.1	11.1	0.2	8.2
2/24/2025 22:15	6.1	19.6	0.0	6.7	11.3	2.0	2/24/2025 22:15	6.2	15.2	0.0	7.1	11.1	1.9	9.9
2/24/2025 22:30	6.0	19.7	0.0	6.7	11.3	0.6	2/24/2025 22:30	6.2	15.8	0.0	7.1	11.1	0.7	8.7
2/24/2025 22:45	6.6	48.3	0.0	7.0	11.2	5.2	2/24/2025 22:45	6.2	16.3	0.0	7.2	11.1	0.5	8.5
2/24/2025 23:00	6.4	34.6	0.0	7.1	11.2	2.0	2/24/2025 23:00	6.1	16.6	0.0	7.2	11.1	3.3	11.3
2/24/2025 23:15	6.1	23.5	0.0	6.8	11.3	4.7	2/24/2025 23:15	6.1	17.0	0.0	7.2	11.1	2.0	10.0
2/24/2025 23:30	6.8	60.0	0.0	7.2	11.1	8.1	2/24/2025 23:30	6.1	17.1	0.0	7.1	11.1	5.6	13.6
2/24/2025 23:45	6.1	28.5	0.0	7.0	11.3	12.4	2/24/2025 23:45	6.1	20.5	0.0	7.2	11.1	20.1	25.1
2/25/2025 0:00	6.0	26.3	0.0	6.9	11.3	21.1	2/25/2025 0:00	6.1	21.0	0.0	7.3	11.1	28.8	33.8
2/25/2025 0:15	6.6	56.5	0.0	7.1	11.2	18.8	2/25/2025 0:15	6.1	21.7	0.0	7.3	11.1	13.2	18.2
2/25/2025 0:30	6.6	51.9	0.0	7.1	11.2	16.8	2/25/2025 0:30	6.1	23.0	0.0	7.3	11.2	10.8	15.8
2/25/2025 0:45	6.0	28.7	0.0	7.0	11.3	16.2	2/25/2025 0:45	6.1	21.7	0.0	7.3	11.1	17.5	22.5
2/25/2025 1:00	6.3	49.5	0.0	7.0	11.3	9.1	2/25/2025 1:00	6.1	25.1	0.0	7.4	11.1	13.9	18.9
2/25/2025 1:15	6.5	51.6	0.0	7.2	11.2	10.7	2/25/2025 1:15	6.1	22.7	0.0	7.4	11.2	12.9	17.9
2/25/2025 1:30	6.6	56.9	0.0	7.1	11.2	14.0	2/25/2025 1:30	6.1	24.9	0.0	7.4	11.2	9.4	14.4
2/25/2025 1:45	6.6	58.5	0.0	7.1	11.2	17.9	2/25/2025 1:45	6.1	25.1	0.0	7.4	11.2	9.8	14.8
2/25/2025 2:00	6.0	30.7	0.0	6.9	11.4	6.1	2/25/2025 2:00	6.0	24.4	0.0	7.4	11.2	7.9	15.9
2/25/2025 2:15	6.2	39.8	0.0	7.1	11.2	8.7	2/25/2025 2:15	6.0	21.9	0.0	7.3	11.2	3.9	11.9
2/25/2025 2:30	6.5	53.7	0.0	7.1	11.2	5.5	2/25/2025 2:30	6.0	24.1	0.0	7.3	11.2	7.8	15.8
2/25/2025 2:45	6.4	51.6	0.0	7.1	11.2	6.7	2/25/2025 2:45	6.0	23.6	0.0	7.3	11.2	23.2	28.2
2/25/2025 3:00	5.9	29.4	0.0	6.9	11.4	7.5	2/25/2025 3:00		21.1	0.0	7.3	11.2	6.0	14.0
2/25/2025 3:15	6.4	51.9	0.0	7.2	11.2	10.5	2/25/2025 3:15	6.0	23.3	0.0	7.2	11.2	4.0	12.0
2/25/2025 3:30	6.5	55.3	0.0	7.5	11.2	9.9	2/25/2025 3:30	6.0	22.6	0.0	7.3	11.2	3.9	11.9
2/25/2025 3:45	6.1	39.6	0.0	7.3	11.3	6.8	2/25/2025 3:45	6.0	19.8	0.0	7.3	11.2	4.5	12.5
2/25/2025 4:00	6.3	60.4	0.0	7.3	11.3	12.1	2/25/2025 4:00	6.0	21.9	0.0	7.3	11.2	3.7	11.7
2/25/2025 4:15	6.0	33.9	0.0	7.1	11.3	7.3	2/25/2025 4:15	6.0	21.9	0.0	7.3	11.2	1.8	9.8
2/25/2025 4:30	6.4	65.4	0.0	7.2	11.2	3.4	2/25/2025 4:30	6.0	20.8	0.0	7.3	11.2	2.9	10.9
2/25/2025 4:45	5.9	25.7	0.0	6.9	11.4	2.7	2/25/2025 4:45	6.0	18.9	0.0	7.2	11.2	1.4	9.4
2/25/2025 5:00	5.9	31.3	0.0	7.0	11.4	5.4	2/25/2025 5:00	5.9	20.3	0.0	7.3	11.2	2.3	10.3
2/25/2025 5:15	6.1	51.6	0.0	7.0	11.4	4.8	2/25/2025 5:15	5.9	20.4	0.0	7.3	11.3	3.1	11.1
2/25/2025 5:30	5.8	24.8	0.0	6.8	11.4	2.4	2/25/2025 5:30	5.9	19.7	0.0	7.3	11.3	8.2	13.2
2/25/2025 5:45	6.0	47.4	0.0	7.1	11.3	3.3	2/25/2025 5:45	5.9	19.4	0.0	7.3	11.3	2.6	10.6
2/25/2025 6:00	5.9	28.7	0.0	7.0	11.4	1.2	2/25/2025 6:00	5.9	18.6	0.0	7.2	11.3	4.0	12.0
2/25/2025 6:15	5.8	24.4	0.0	6.8	11.4	1.5	2/25/2025 6:15	5.9	18.4	0.0	7.2	11.3	6.3	14.3
2/25/2025 6:30	6.3	66.6	0.0	7.1	11.3	2.2	2/25/2025 6:30	5.9	17.8	0.0	7.2	11.3	1.0	9.0
2/25/2025 6:45	6.2	53.4	0.0	7.1	11.3	4.2	2/25/2025 6:45	5.9	17.5	0.0	7.2	11.2	0.8	8.8
2/25/2025 7:00	6.2	53.7	0.0	7.1	11.3	5.6	2/25/2025 7:00	5.9	16.8	0.0	7.2	11.2	0.4	8.4
2/25/2025 7:15	5.8	23.7	0.0	6.8	11.4	0.7	2/25/2025 7:15	5.9	16.8	0.0	7.2	11.2	0.8	8.8
2/25/2025 7:30	5.9	27.7	0.0	6.9	11.4	4.1	2/25/2025 7:30	5.9	16.5	0.0	7.1	11.3	0.2	8.2
2/25/2025 7:45	6.4	58.8	0.0	7.1	11.3	4.0	2/25/2025 7:45	5.9	16.3	0.0	7.2	11.3	2.5	10.5
2/25/2025 8:00	6.4	56.7	0.0	7.2	11.3	6.6	2/25/2025 8:00	5.9	15.9	0.0	7.1	11.3	0.7	8.7
2/25/2025 8:15	6.3	55.8	0.0	7.1	11.3	4.3	2/25/2025 8:15	5.9	16.3	0.0	7.1	11.3	6.4	14.4
2/25/2025 8:30	5.8	20.6	0.0	6.7	11.5	1.2	2/25/2025 8:30	5.9	16.0	0.0	7.2	11.3	2.3	10.3
2/25/2025 8:45	5.9	26.1	0.0	6.9	11.4	0.8	2/25/2025 8:45	5.9	14.4	0.0	7.1	11.3	0.5	8.5
2/25/2025 9:00	6.4	54.3	0.0	7.1	11.3	5.6	2/25/2025 9:00	5.9	15.8	0.0	7.1	11.3	1.0	9.0
2/25/2025 9:15	5.9	26.4	0.0	7.0	11.4	0.6	2/25/2025 9:15	5.9	15.8	0.0	7.1	11.3	6.1	14.1
2/25/2025 9:30	6.4	49.8	0.0	7.0	11.3	4.4	2/25/2025 9:30	5.9	15.5	0.0	7.1	11.3	0.4	8.4
2/25/2025 9:45	6.1	29.6	0.0	6.9	11.4	1.2	2/25/2025 9:45	6.0	15.4	0.0	7.1	11.3	1.8	9.8
2/25/2025 10:00	6.0	27.4	0.0	6.9	11.4	2.9	2/25/2025 10:00	6.0	15.1	0.0	7.1	11.3	1.9	9.9
2/25/2025 10:15	5.9	19.4	0.0	6.8	11.5	3.2	2/25/2025 10:15	6.0	15.0	0.0	7.1	11.3	0.5	8.5
2/25/2025 10:30	6.0	19.5	0.0	6.7	11.5	0.2	2/25/2025 10:30	6.1	14.6	0.0	7.1	11.3	5.3	13.3
2/25/2025 10:45	6.6	58.4	0.0	7.1	11.3	4.3	2/25/2025 10:45	6.1	14.6	0.0	7.1	11.3	0.0	8.0
2/25/2025 11:00	6.1	26.1	0.0	6.9	11.4	0.9	2/25/2025 11:00	6.2	14.5	0.0	7.1	11.3	0.4	8.4
2/25/2025 11:15	6.7	62.1	0.0	7.1	11.3	7.9	2/25/2025 11:15	6.2	14.4	0.0	7.1	11.2	0.3	8.3



2/25/2025 11:30	6.2	24.5	0.0	7.0	11.4	0.0	2/25/2025 11:30	6.2	14.1	0.0	7.1	11.3	1.5	9.5
2/25/2025 11:45	6.2	20.7	0.0	6.8	11.4	0.0	2/25/2025 11:45	6.2	14.2	0.0	7.1	11.2	1.3	9.3
2/25/2025 12:00	6.3	24.4	0.0	6.9	11.4	0.4	2/25/2025 12:00	6.4	13.8	0.0	7.1	11.2	1.4	9.4
2/25/2025 12:15	7.0	54.8	0.0	7.5	11.2	3.5	2/25/2025 12:15	6.5	14.0	0.0	7.1	11.2	0.5	8.5
2/25/2025 12:30	6.8	37.6	0.0	7.5	11.2	2.1	2/25/2025 12:30	6.5	13.8	0.0	7.1	11.2	2.8	10.8
2/25/2025 12:45	6.5	21.5	0.0	7.1	11.3	0.0	2/25/2025 12:45	6.5	13.6	0.0	7.0	11.2	4.2	12.2
2/25/2025 13:00	6.5	24.7	0.0	6.9	11.4	0.8	2/25/2025 13:00	6.4	13.4	0.0	7.1	11.2	0.1	8.1
2/25/2025 13:15	6.5	23.0	0.0	6.9	11.3	0.4	2/25/2025 13:15	6.5	13.5	0.0	7.1	11.2	0.8	8.8
2/25/2025 13:30	7.2	62.9	0.0	7.0	11.1	0.5	2/25/2025 13:30	6.7	13.2	0.0	7.1	11.2	1.6	9.6
2/25/2025 13:45	7.2	77.8	0.0	7.4	11.1	0.7	2/25/2025 13:45	6.7	13.4	0.0	7.1	11.2	0.4	8.4
2/25/2025 14:00	6.9	39.3	0.0	8.5	11.2	1.4	2/25/2025 14:00	6.7	13.3	0.0	7.1	11.2	3.5	11.5
2/25/2025 14:15	6.9	38.5	0.0	7.4	11.3	0.4	2/25/2025 14:15	6.8	13.2	0.0	7.1	11.1	2.6	10.6
2/25/2025 14:30	7.2	60.0	0.0	7.8	11.1	0.0	2/25/2025 14:30	6.8	13.0	0.0	7.1	11.1	0.5	8.5
2/25/2025 14:45	6.8	17.9	0.0	6.8	11.3	0.0	2/25/2025 14:45	6.9	13.1	0.0	7.1	11.1	1.3	9.3
2/25/2025 15:00	6.9	29.6	0.0	7.1	11.2	0.0	2/25/2025 15:00	6.8	12.8	0.0	7.1	11.1	0.2	8.2
2/25/2025 15:15	7.3	88.9	0.0	7.5	11.1	0.7	2/25/2025 15:15	6.8	13.0	0.0	7.1	11.1	0.4	8.4
2/25/2025 15:30	7.3	97.1	0.0	7.4	11.1	0.8	2/25/2025 15:30	6.8	12.8	0.0	7.1	11.1	2.3	10.3
2/25/2025 15:45	6.7	18.3	0.0	6.8	11.3	0.1	2/25/2025 15:45	6.8	12.9	0.0	7.1	11.1	2.0	10.0
2/25/2025 16:00	7.2	105.5	0.0	7.4	11.1	0.0	2/25/2025 16:00	6.8	12.7	0.0	7.1	11.1	1.5	9.5
2/25/2025 16:15	6.7	19.6	0.0	7.1	11.3	0.0	2/25/2025 16:15	6.8	12.8	0.0	7.0	11.1	0.3	8.3
2/25/2025 16:30	6.7	17.4	0.0	6.8	11.3	0.0	2/25/2025 16:30	6.8	12.5	0.0	7.1	11.1	0.3	8.3
2/25/2025 16:45	6.7	17.3	0.0	6.7	11.3	0.0	2/25/2025 16:45	6.8	12.8	0.0	7.1	11.1	2.5	10.5
2/25/2025 17:00	7.1	70.9	0.0	7.3	11.2	0.0	2/25/2025 17:00	6.8	12.7	0.0	7.0	11.1	3.0	11.0
2/25/2025 17:15	7.2	72.4	0.0	7.4	11.2	0.1	2/25/2025 17:15	6.8	12.7	0.0	7.1	11.1	0.0	8.0
2/25/2025 17:30	7.1	60.2	0.0	7.3	11.2	1.7	2/25/2025 17:30	6.7	12.5	0.0	7.1	11.2	3.4	11.4
2/25/2025 17:45	6.7	22.3	0.0	7.0	11.3	0.0	2/25/2025 17:45	6.7	12.7	0.0	7.0	11.1	0.7	8.7
2/25/2025 18:00	6.6	17.7	0.0	6.8	11.4	0.8	2/25/2025 18:00	6.7	12.6	0.0	7.0	11.2	1.3	9.3
2/25/2025 18:15	6.9	53.7	0.0	7.2	11.2	0.1	2/25/2025 18:15	6.7	12.7	0.0	7.0	11.2	0.9	8.9
2/25/2025 18:30	6.7	27.4	0.0	7.1	11.3	0.0	2/25/2025 18:30	6.6	12.6	0.0	7.0	11.2	0.5	8.5
2/25/2025 18:45	7.1	68.0	0.0	7.2	11.2	0.0	2/25/2025 18:45	6.6	11.5	0.0	7.0	11.2	0.2	8.2
2/25/2025 19:00	6.5	17.7	0.0	6.8	11.4	0.0	2/25/2025 19:00	6.6	12.6	0.0	6.9	11.2	0.3	8.3
2/25/2025 19:15	6.5	17.4	0.0	6.7	11.4	0.8	2/25/2025 19:15	6.6	12.6	0.0	7.0	11.2	3.2	11.2
2/25/2025 19:30	7.0	57.3	0.0	7.2	11.2	0.3	2/25/2025 19:30	6.6	11.7	0.0	7.0	11.2	0.2	8.2
2/25/2025 19:45	7.0	56.9	0.0	7.2	11.3	0.0	2/25/2025 19:45	6.6	12.6	0.0	7.0	11.2	0.5	8.5
2/25/2025 20:00	6.5	18.1	0.0	6.8	11.4	0.0	2/25/2025 20:00	6.5	11.3	0.0	7.0	11.2	1.6	9.6
2/25/2025 20:15	7.0	55.1	0.0	7.3	11.3	0.0	2/25/2025 20:15	6.5	12.6	0.0	6.9	11.2	0.8	8.8
2/25/2025 20:30	7.0	54.1	0.0	7.3	11.2	0.2	2/25/2025 20:30	6.5	12.4	0.0	7.0	11.2	1.4	9.4
2/25/2025 20:45	7.0	51.2	0.0	7.3	11.2	0.8	2/25/2025 20:45	6.5	12.2	0.0	7.0	11.2	0.1	8.1
2/25/2025 21:00	6.9	43.5	0.0	7.4	11.2	2.5	2/25/2025 21:00	6.5	12.5	0.0	7.0	11.2	0.5	8.5
2/25/2025 21:15	6.4	17.5	0.0	6.8	11.4	0.0	2/25/2025 21:15	6.5	12.7	0.0	7.0	11.2	0.6	8.6
2/25/2025 21:30	6.4	17.6	0.0	6.7	11.5	0.0	2/25/2025 21:30	6.5	12.4	0.0	7.0	11.3	0.6	8.6
2/25/2025 21:45	6.8	37.0	0.0	7.2	11.3	0.0	2/25/2025 21:45	6.5	11.4	0.0	7.0	11.3	0.1	8.1
2/25/2025 22:00	6.9	44.2	0.0	7.4	11.3	0.0	2/25/2025 22:00	6.4	12.6	0.0	7.0	11.3	3.9	11.9
2/25/2025 22:15	6.5	22.3	0.0	7.0	11.4	0.0	2/25/2025 22:15	6.5	12.6	0.0	7.0	11.3	1.0	9.0
2/25/2025 22:30	6.7	38.4	0.0	7.0	11.4	1.9	2/25/2025 22:30	6.5	12.4	0.0	7.0	11.3	2.4	10.4
2/25/2025 22:45	6.8	36.4	0.0	7.2	11.3	0.0	2/25/2025 22:45	6.5	12.9	0.0	7.0	11.2	2.1	10.1
2/25/2025 23:00	6.8	37.0	0.0	7.3	11.3	0.0	2/25/2025 23:00	6.5	13.0	0.0	7.0	11.2	0.2	8.2
2/25/2025 23:15	6.4	18.1	0.0	6.8	11.5	0.0	2/25/2025 23:15	6.4	13.4	0.0	7.0	11.3	0.8	8.8
2/25/2025 23:30	6.7	34.9	0.0	7.0	11.4	0.5	2/25/2025 23:30	6.5	14.0	0.0	7.1	11.3	0.4	8.4
2/25/2025 23:45	6.6	27.2	0.0	7.4	11.3	0.0	2/25/2025 23:45	6.5	14.7	0.0	7.1	11.2	0.6	8.6
2/26/2025 0:00	6.4	22.4	0.0	7.1	11.5	1.0	2/26/2025 0:00	6.4	14.5	0.0	7.1	11.3	2.3	10.3
2/26/2025 0:15	7.1	57.2	0.0	9.3	11.3	2.9	2/26/2025 0:15	6.5	14.4	0.0	7.1	11.3	2.2	10.2
2/26/2025 0:30	7.1	81.4	0.0	10.0	11.3	9.4	2/26/2025 0:30	6.4	14.3	0.0	7.1	11.3	0.1	8.1
2/26/2025 0:45	6.7	53.5	0.0	9.7	11.4	3.1	2/26/2025 0:45	6.4	14.5	0.0	6.9	11.3	0.9	8.9
2/26/2025 1:00	6.8	60.2	0.0	9.6	11.3	3.6	2/26/2025 1:00	6.4	15.0	0.0	7.1	11.3	1.8	9.8
2/26/2025 1:15	7.1	90.6	0.0	10.1	11.3	5.5	2/26/2025 1:15	6.4	15.8	0.0	7.1	11.3	0.9	8.9
2/26/2025 1:30	7.1	88.0	0.0	10.1	11.3	3.5	2/26/2025 1:30	6.4	15.5	0.0	7.1	11.3	2.1	10.1
2/26/2025 1:45	6.9	60.7	0.0	9.6	11.3	3.8	2/26/2025 1:45	6.4	15.2	0.0	7.1	11.3	1.4	9.4
2/26/2025 2:00	6.8	65.0	0.0	9.4	11.4	2.6	2/26/2025 2:00	6.4	14.9	0.0	7.1	11.3	1.7	9.7
2/26/2025 2:15	6.4	28.1	0.0	7.2	11.4	0.2	2/26/2025 2:15	6.4	15.2	0.0	7.1	11.3	0.9	8.9
2/26/2025 2:30	6.4	31.6	0.0	7.2	11.4	0.0	2/26/2025 2:30	6.4	14.7	0.0	7.1	11.3	2.1	10.1
2/26/2025 2:45	7.1	121.9	0.1	7.4	11.2	4.5	2/26/2025 2:45	6.4	14.8	0.0	7.0	11.3	0.4	8.4
2/26/2025 3:00	7.1	105.7	0.0	7.3	11.2	0.1	2/26/2025 3:00		14.6	0.0	7.1	11.3	0.3	8.3
2/26/2025 3:15	6.4	32.0	0.0	7.1	11.4	0.7	2/26/2025 3:15	6.4	14.6	0.0	7.0	11.3	2.3	10.3
2/26/2025 3:30	7.1	80.8	0.0	7.2	11.2	3.6	2/26/2025 3:30	6.4	14.2	0.0	7.1	11.3	1.5	9.5
2/26/2025 3:45	7.0	71.5	0.0	7.2	11.3	1.1	2/26/2025 3:45	6.4	14.3	0.0	7.1	11.3	0.3	8.3
2/26/2025 4:00	7.1	66.5	0.0	7.1	11.2	0.5	2/26/2025 4:00	6.4	14.2	0.0	7.0	11.3	0.8	8.8
2/26/2025 4:15	7.1	71.1	0.0	7.1	11.2	0.1	2/26/2025 4:15	6.4	14.6	0.0	6.9	11.3	3.2	11.2
2/26/2025 4:30	7.1	66.7	0.0	7.1	11.2	0.1	2/26/2025 4:30	6.4	14.4	0.0	7.1	11.3	0.7	8.7
2/26/2025 4:45	7.1	73.0	0.0	7.0	11.2	1.0	2/26/2025 4:45	6.4	14.6	0.0	7.1	11.3	2.4	10.4
2/26/2025 5:00	6.3	22.4	0.0	6.9	11.5	0.0	2/26/2025 5:00	6.4	14.2	0.0	7.1	11.3	0.2	8.2
2/26/2025 5:15	7.1	84.7	0.0	7.2	11.2	0.0	2/26/2025 5:15	6.4	14.4	0.0	7.0	11.3	2.8	10.8
2/26/2025 5:30	7.1	82.7	0.0	6.9	11.2	0.0	2/26/2025 5:30	6.4	13.9	0.0	7.1	11.4	2.9	10.9
2/26/2025 5:45	6.3	22.7	0.0	6.9	11.5	0.1	2/26/2025 5:45	6.4	14.5	0.0	7.1	11.3	0.5	8.5
2/26/2025 6:00	7.1	78.7	0.0	7.0	11.2	0.1	2/26/2025 6:00	6.4	14.2	0.0	7.1	11.4	1.5	9.5
2/26/2025 6:15	7.1	70.3	0.0	6.9	11.2	1.3	2/26/2025 6:15	6.3	14.7	0.0	7.1	11.3	0.6	8.6
2/26/2025 6:30	6.5	34.7	0.0	7.0	11.3	0.0	2/26/2025 6:30	6.3	13.9	0.0	7.1	11.4	2.0	10.0
2/26/2025 6:45	6.2	21.7	0.0	6.9	11.5	0.0	2/26/2025 6:45	6.3	14.2	0.0	7.0	11.4	0.4	8.4
2/26/2025 7:00	7.0	68.0	0.0	7.1	11.3	0.0	2/26/2025 7:00	6.2	13.9	0.0	7.1	11.4	7.8	15.8
2/26/2025 7:15	6.9	58.4	0.0	7.1	11.3	0.0	2/26/2025 7:15	6.2	14.2	0.0	7.0	11.4	2.1	10.1
2/26/2025 7:30	6.1	21.5	0.0	6.9	11.5	0.0	2/26/2025 7:30	6.2	13.4	0.0	7.0	11.4	2.5	10.5
2/26/2025 7:45	6.1	19.7	0.0	6.9	11.5	0.0	2/26/2025 7:45	6.1	13.7	0.0	6.9	11.4	0.4	8.4
2/26/2025 8:00	6.1	20.2	0.0	6.8	11.6	0.1	2/26/2025 8:00	6.1	13.1	0.0	7.1	11.4	1.2	9.2
2/26/2025 8:15	6.8	55.4	0.0	7.2	11.3	0.0	2/26/2025 8:15	6.1	13.6	0.0	7.0	11.4	0.7	8.7
2/26/2025 8:30	6.8	54.4	0.0	7.3	11.3	0.2	2/26/2025 8:30	6.1	13.3	0.0	7.0	11.5	0.4	8.4
2/26/2025 8:45	6.0	20.7	0.0	6.9	11.6	0.0	2/26/2025 8:45	6.0	13.6	0.0	7.0	11.4	0.3	8.3
2/26/2025 9:00	6.8	72.3	0.0	7.2	11.3	0.0	2/26/2025 9:00	6.1	13.2	0.0	7.0	11.4	0.8	8.8
2/26/2025 9:15	6.8	54.6	0.0	7.2	11.3	0.0	2/26/2025 9:15	6.1	13.4	0.0	7.0	11.4	0.1	8.1
2/26/2025 9:30	6.8	52.0	0.0	7.2	11.3	0.2	2/26/2025 9:30	6.1	13.2	0.0	6.9	11.5	7.4	15.4
2/26/2025 9:45	6.1	19.0	0.0	6.8	11.6	0.5	2/26/2025 9:45	6.1	13.2	0.0	7.0	11.4	1.3	9.3
2/26/2025 10:00	6.2	24.5	0.0	7.0	11.5	0.0	2/26/2025 10:00	6.2	13.0	0.0	7.1	11.4	1.5	9.5
2/26/2025 10:15	6.3	28.4	0.0	6.8	11.5	1.4	2/26/2025 10:15	6.2	13.3	0.0	7.0	11.4	0.5	8.5
2/26/2025 10:30	7.0	50.5	0.0	7.2	11.3	0.3	2/26/2025 10:30	6.3	12.8	0.0	7.1	11.4	0.7	8.7
2/26/2025 10:45	7.0	56.3	0.0	7.2	11.3	2.5	2/26/2025 10:45	6.3	13.2	0.0	7.1	11.4	1.1	9.1
2/26/2025 11:00	6.5	23.7	0.0	7.1	11.4	0.0	2/26/2025 11:00	6.4	12.9	0.0	7.1	11.4	0.5	8.5
2/26/2025 11:15	7.1	50.6	0.0	7.2	11.2	0.0	2/26/2025 11:15	6.4	12.9	0.0	7.1	11.3	0.2	8.2
2/26/2025 11:30	6.4	17.9	0.0	6.8	11.4	0.0	2/26/2025 11:30	6.5	12.8	0.0	7.0	11.3	1.9	9.9
2/26/2025 11:45	6.6	17.7	0.0	6.8	11.4	0.0	2/26/2025 11:45	6.6	13.0	0.0	7.0	11.3	0.0	8.0
2/26/2025 12:00	6.7	19.5	0.0	6.8	11.4	0.0	2/26/2025 12:00	6.6	12.7	0.0	7.1	11.3	5.9	13.9
2/26/2025 12:15	6.9	24.6	0.0	7.0	11.3	0.1	2/26/2025 12:15	6.7	13.0	0.0	7.0	11.3	0.7	8.7
2/26/2025 12:30	7.5	57.6	0.0	7.2	11.1	0.0	2/26/2025 12:30	6.8	12.8	0.0	7.1	11.2	2.0	10.0
2/26/2025 12:45	7.6	51.2	0.0	7.3	11.1	0.0	2/26/2025 12:45	6.8	13.3	0.0	7.1	11.2	1.3	9.3
2/26/2025 13:00	7.6	50.6	0.0	7.2	11.1	0.6	2/26/2025 13:00	6.8	12.4	0.0	7.1	11.2	0.2	8.2
2/26/2025 13:15	7.5	53.1	0.0	7.3	11.1	0.0	2/26/2025 13:15	6.8	12.8	0.0	7.0	11.2	0.2	8.2
2/26/2025 13:30	7.0	18.9	0.0	6.9	11.2	0.0	2/26/2025 13:30	6.9	12.6	0.0	7.1	11.2	1.0	9.0
2/26/2025 13:45	7.0	17.5	0.0	6.8	11.2	0.0	2/26/2025 13:45	6.9	12.8	0.0	7.0	11.1	0.1	8.1
2/26/2025 14:00	7.0	17.4	0.0	6.7	11.2	0.0	2/26/2025 14:00		12.6	0.0	7.0	11.1	1.3	9.3
2/26/2025 14:15	7.0	17.3	0.0	6.8	11.2	0.0	2/26/2025 14:15	7.0	12.7	0.0	7.0	11.1	0.8	8.8
2/26/2025 14:30	7.5	47.0	0.0	7.1	11.1	0.0	2/26/2025 14:30	7.0	12.4	0.0	7.1	11.1	0.3	8.3
2/26/2025 14:45	7.1	17.6	0.0	6.8	11.2	0.0	2/26/2025 14:45	7.1	12.5	0.0	7.1	11.1	1.0	9.0
2/26/2025 15:00	7.1	19.1	0.0	6.8	11.2	0.0	2/26/2025 15:00	7.1	12.4	0.0	7.1	11.1	0.6	8.6
2/26/2025 15:15	7.3	30.7	0.0	6.9	11.2	0.0	2/26/2025 15:15	7.1	12.7	0.0	7.0	11.1	0.9	8.9
2/26/2025 15:30	7.8	55.3	0.0	7.2	11.0	0.0	2/26/2025 15:30	7.1	12.3	0.0	7.0	11.1	1.2	9.2
2/26/2025 15:45	7.8	49.4	0.0	7.2	11.0	0.5	2/26/2025 15:45	7.1	12.8	0.0	7.1	11.1	0.6	8.6
2/26/2025 16:00	7.8	54.6	0.0	7.2	11.0	0.4	2/26/2025 16:00	7.1	12.3	0.0	7.1	11.1	2.8	10.8
2/26/2025 16:15	7.1	17.7	0.0	6.8	11.2	0.0	2/26/2025 16:15	7.1	12.6	0.0	7.0	11.1	0.6	8.6
2/26/2025 16:30	7.1	18.0	0.0	6.8	11.2	0.0	2/26/2025 16:30	7.1	12.5	0.0	7.0	11.1	2.8	10.8
2/26/2025 16:45	7.8	52.1	0.0	7.2	11.0	1.7	2/26/2025 16:45	7.1	12.5	0.0	7.1	11.1	0.0	8.0
2/26/2025 17:00	7.9	55.7	0.0	7.3	11.0	0.0	2/26/2025 17:00	7.2	12.4	0.0	7.0	11.1	1.4	9.4
2/26/2025 17:15	7.9	54.0	0.0	7.2	11.0	0.6	2/26/2025 17:15	7.2	12.5	0.0	7.1	11.1	0.1	8.1
2/26/2025 17:30	7.9	50.2	0.0	7.2	11.0	0.4	2/26/2025 17:30	7.1	12.4	0.0	7.0	11.1	1.4	9.4
2/26/2025 17:45	7.3	23.7	0.0	7.1	11.1	0.3	2/26/2025 17:45	7.1	12.5	0.0	7.0	11.1	1.1	9.1
2/26/2025 18:00	7.1	20.5	0.0	6.8	11.2	0.0	2/26/2025 18:00	7.1	12.3	0.0	7.1	11.1	0.6	8.6
2/26/2025 18:15	7.7	50.1	0.0	7.1	11.1	3.6	2/26/2025 18:15	7.1	12.5	0.0	7.0	11.1	0.1	8.1
2/26/2025 18:30	7.8	56.9	0.0	7.3	11.0	1.2	2/26/2025 18:30	7.1	12.3	0.0	7.1	11.1	0.7	8.7
2/26/2025 18:45	7.8	53.6	0.0	7.3	11.0	1.1	2/26/2025 18:45	7.0	12.6	0.0	7.0	11.1	0.1	8.1
2/26/2025 19:00	7.4	33.8	0.0	7.2	11.0	0.0	2/26/2025 19:00	7.0	12.2	0.0	7.0	11.1	1.4	9.4
2/26/2025 19:15	7.7	54.8	0.0	7.2	11.0	0.1	2/26/2025 19:15	6.9	12.8	0.0	7.0	11.1	1.8	9.8
2/26/2025 19:30	7.0	22.5	0.0	6.9	11.2	0.0	2/26/2025 19:30	6.9	12.3	0.0	7.0	11.1	0.5	8.5
2/26/2025 19:45	7.7	53.2	0.0	7.3	11.0	0.8	2/26/2025 19:45	6.8	12.4	0.0	7.0	11.1	0.7	8.7
2/26/2025 20:00	7.4	47.6	0.0	7.2	11.1	0.1	2/26/2025 20:00	6.8	12.1	0.0	7.0	11.2	1.5	9.5
2/26/2025 20:15	7.5	52.2	0.0	7.2	11.0	0.1	2/26/2025 20:15	6.7	12.5	0.0	7.0	11.1	0.8	8.8
2/26/2025 20:30	6.7	19.6	0.0	6.8	11.3	0.0	2/26/2025 20:30	6.7	12.3	0.0	6.9	11.2	1.5	9.5
2/26/2025 20:45	7.5	60.5	0.0	7.2	11.1	1.0	2/26/2025 20:45	6.7	12.4	0.0	7.0	11.2	0.1	8.1
2/26/2025 21:00	7.3	54.2	0.0	7.2	11.1	0.4	2/26/2025 21:00	6.6	12.3	0.0	7.0	11.2	0.0	8.0
2/26/2025 21:15	7.5	54.0	0.0	7.2	11.1	1.4	2/26/2025 21:15	6.6	12.6	0.0	6.9	11.2	0.4	8.4
2/26/2025 21:30	6.9	33.8	0.0	7.0	11.3	0.0	2/26/2025 21:30	6.6	12.2	0.0	7.0	11.2	0.6	8.6
2/26/2025 21:45	6.5	18.2	0.0	6.8	11.4	0.0	2/26/2025 21:45	6.5	12.6	0.0	7.0	11.2	0.3	8.3
2/26/2025 22:00	6.5	20.6	0.0	6.8	11.4	0.0	2/26/2025 22:00		12.2	0.0	7.0	11.2	0.7	8.7
2/26/2025 22:15	7.4	56.4	0.0	7.2	11.1	0.6	2/26/2025 22:15	6.5	12.2	0.0	7.0	11.2	1.6	9.6
2/26/2025 22:30	7.1	44.7	0.0	7.1	11.2	0.0	2/26/2025 22:30	6.4	12.2	0.0	7.0	11.3	0.7	8.7
2/26/2025 22:45	7.1	39.6	0.0	7.2	11.1	0.0	2/26/2025 22:45	6.4	12.3	0.0	7.0	11.2	1.3	9.3
2/26/2025 23:00	7.2	54.2	0.0	7.2	11.2	1.1	2/26/2025 23:00	6.4	12.0	0.0	7.0	11.2	0.0	8.0
2/26/2025 23:15	7.3	76.9	0.0	7.0	11.1	0.0	2/26/2025 23:15	6.3	12.3	0.0	7.0	11.3	0.2	8.2
2/26/2025 23:30	6.4	22.4	0.0	6.9	11.4	0.0	2/26/2025 23:30	6.3	12.0	0.0	7.0	11.3	0.0	8.0
2/26/2025 23:45	6.8	51.7	0.0	7.1	11.2	0.0	2/26/2025 23:45	6.3	12.2	0.0	6.9	11.3	0.3	8.3
2/27/2025 0:00	7.2	59.2	0.0	7.2	11.1	0.1	2/27/2025 0:00	6.2	12.1	0.0	7.0	11.3	0.6	8.6
2/27/2025 0:15	6.9	57.1	0.0	7.1	11.3	1.1	2/27/2025 0:15	6.2	12.7	0.0	7.0	11.3	0.4	8.4

2/27/2025 0:30	7.1	55.2	0.0	7.2	11.2	0.0	2/27/2025 0:30	6.2	11.9	0.0	7.0	11.3	3.1	11.1
2/27/2025 0:45	7.1	55.4	0.0	7.3	11.2	1.2	2/27/2025 0:45	6.2	12.2	0.0	6.9	11.3	0.3	8.3
2/27/2025 1:00	6.2	19.0	0.0	6.8	11.4	0.0	2/27/2025 1:00	6.2	12.1	0.0	7.0	11.3	0.7	8.7
2/27/2025 1:15	6.6	43.9	0.0	7.0	11.5	0.0	2/27/2025 1:15	6.1	12.4	0.0	6.9	11.3	1.4	9.4
2/27/2025 1:30	6.9	57.2	0.0	7.2	11.3	0.1	2/27/2025 1:30	6.1	12.0	0.0	7.0	11.4	0.0	8.0
2/27/2025 1:45	7.0	80.5	0.0	7.0	11.2	0.0	2/27/2025 1:45	6.1	12.3	0.0	7.0	11.3	0.5	8.5
2/27/2025 2:00	6.1	18.8	0.0	6.8	11.5	0.0	2/27/2025 2:00	6.1	12.0	0.0	7.0	11.3	1.5	9.5
2/27/2025 2:15	6.0	18.0	0.0	6.8	11.5	0.0	2/27/2025 2:15	6.1	12.3	0.0	7.0	11.3	0.3	8.3
2/27/2025 2:30	6.4	38.5	0.0	7.2	11.3	0.3	2/27/2025 2:30	6.0	11.9	0.0	7.0	11.4	0.3	8.3
2/27/2025 2:45	6.9	60.7	0.0	7.2	11.2	0.3	2/27/2025 2:45	6.0	12.0	0.0	6.9	11.4	3.3	11.3
2/27/2025 3:00	6.1	21.8	0.0	7.0	11.4	0.0	2/27/2025 3:00	6.0	12.0	0.0	7.0	11.4	0.3	8.3
2/27/2025 3:15	6.9	56.1	0.0	7.2	11.2	0.0	2/27/2025 3:15	5.9	12.1	0.0	7.0	11.4	0.1	8.1
2/27/2025 3:30	6.9	55.7	0.0	7.3	11.2	1.2	2/27/2025 3:30	5.9	12.0	0.0	7.0	11.4	3.4	11.4
2/27/2025 3:45	6.9	54.3	0.0	7.3	11.2	2.3	2/27/2025 3:45	6.0	12.0	0.0	7.0	11.4	0.7	8.7
2/27/2025 4:00	6.0	18.3	0.0	6.8	11.5	0.0	2/27/2025 4:00	6.0	11.7	0.0	7.0	11.4	1.4	9.4
2/27/2025 4:15	6.0	19.9	0.0	6.8	11.5	0.0	2/27/2025 4:15	6.0	12.1	0.0	7.0	11.3	0.5	8.5
2/27/2025 4:30	6.9	77.4	0.0	7.1	11.2	0.1	2/27/2025 4:30	6.0	11.8	0.0	7.0	11.4	1.2	9.2
2/27/2025 4:45	6.3	33.8	0.0	7.0	11.4	0.0	2/27/2025 4:45	6.0	12.0	0.0	7.0	11.3	0.9	8.9
2/27/2025 5:00	5.9	17.5	0.0	6.8	11.5	0.0	2/27/2025 5:00	6.0	11.9	0.0	7.0	11.4	0.3	8.3
2/27/2025 5:15	5.9	19.8	0.0	6.8	11.5	0.0	2/27/2025 5:15	6.0	12.2	0.0	7.0	11.3	0.0	8.0
2/27/2025 5:30	6.7	79.7	0.0	7.1	11.3	0.0	2/27/2025 5:30	6.0	11.8	0.0	7.0	11.4	0.2	8.2
2/27/2025 5:45	6.8	74.7	0.0	6.9	11.3	0.0	2/27/2025 5:45	6.0	12.0	0.0	7.0	11.3	2.6	10.6
2/27/2025 6:00	6.8	69.6	0.0	7.0	11.3	1.2	2/27/2025 6:00	6.0	11.9	0.0	7.0	11.4	1.8	9.8
2/27/2025 6:15	6.6	57.0	0.0	7.0	11.3	0.0	2/27/2025 6:15	6.0	12.0	0.0	7.0	11.3	0.5	8.5
2/27/2025 6:30	5.9	17.7	0.0	6.8	11.6	0.0	2/27/2025 6:30	6.0	11.8	0.0	7.0	11.4	1.4	9.4
2/27/2025 6:45	6.0	18.8	0.0	6.9	11.5	0.0	2/27/2025 6:45	6.0	12.0	0.0	7.0	11.3	0.2	8.2
2/27/2025 7:00	6.0	22.8	0.0	6.8	11.5	0.0	2/27/2025 7:00	6.0	11.9	0.0	7.0	11.4	0.6	8.6
2/27/2025 7:15	6.9	67.9	0.0	7.2	11.2	2.0	2/27/2025 7:15	6.0	12.0	0.0	7.0	11.4	0.5	8.5
2/27/2025 7:30	6.8	66.1	0.0	7.2	11.3	0.0	2/27/2025 7:30	6.0	11.8	0.0	7.1	11.4	0.0	8.0
2/27/2025 7:45	6.9	66.2	0.0	7.3	11.2	0.1	2/27/2025 7:45	6.0	12.3	0.0	7.0	11.3	0.1	8.1
2/27/2025 8:00	6.9	62.5	0.0	7.3	11.2	1.0	2/27/2025 8:00	6.0	11.9	0.0	6.9	11.3	2.1	10.1
2/27/2025 8:15	6.0	20.8	0.0	6.9	11.5	0.0	2/27/2025 8:15	6.0	12.0	0.0	7.0	11.3	1.6	9.6
2/27/2025 8:30	6.9	63.5	0.0	7.3	11.3	0.0	2/27/2025 8:30	6.0	11.8	0.0	7.0	11.4	0.0	8.0
2/27/2025 8:45	6.1	24.0	0.0	7.0	11.5	0.0	2/27/2025 8:45	6.0	11.9	0.0	7.0	11.3	0.1	8.1
2/27/2025 9:00	6.9	60.0	0.0	7.3	11.2	0.0	2/27/2025 9:00	6.0	11.8	0.0	7.0	11.4	0.0	8.0
2/27/2025 9:15	6.6	49.2	0.0	7.2	11.4	0.1	2/27/2025 9:15	6.1	11.9	0.0	7.0	11.4	0.4	8.4
2/27/2025 9:30	6.7	51.1	0.0	7.2	11.3	0.0	2/27/2025 9:30	6.1	11.8	0.0	7.0	11.4	0.1	8.1
2/27/2025 9:45	6.9	61.0	0.0	7.3	11.3	0.0	2/27/2025 9:45	6.1	12.0	0.0	7.0	11.4	0.0	8.0
2/27/2025 10:00	6.1	22.4	0.0	6.9	11.5	0.0	2/27/2025 10:00	6.1	11.7	0.0	7.0	11.4	0.9	8.9
2/27/2025 10:15	7.0	60.6	0.0	7.3	11.2	0.0	2/27/2025 10:15	6.2	11.9	0.0	6.9	11.4	0.5	8.5
2/27/2025 10:30	7.0	55.4	0.0	7.3	11.2	0.0	2/27/2025 10:30	6.2	11.8	0.0	7.0	11.3	0.0	8.0
2/27/2025 10:45	7.0	53.6	0.0	7.3	11.2	0.0	2/27/2025 10:45	6.3	11.9	0.0	7.0	11.3	0.7	8.7
2/27/2025 11:00	7.1	59.6	0.0	7.3	11.2	0.9	2/27/2025 11:00		11.7	0.0	7.0	11.3	0.1	8.1
2/27/2025 11:15	7.1	59.2	0.0	7.3	11.2	0.1	2/27/2025 11:15	6.3	11.9	0.0	6.9	11.3	0.0	8.0
2/27/2025 11:30	7.2	60.7	0.0	7.3	11.2	0.0	2/27/2025 11:30	6.4	11.8	0.0	7.0	11.3	0.1	8.1
2/27/2025 11:45	6.5	22.2	0.0	7.0	11.4	0.4	2/27/2025 11:45	6.4	11.9	0.0	7.0	11.3	0.6	8.6
2/27/2025 12:00	6.4	21.1	0.0	6.9	11.4	0.0	2/27/2025 12:00	6.4	11.9	0.0	7.0	11.3	4.4	12.4
2/27/2025 12:15	6.4	20.6	0.0	6.8	11.4	0.0	2/27/2025 12:15	6.5	11.9	0.0	7.0	11.3	0.4	8.4
2/27/2025 12:30	6.4	20.8	0.0	6.8	11.4	0.0	2/27/2025 12:30	6.5	11.7	0.0	7.0	11.3	0.6	8.6
2/27/2025 12:45	7.3	59.9	0.0	7.3	11.2	0.0	2/27/2025 12:45	6.5	11.9	0.0	7.0	11.2	1.4	9.4
2/27/2025 13:00	7.4	60.0	0.0	7.3	11.1	0.0	2/27/2025 13:00	6.5	11.8	0.0	7.0	11.3	0.9	8.9
2/27/2025 13:15	7.4	59.6	0.0	7.3	11.1	0.0	2/27/2025 13:15	6.6	11.9	0.0	7.0	11.2	0.4	8.4
2/27/2025 13:30	7.0	38.0	0.0	7.3	11.1	0.0	2/27/2025 13:30	6.6	11.7	0.0	7.0	11.3	0.0	8.0
2/27/2025 13:45	6.6	21.1	0.0	6.9	11.4	0.0	2/27/2025 13:45	6.6	11.9	0.0	7.0	11.2	3.3	11.3
2/27/2025 14:00	7.4	59.8	0.0	7.3	11.1	0.0	2/27/2025 14:00	6.6	11.8	0.0	7.1	11.2	0.8	8.8
2/27/2025 14:15	7.5	59.2	0.0	7.3	11.1	0.0	2/27/2025 14:15	6.6	11.9	0.0	7.1	11.2	1.2	9.2
2/27/2025 14:30	7.5	58.2	0.0	7.3	11.1	0.0	2/27/2025 14:30	6.7	11.7	0.0	7.1	11.2	0.0	8.0
2/27/2025 14:45	7.4	48.1	0.0	7.3	11.1	0.0	2/27/2025 14:45	6.7	11.8	0.0	7.0	11.2	2.6	10.6
2/27/2025 15:00	7.6	57.2	0.0	7.3	11.1	0.0	2/27/2025 15:00	6.7	11.8	0.0	7.1	11.2	3.1	11.1
2/27/2025 15:15	7.3	43.1	0.0	7.3	11.1	143.4	2/27/2025 15:15	6.7	11.8	0.0	7.1	11.2	0.2	8.2
2/27/2025 15:30	6.7	18.8	0.0	6.8	11.3	0.0	2/27/2025 15:30	6.7	11.9	0.0	7.0	11.2	1.5	9.5
2/27/2025 15:45	7.5	59.7	0.0	7.2	11.1	0.1	2/27/2025 15:45	6.7	11.9	0.0	7.0	11.2	0.1	8.1
2/27/2025 16:00	7.6	56.3	0.0	7.3	11.0	0.0	2/27/2025 16:00	6.8	11.6	0.0	7.1	11.2	0.5	8.5
2/27/2025 16:15	7.6	64.8	0.0	7.3	11.1	0.3	2/27/2025 16:15	6.8	11.9	0.0	7.0	11.2	0.2	8.2
2/27/2025 16:30	7.6	54.2	0.0	7.3	11.1	0.0	2/27/2025 16:30	6.8	11.8	0.0	7.1	11.2	0.7	8.7
2/27/2025 16:45	7.7	61.1	0.0	7.3	11.0	0.0	2/27/2025 16:45	6.8	11.8	0.0	7.0	11.2	0.0	8.0
2/27/2025 17:00	6.9	23.2	0.0	7.0	11.3	0.0	2/27/2025 17:00	6.8	11.7	0.0	7.1	11.2	0.0	8.0
2/27/2025 17:15	7.6	69.1	0.0	7.2	11.1	0.0	2/27/2025 17:15	6.8	11.9	0.0	7.0	11.2	0.0	8.0
2/27/2025 17:30	7.7	57.2	0.0	7.3	11.0	1.6	2/27/2025 17:30	6.8	11.8	0.0	7.0	11.1	0.6	8.6
2/27/2025 17:45	7.6	56.8	0.0	7.3	11.0	0.0	2/27/2025 17:45	6.8	12.1	0.0	7.0	11.1	0.2	8.2
2/27/2025 18:00	7.6	57.7	0.0	7.3	11.0	0.0	2/27/2025 18:00	6.8	11.6	0.0	6.9	11.2	1.1	9.1
2/27/2025 18:15	7.6	58.1	0.0	7.3	11.1	0.0	2/27/2025 18:15	6.8	12.0	0.0	7.0	11.1	0.2	8.2
2/27/2025 18:30	7.2	44.8	0.0	7.3	11.1	0.0	2/27/2025 18:30	6.8	11.7	0.0	7.0	11.1	3.0	11.0
2/27/2025 18:45	7.6	59.2	0.0	7.3	11.1	2.0	2/27/2025 18:45	6.8	11.9	0.0	7.0	11.1	0.2	8.2
2/27/2025 19:00	7.6	57.0	0.0	7.4	11.1	0.4	2/27/2025 19:00	6.8	11.6	0.0	7.0	11.2	0.0	8.0
2/27/2025 19:15	7.5	74.6	0.0	7.3	11.1	0.4	2/27/2025 19:15	6.7	12.0	0.0	7.0	11.1	0.0	8.0
2/27/2025 19:30	6.9	24.3	0.0	7.1	11.2	0.0	2/27/2025 19:30	6.7	11.9	0.0	7.0	11.1	1.2	9.2
2/27/2025 19:45	6.7	20.1	0.0	6.8	11.3	0.0	2/27/2025 19:45	6.7	12.0	0.0	7.0	11.1	0.0	8.0
2/27/2025 20:00	6.7	22.1	0.0	6.9	11.3	0.0	2/27/2025 20:00	6.7	11.9	0.0	7.0	11.2	0.0	8.0
2/27/2025 20:15	7.5	73.7	0.0	7.3	11.1	0.0	2/27/2025 20:15	6.7	12.1	0.0	6.9	11.1	2.4	10.4
2/27/2025 20:30	7.5	59.2	0.0	7.3	11.1	0.0	2/27/2025 20:30	6.7	11.8	0.0	7.0	11.2	0.7	8.7
2/27/2025 20:45	7.5	68.6	0.0	7.3	11.1	2.1	2/27/2025 20:45	6.7	12.0	0.0	6.9	11.2	0.0	8.0
2/27/2025 21:00	7.5	58.6	0.0	7.3	11.1	0.0	2/27/2025 21:00	6.7	12.0	0.0	6.9	11.2	3.2	11.2
2/27/2025 21:15	6.9	25.5	0.0	7.1	11.2	0.0	2/27/2025 21:15	6.7	12.0	0.0	7.0	11.2	0.0	8.0
2/27/2025 21:30	6.6	19.4	0.0	6.8	11.4	0.0	2/27/2025 21:30	6.7	11.9	0.0	7.0	11.2	0.0	8.0
2/27/2025 21:45	6.7	25.8	0.0	6.8	11.4	0.0	2/27/2025 21:45	6.7	12.0	0.0	7.0	11.1	0.1	8.1
2/27/2025 22:00	6.7	22.8	0.0	6.9	11.3	0.0	2/27/2025 22:00	6.6	11.9	0.0	7.0	11.2	0.3	8.3
2/27/2025 22:15	7.5	66.9	0.0	7.2	11.1	0.1	2/27/2025 22:15	6.6	12.0	0.0	7.0	11.2	0.0	8.0
2/27/2025 22:30	7.5	62.7	0.0	7.3	11.1	0.0	2/27/2025 22:30	6.6	11.8	0.0	7.0	11.2	0.1	8.1
2/27/2025 22:45	7.5	62.0	0.0	7.3	11.1	0.0	2/27/2025 22:45	6.6	12.0	0.0	7.0	11.2	0.3	8.3
2/27/2025 23:00	7.5	61.8	0.0	7.3	11.1	0.0	2/27/2025 23:00	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/27/2025 23:15	6.7	19.9	0.0	6.9	11.3	0.0	2/27/2025 23:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/27/2025 23:30	6.6	20.2	0.0	6.8	11.4	0.0	2/27/2025 23:30	6.6	11.9	0.0	7.0	11.2	0.7	8.7
2/27/2025 23:45	6.7	24.9	0.0	6.9	11.4	0.0	2/27/2025 23:45	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 0:00	6.7	26.7	0.0	6.9	11.3	0.0	2/28/2025 0:00	6.6	11.7	0.0	7.0	11.2	0.0	8.0
2/28/2025 0:15	7.6	65.2	0.0	7.3	11.1	0.0	2/28/2025 0:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 0:30	7.4	53.8	0.0	7.3	11.1	0.1	2/28/2025 0:30	6.6	11.7	0.0	7.0	11.2	1.0	9.0
2/28/2025 0:45	6.7	23.7	0.0	7.0	11.3	0.0	2/28/2025 0:45	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 1:00	7.5	62.8	0.0	7.3	11.1	0.0	2/28/2025 1:00	6.6	11.8	0.0	7.0	11.2	0.1	8.1
2/28/2025 1:15	7.6	64.2	0.0	7.4	11.1	0.0	2/28/2025 1:15	6.6	12.0	0.0	7.0	11.2	2.1	10.1
2/28/2025 1:30	7.5	68.9	0.0	7.3	11.1	0.0	2/28/2025 1:30	6.6	11.7	0.0	7.0	11.2	0.1	8.1
2/28/2025 1:45	7.6	64.6	0.0	7.3	11.1	0.1	2/28/2025 1:45	6.6	12.0	0.0	7.0	11.2	1.2	9.2
2/28/2025 2:00	7.6	64.3	0.0	7.3	11.1	0.0	2/28/2025 2:00	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 2:15	6.6	18.6	0.0	6.8	11.4	0.0	2/28/2025 2:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 2:30	6.6	20.8	0.0	6.8	11.4	0.0	2/28/2025 2:30	6.6	11.9	0.0	7.0	11.2	0.4	8.4
2/28/2025 2:45	7.4	64.5	0.0	7.2	11.1	0.0	2/28/2025 2:45	6.6	12.0	0.0	7.0	11.2	0.2	8.2
2/28/2025 3:00	6.7	23.3	0.0	6.9	11.3	0.0	2/28/2025 3:00	6.6	11.9	0.0	7.0	11.2	0.1	8.1
2/28/2025 3:15	6.6	21.3	0.0	6.9	11.4	0.0	2/28/2025 3:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 3:30	6.6	22.6	0.0	6.9	11.4	0.0	2/28/2025 3:30	6.6	11.8	0.0	7.0	11.2	0.0	8.0
2/28/2025 3:45	6.8	29.5	0.0	6.9	11.4	0.0	2/28/2025 3:45	6.6	12.0	0.0	7.0	11.2	1.2	9.2
2/28/2025 4:00	7.6	63.3	0.0	7.3	11.1	0.0	2/28/2025 4:00	6.6	11.7	0.0	7.1	11.2	0.1	8.1
2/28/2025 4:15	7.6	59.9	0.0	7.4	11.0	0.0	2/28/2025 4:15	6.6	12.0	0.0	7.0	11.2	0.0	8.0
2/28/2025 4:30	7.6	91.7	0.0	7.1	11.0	0.0	2/28/2025 4:30	6.6	11.8	0.0	7.1	11.2	0.0	8.0
2/28/2025 4:45	7.6	84.4	0.0	7.1	11.1	0.0	2/28/2025 4:45	6.6	12.0	0.0	7.0	11.2	0.5	8.5
2/28/2025 5:00	7.6	61.2	0.0	7.3	11.0	0.0	2/28/2025 5:00	6.6	11.7	0.0	7.1	11.2	0.0	8.0
2/28/2025 5:15	7.6	59.0	0.0	7.3	11.0	0.3	2/28/2025 5:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 5:30	6.6	20.9	0.0	6.9	11.3	0.0	2/28/2025 5:30	6.6	11.8	0.0	7.1	11.2	0.0	8.0
2/28/2025 5:45	7.5	58.3	0.0	7.2	11.1	1.3	2/28/2025 5:45	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 6:00	7.6	61.0	0.0	7.3	11.0	1.4	2/28/2025 6:00	6.6	11.8	0.0	7.0	11.2	0.0	8.0
2/28/2025 6:15	7.6	61.5	0.0	7.4	11.0	1.2	2/28/2025 6:15	6.6	11.9	0.0	7.0	11.2	0.5	8.5
2/28/2025 6:30	6.7	23.7	0.0	7.0	11.3	0.0	2/28/2025 6:30	6.6	11.9	0.0	7.1	11.2	0.0	8.0
2/28/2025 6:45	6.7	26.3	0.0	7.0	11.3	0.0	2/28/2025 6:45	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 7:00	7.6	81.7	0.0	7.3	11.0	0.0	2/28/2025 7:00	6.6	11.8	0.0	7.0	11.2	0.3	8.3
2/28/2025 7:15	7.7	78.7	0.0	7.3	11.0	0.0	2/28/2025 7:15	6.6	11.9	0.0	7.0	11.2	0.1	8.1
2/28/2025 7:30	7.7	70.4	0.0	7.4	11.0	0.4	2/28/2025 7:30	6.5	11.9	0.0	7.1	11.2	0.0	8.0
2/28/2025 7:45	7.7	68.6	0.0	7.4	11.0	0.3	2/28/2025 7:45	6.5	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 8:00	7.6	72.8	0.0	7.4	11.0	1.2	2/28/2025 8:00	6.5	11.7	0.0	7.0	11.2	0.2	8.2
2/28/2025 8:15	7.3	46.2	0.0	7.3	11.1	0.0	2/28/2025 8:15	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 8:30	7.6	63.9	0.0	7.4	11.0	0.0	2/28/2025 8:30	6.6	11.8	0.0	7.0	11.2	0.0	8.0
2/28/2025 8:45	7.6	94.0	0.0	7.1	11.0	0.3	2/28/2025 8:45	6.6	11.9	0.0	7.1	11.2	0.0	8.0
2/28/2025 9:00	6.6	19.1	0.0	6.9	11.3	0.0	2/28/2025 9:00	6.6	11.8	0.0	7.1	11.2	0.1	8.1
2/28/2025 9:15	6.7	28.7	0.0	6.8	11.4	0.0	2/28/2025 9:15	6.6	11.9	0.0	7.1	11.2	0.0	8.0
2/28/2025 9:30	7.6	73.5	0.0	7.2	11.0	0.0	2/28/2025 9:30	6.6	11.7	0.0	7.1	11.2	0.0	8.0
2/28/2025 9:45	7.6	63.7	0.0	7.3	11.0	0.0	2/28/2025 9:45	6.6	11.9	0.0	7.0	11.2	0.0	8.0
2/28/2025 10:00	7.6	61.0	0.0	7.3	11.0	0.0	2/28/2025 10:00	6.6	11.7	0.0	7.0	11.2	0.1	8.1
2/28/2025 10:15	7.7	58.7	0.0	7.3	11.0	0.0	2/28/2025 10:15	6.7	11.9	0.0	7.1	11.2	0.1	8.1
2/28/2025 10:30	6.9	21.5	0.0	6.9	11.3	0.0	2/28/2025 10:30	6.7	11.8	0.0	7.1	11.2	0.0	8.0
2/28/2025 10:45	7.7	61.0	0.0	7.3	11.0	1.1	2/28/2025 10:45	6.8	11.9	0.0	7.1	11.2	0.0	8.0
2/28/2025 11:00	7.6	50.3	0.0	7.3	11.0	0.0	2/28/2025 11:00	6.8	11.7	0.0	7.1	11.1	0.0	8.0
2/28/2025 11:15	8.0	69.9	0.0	7.3	11.0	0.0	2/28/2025 11:15	6.9	11.9	0.0	7.1	11.1	0.0	8.0
2/28/2025 11:30	8.0	66.2	0.0	7.3	10.9	0.2	2/28/2025 11:30	7.0	11.8	0.0	7.1	11.1	0.0	8.0
2/28/2025 11:45	8.1	59.6	0.0	7.3	10.9	0.0	2/28/2025 11:45	7.0	11.9	0.0	7.1	11.1	0.0	8.0
2/28/2025 12:00	8.0	50.3	0.0	7.3	10.9	1.8	2/28/2025 12:00	7.1	11.8	0.0	7.1	11.1	0.2	8.2
2/28/2025 12:15	7.3	23.5	0.0	6.9	11.1	0.0	2/28/2025 12:15	7.1	11.9	0.0	7.1	11.1	0.0	8.0
2/28/2025 12:30	8.3	63.2	0.0	7.3	10.9	0.0	2/28/2025 12:30	7.2	11.8	0.0	7.1	11.1	0.0	8.0
2/28/2025 12:45	8.4	70.7	0.0	7.4	10.8	0.8	2/28/2025 12:45	7.3	11.8	0.0	7.1	11.0	0.0	8.0
2/28/2025 13:00	7.4	18.1	0.0	6.9	11.1	0.0	2/28/2025 13:00	7.3	11.7	0.0	7.1	11.0	0.0	8.0
2/28/2025 13:15	7.6	21.2	0.0	6.9	11.1	0.0	2/28/2025 13:15	7.5	11.8	0.0	7.1	11.0	0.0	8.0

2/28/2025 13:30	8.7	63.5	0.0	7.4	10.7	0.0	2/28/2025 13:30	7.6	11.7	0.0	7.1	11.0	0.0	8.0
2/28/2025 13:45	8.8	66.3	0.0	7.4	10.7	0.0	2/28/2025 13:45	7.6	11.8	0.0	7.1	10.9	0.0	8.0
2/28/2025 14:00	8.9	62.3	0.0	7.4	10.7	0.8	2/28/2025 14:00	7.7	11.7	0.0	7.1	10.9	0.0	8.0
2/28/2025 14:15	8.9	66.1	0.0	7.4	10.7	0.0	2/28/2025 14:15	7.7	11.8	0.0	7.1	10.9	0.0	8.0
2/28/2025 14:30	8.9	59.1	0.0	7.3	10.7	0.1	2/28/2025 14:30	7.8	11.7	0.0	7.1	10.9	0.0	8.0
2/28/2025 14:45	8.9	59.5	0.0	7.4	10.7	0.3	2/28/2025 14:45	7.8	11.7	0.0	7.1	10.8	0.0	8.0
2/28/2025 15:00	9.0	64.1	0.0	7.4	10.6	0.1	2/28/2025 15:00	7.8	11.6	0.0	7.1	10.8	0.0	8.0
2/28/2025 15:15	8.1	18.8	0.0	6.9	10.9	0.0	2/28/2025 15:15	7.8	11.7	0.0	7.0	10.8	0.0	8.0
2/28/2025 15:30	8.1	21.1	0.0	6.9	10.9	0.0	2/28/2025 15:30	7.9	11.6	0.0	7.1	10.8	0.0	8.0
2/28/2025 15:45	8.9	61.1	0.0	7.4	10.6	0.8	2/28/2025 15:45	7.9	11.7	0.0	7.1	10.8	0.0	8.0
2/28/2025 16:00	9.0	66.6	0.0	7.4	10.6	0.0	2/28/2025 16:00	7.9	11.5	0.0	7.1	10.8	0.0	8.0
2/28/2025 16:15	9.0	62.1	0.0	7.4	10.6	1.3	2/28/2025 16:15	7.9	11.7	0.0	7.1	10.8	0.3	8.3
2/28/2025 16:30	8.9	63.9	0.0	7.4	10.6	0.2	2/28/2025 16:30	7.9	11.6	0.0	7.1	10.8	0.0	8.0
2/28/2025 16:45	8.0	19.9	0.0	7.0	10.9	0.0	2/28/2025 16:45	7.8	11.7	0.0	7.1	10.8	0.0	8.0
2/28/2025 17:00	7.8	20.2	0.0	6.8	11.0	0.0	2/28/2025 17:00	7.8	11.6	0.0	7.1	10.8	0.0	8.0
2/28/2025 17:15	8.6	69.5	0.0	7.3	10.8	0.0	2/28/2025 17:15	7.7	11.7	0.0	7.0	10.8	0.0	8.0
2/28/2025 17:30	8.7	60.8	0.0	7.3	10.7	0.0	2/28/2025 17:30	7.7	11.6	0.0	7.0	10.9	0.0	8.0
2/28/2025 17:45	8.7	57.8	0.0	7.3	10.7	0.0	2/28/2025 17:45	7.7	11.7	0.0	7.1	10.8	0.1	8.1
2/28/2025 18:00	8.4	48.0	0.0	7.3	10.7	0.1	2/28/2025 18:00	7.6	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 18:15	7.6	19.2	0.0	6.9	11.0	0.0	2/28/2025 18:15	7.6	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 18:30	7.6	22.7	0.0	6.9	11.0	2.8	2/28/2025 18:30	7.5	11.6	0.0	7.0	10.9	0.0	8.0
2/28/2025 18:45	7.6	22.2	0.0	6.9	11.0	0.0	2/28/2025 18:45	7.5	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 19:00	8.5	61.3	0.0	7.3	10.8	0.2	2/28/2025 19:00	7.5	11.6	0.0	7.0	10.9	0.0	8.0
2/28/2025 19:15	8.3	61.2	0.0	7.3	10.8	0.0	2/28/2025 19:15	7.5	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 19:30	8.6	64.3	0.0	7.3	10.8	0.0	2/28/2025 19:30	7.4	11.7	0.0	7.1	10.9	0.0	8.0
2/28/2025 19:45	7.5	18.5	0.0	6.9	11.1	0.0	2/28/2025 19:45	7.4	11.8	0.0	7.0	10.9	0.0	8.0
2/28/2025 20:00	7.4	21.6	0.0	6.9	11.0	0.0	2/28/2025 20:00	7.4	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 20:15	8.2	54.3	0.0	7.3	10.8	0.0	2/28/2025 20:15	7.3	11.8	0.0	7.0	10.9	1.0	9.0
2/28/2025 20:30	8.4	64.7	0.0	7.3	10.8	0.1	2/28/2025 20:30	7.3	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 20:45	8.4	64.7	0.0	7.4	10.8	0.0	2/28/2025 20:45	7.3	11.8	0.0	7.0	10.9	0.0	8.0
2/28/2025 21:00	8.4	65.0	0.0	7.4	10.8	0.0	2/28/2025 21:00	7.2	11.7	0.0	7.0	10.9	0.0	8.0
2/28/2025 21:15	8.2	58.6	0.0	7.4	10.8	1.1	2/28/2025 21:15	7.2	11.8	0.0	7.0	10.9	0.0	8.0
2/28/2025 21:30	7.2	19.8	0.0	6.9	11.1	0.0	2/28/2025 21:30	7.2	11.7	0.0	7.0	11.0	0.0	8.0
2/28/2025 21:45	7.2	22.1	0.0	6.9	11.1	0.0	2/28/2025 21:45	7.1	11.8	0.0	7.0	11.0	0.0	8.0
2/28/2025 22:00	8.1	64.3	0.0	7.2	10.9	1.0	2/28/2025 22:00		11.5	0.0	7.0	11.0	0.0	8.0
2/28/2025 22:15	8.2	60.3	0.0	7.3	10.8	0.0	2/28/2025 22:15	7.1	11.8	0.0	7.0	10.9	0.4	8.4
2/28/2025 22:30	8.2	60.9	0.0	7.4	10.8	0.0	2/28/2025 22:30	7.0	11.6	0.0	7.1	11.0	0.0	8.0
2/28/2025 22:45	8.0	53.5	0.0	7.4	10.9	0.2	2/28/2025 22:45	7.0	11.7	0.0	7.0	11.0	0.0	8.0
2/28/2025 23:00	7.7	39.0	0.0	7.3	10.9	0.0	2/28/2025 23:00	7.0	11.5	0.0	7.0	11.0	0.0	8.0
2/28/2025 23:15	7.8	59.0	0.0	7.3	11.0	4.9	2/28/2025 23:15	7.0	11.8	0.0	7.0	11.0	0.0	8.0
2/28/2025 23:30	8.2	66.4	0.0	7.5	10.8	0.0	2/28/2025 23:30	6.9	11.7	0.0	7.1	11.0	0.0	8.0
2/28/2025 23:45	8.0	58.9	0.0	7.5	10.8	1.1	2/28/2025 23:45	6.9	11.8	0.0	7.0	11.0	0.0	8.0
3/01/2025 0:00	8.2	67.1	0.0	7.5	10.8	0.1	3/01/2025 0:00	6.9	11.7	0.0	7.0	11.0	0.0	8.0
3/01/2025 0:15	8.1	87.6	0.0	7.4	10.8	0.0	3/01/2025 0:15	6.9	11.8	0.0	7.0	11.0	0.0	8.0
3/01/2025 0:30	7.4	46.0	0.0	7.3	11.0	0.1	3/01/2025 0:30	6.8	11.7	0.0	7.1	11.0	0.0	8.0
3/01/2025 0:45	7.2	45.8	0.0	7.0	11.2	0.8	3/01/2025 0:45	6.8	11.8	0.0	7.0	11.0	0.0	8.0
3/01/2025 1:00	8.0	90.3	0.0	7.2	10.8	0.1	3/01/2025 1:00	6.8	11.7	0.0	7.0	11.0	0.0	8.0
3/01/2025 1:15	8.0	91.5	0.0	7.1	10.8	0.0	3/01/2025 1:15	6.7	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 1:30	6.9	22.6	0.0	7.1	11.0	0.0	3/01/2025 1:30	6.7	11.7	0.0	7.0	11.1	0.0	8.0
3/01/2025 1:45	7.8	79.4	0.0	7.2	10.9	0.2	3/01/2025 1:45	6.7	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 2:00	7.1	33.0	0.0	7.2	11.0	0.0	3/01/2025 2:00	6.6	11.7	0.0	7.0	11.1	0.0	8.0
3/01/2025 2:15	6.8	25.3	0.0	7.0	11.2	0.0	3/01/2025 2:15	6.6	11.8	0.0	7.0	11.1	0.2	8.2
3/01/2025 2:30	7.9	78.1	0.0	7.3	10.9	2.0	3/01/2025 2:30	6.6	11.6	0.0	7.0	11.1	0.0	8.0
3/01/2025 2:45	7.9	84.3	0.0	7.3	10.9	2.1	3/01/2025 2:45	6.6	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 3:00	7.9	83.7	0.0	7.2	10.9	2.6	3/01/2025 3:00	6.6	11.8	0.0	7.1	11.1	0.0	8.0
3/01/2025 3:15	6.8	24.0	0.0	7.1	11.1	0.0	3/01/2025 3:15	6.6	11.8	0.0	7.1	11.1	0.0	8.0
3/01/2025 3:30	6.6	18.3	0.0	6.8	11.3	0.0	3/01/2025 3:30	6.6	11.7	0.0	7.1	11.1	0.0	8.0
3/01/2025 3:45	7.8	81.6	0.0	7.3	10.9	3.3	3/01/2025 3:45	6.5	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 4:00	7.9	76.9	0.0	7.3	10.9	3.2	3/01/2025 4:00	6.5	11.7	0.0	7.0	11.1	0.0	8.0
3/01/2025 4:15	7.7	76.6	0.0	7.2	10.9	2.3	3/01/2025 4:15	6.5	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 4:30	7.7	71.6	0.0	7.3	10.8	2.4	3/01/2025 4:30	6.5	11.7	0.0	7.0	11.1	0.0	8.0
3/01/2025 4:45	6.6	21.8	0.0	6.9	11.3	0.0	3/01/2025 4:45	6.4	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 5:00	7.6	74.0	0.0	7.2	10.9	2.3	3/01/2025 5:00	6.4	11.7	0.0	7.1	11.1	0.0	8.0
3/01/2025 5:15	7.5	64.5	0.0	7.3	11.0	2.7	3/01/2025 5:15	6.4	11.8	0.0	7.0	11.1	0.0	8.0
3/01/2025 5:30	6.7	27.0	0.0	7.1	11.1	0.0	3/01/2025 5:30	6.3	11.7	0.0	7.1	11.1	0.0	8.0
3/01/2025 5:45	7.5	77.3	0.0	7.2	11.0	1.1	3/01/2025 5:45	6.3	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 6:00	7.6	78.2	0.0	7.2	11.0	1.2	3/01/2025 6:00	6.3	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 6:15	7.1	58.1	0.0	7.1	11.1	1.0	3/01/2025 6:15	6.3	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 6:30	7.6	75.6	0.0	7.2	10.9	1.0	3/01/2025 6:30	6.2	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 6:45	7.6	72.4	0.0	7.3	11.0	1.3	3/01/2025 6:45	6.2	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 7:00	7.6	82.1	0.0	7.2	10.9	0.1	3/01/2025 7:00	6.2	11.7	0.0	7.0	11.2	0.0	8.0
3/01/2025 7:15	6.9	44.1	0.0	7.2	11.1	0.0	3/01/2025 7:15	6.2	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 7:30	6.4	27.2	0.0	7.0	11.3	0.0	3/01/2025 7:30	6.2	11.7	0.0	7.0	11.2	0.0	8.0
3/01/2025 7:45	7.6	82.8	0.0	7.2	10.9	0.3	3/01/2025 7:45	6.2	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 8:00	7.6	82.1	0.0	7.2	10.9	0.0	3/01/2025 8:00	6.1	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 8:15	7.6	74.6	0.0	7.3	11.0	0.0	3/01/2025 8:15	6.1	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 8:30	7.4	70.8	0.0	7.2	11.1	0.0	3/01/2025 8:30	6.2	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 8:45	7.5	72.8	0.0	7.3	11.0	0.0	3/01/2025 8:45	6.2	11.8	0.0	7.0	11.2	0.0	8.0
3/01/2025 9:00	7.6	73.1	0.0	7.4	11.0	0.0	3/01/2025 9:00	6.2	11.6	0.0	7.0	11.2	0.0	8.0
3/01/2025 9:15	6.3	19.2	0.0	6.9	11.3	0.0	3/01/2025 9:15	6.2	11.8	0.0	7.1	11.2	0.0	8.0
3/01/2025 9:30	6.3	17.9	0.0	6.8	11.4	0.0	3/01/2025 9:30	6.3	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 9:45	6.3	19.4	0.0	6.8	11.3	0.0	3/01/2025 9:45	6.3	11.8	0.0	7.1	11.2	0.0	8.0
3/01/2025 10:00	6.4	20.5	0.0	6.8		0.0	3/01/2025 10:00	6.4	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 10:15	6.4	20.8	0.0	6.9	11.3	0.0	3/01/2025 10:15	6.4	11.8	0.0	7.1	11.2	0.0	8.0
3/01/2025 10:30	6.5	22.7	0.0	6.9	11.3	0.0	3/01/2025 10:30	6.4	11.7	0.0	7.1	11.2	0.0	8.0
3/01/2025 10:45	6.6	22.6	0.0	6.9	11.3	0.0	3/01/2025 10:45	6.5	11.8	0.0	7.1	11.2	0.0	8.0
3/01/2025 11:00	6.7	22.5	0.0	6.9	11.2	0.0	3/01/2025 11:00	6.6	11.6	0.0	7.1	11.1	0.0	8.0
3/01/2025 11:15	7.9	75.0	0.0	7.3	10.9	0.0	3/01/2025 11:15	6.6	11.8	0.0	7.1	11.1	0.0	8.0
3/01/2025 11:30	8.0	73.3	0.0	7.3	10.9	0.0	3/01/2025 11:30	6.7	11.7	0.0	7.1	11.1	0.0	8.0
3/01/2025 11:45	8.2	72.9	0.0	7.4	10.8	0.0	3/01/2025 11:45	6.8	11.8	0.0	7.1	11.1	0.0	8.0
3/01/2025 12:00	7.3	25.3	0.0	7.0	11.0	0.0	3/01/2025 12:00	6.9	11.7	0.0	7.1	11.0	0.0	8.0
3/01/2025 12:15	8.3	72.9	0.0	7.4	10.8	0.0	3/01/2025 12:15	6.9	11.8	0.0	7.1	11.0	0.0	8.0
3/01/2025 12:30	8.2	64.2	0.0	7.3	10.8	0.0	3/01/2025 12:30	7.0	11.6	0.0	7.1	11.0	0.0	8.0
3/01/2025 12:45	7.5	23.3	0.0	7.0	11.0	0.0	3/01/2025 12:45	7.1	11.7	0.0	7.1	11.0	0.0	8.0
3/01/2025 13:00	8.4	71.4	0.0	7.4	10.7	0.0	3/01/2025 13:00	7.2	11.7	0.0	7.1	11.0	1.0	9.0
3/01/2025 13:15	8.6	70.7	0.0	7.4	10.7	0.0	3/01/2025 13:15	7.3	11.8	0.0	7.1	10.9	0.0	8.0
3/01/2025 13:30	8.5	61.1	0.0	7.4	10.7	0.0	3/01/2025 13:30	7.4	11.7	0.0	7.1	10.9	0.0	8.0
3/01/2025 13:45	8.7	69.3	0.0	7.4	10.6	0.0	3/01/2025 13:45	7.4	11.8	0.0	7.1	10.9	0.1	8.1
3/01/2025 14:00	8.8	68.8	0.0	7.4	10.6	0.0	3/01/2025 14:00	7.5	11.7	0.0	7.1	10.9	0.2	8.2
3/01/2025 14:15	8.8	68.6	0.0	7.4	10.6	0.0	3/01/2025 14:15	7.5	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 14:30	8.6	60.5	0.0	7.4	10.6	0.0	3/01/2025 14:30	7.5	11.6	0.0	7.1	10.9	0.0	8.0
3/01/2025 14:45	7.8	21.2	0.0	6.9	10.9	0.0	3/01/2025 14:45	7.5	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 15:00	8.6	67.7	0.0	7.3	10.7	0.0	3/01/2025 15:00	7.5	11.6	0.0	7.1	10.8	0.0	8.0
3/01/2025 15:15	8.5	59.7	0.0	7.4	10.7	0.0	3/01/2025 15:15	7.5	11.7	0.0	7.1	10.8	0.0	8.0
3/01/2025 15:30	8.7	68.4	0.0	7.4	10.6	0.0	3/01/2025 15:30	7.5	12.5	0.0	7.1	10.8	0.0	8.0
3/01/2025 15:45	8.6	68.2	0.0	7.4	10.7	0.0	3/01/2025 15:45	7.4	15.4	0.0	7.1	10.8	0.0	8.0
3/01/2025 16:00	8.6	68.3	0.0	7.4	10.7	0.0	3/01/2025 16:00	7.4	13.0	0.0	7.1	10.8	0.0	8.0
3/01/2025 16:15	8.4	59.3	0.0	7.4	10.7	0.0	3/01/2025 16:15	7.4	11.8	0.0	7.0	10.8	0.0	8.0
3/01/2025 16:30	8.6	69.1	0.0	7.4	10.7	0.3	3/01/2025 16:30	7.4	11.8	0.0	7.0	10.8	0.2	8.2
3/01/2025 16:45	8.5	68.6	0.0	7.4	10.7	0.0	3/01/2025 16:45	7.4	11.7	0.0	7.1	10.8	0.4	8.4
3/01/2025 17:00	8.5	68.1	0.0	7.4	10.7	0.0	3/01/2025 17:00	7.4	11.7	0.0	7.1	10.8	0.0	8.0
3/01/2025 17:15	7.6	20.5	0.0	7.0	10.9	0.0	3/01/2025 17:15	7.4	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 17:30	7.6	23.6	0.0	7.0	10.9	0.0	3/01/2025 17:30	7.4	11.7	0.0	7.1	10.8	0.2	8.2
3/01/2025 17:45	8.3	68.3	0.0	7.3	10.7	0.0	3/01/2025 17:45	7.3	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 18:00	8.2	60.3	0.0	7.3	10.8	0.0	3/01/2025 18:00	7.3	11.7	0.0	7.1	10.8	0.0	8.0
3/01/2025 18:15	8.4	70.2	0.0	7.4	10.7	0.0	3/01/2025 18:15	7.3	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 18:30	7.5	25.3	0.0	7.0	11.0	0.0	3/01/2025 18:30	7.3	11.8	0.0	7.1	10.8	0.0	8.0
3/01/2025 18:45	8.4	73.8	0.0	7.4	10.7	0.0	3/01/2025 18:45	7.3	11.8	0.0	7.0	10.8	0.0	8.0
3/01/2025 19:00	7.8	38.2	0.0	7.2	10.8	0.0	3/01/2025 19:00	7.2	11.7	0.0	7.1	10.8	0.0	8.0
3/01/2025 19:15	8.3	73.2	0.0	7.4	10.7	0.0	3/01/2025 19:15	7.2	11.9	0.0	7.0	10.8	0.0	8.0
3/01/2025 19:30	8.3	72.8	0.0	7.4	10.7	0.3	3/01/2025 19:30	7.2	11.6	0.0	7.1	10.9	0.0	8.0
3/01/2025 19:45	8.3	72.5	0.0	7.4	10.7	0.0	3/01/2025 19:45	7.2	11.9	0.0	7.1	10.8	0.4	8.4
3/01/2025 20:00	8.0	56.1	0.0	7.3	10.8	0.0	3/01/2025 20:00	7.1	11.7	0.0	7.1	10.9	0.0	8.0
3/01/2025 20:15	8.2	72.1	0.0	7.4	10.7	0.0	3/01/2025 20:15	7.1	11.9	0.0	7.0	10.9	0.0	8.0
3/01/2025 20:30	8.0	59.2	0.0	7.4	10.8	0.0	3/01/2025 20:30	7.1	11.8	0.0	7.0	10.9	0.0	8.0
3/01/2025 20:45	7.2	23.4	0.0	6.9	11.1	0.0	3/01/2025 20:45	7.1	11.9	0.0	7.0	10.9	0.1	8.1
3/01/2025 21:00	8.0	62.1	0.0	7.4	10.8	0.0	3/01/2025 21:00	7.1	11.8	0.0	7.0	10.9	0.0	8.0
3/01/2025 21:15	8.2	72.9	0.0	7.4	10.8	0.0	3/01/2025 21:15	7.0	11.9	0.0	7.0	10.9	0.0	8.0
3/01/2025 21:30	8.1	68.9	0.0	7.4	10.8	0.0	3/01/2025 21:30	7.0	11.7	0.0	7.0	10.9	0.0	8.0
3/01/2025 21:45	8.2	74.9	0.0	7.4	10.8	0.0	3/01/2025 21:45	7.0	11.9	0.0	7.0	10.9	0.0	8.0
3/01/2025 22:00	8.0	66.7	0.0	7.4	10.8	0.0	3/01/2025 22:00	7.0	11.8	0.0	7.1	10.9	0.0	8.0
3/01/2025 22:15	8.1	74.6	0.0	7.4	10.8	0.0	3/01/2025 22:15	6.9	11.9	0.0	7.0	10.9	0.0	8.0
3/01/2025 22:30	7.2	26.5	0.0	7.0	11.1	0.0	3/01/2025 22:30	6.9	11.8	0.0	7.1	10.9	0.0	8.0
3/01/2025 22:45	7.8	58.6	0.0	7.4	10.8	0.0	3/01/2025 22:45	6.9	11.9	0.0	7.0	10.9	0.0	8.0
3/01/2025 23:00	8.0	71.1	0.0	7.4	10.9	0.0	3/01/2025 23:00		11.8	0.0	7.1	11.0	0.0	8.0
3/01/2025 23:15	8.0	72.2	0.0	7.4	10.8	0.0	3/01/2025 23:15	6.9	11.9	0.0	7.0	11.0	0.0	8.0
3/01/2025 23:30	8.0	74.8	0.0	7.4	10.8	0.0	3/01/2025 23:30	6.8	11.8	0.0	7.0	11.0	0.0	8.0
3/01/2025 23:45	8.0	74.3	0.0	7.4	10.8	0.0	3/01/2025 23:45	6.8	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 0:00	8.0	73.8	0.0	7.4	10.8	0.1	3/02/2025 0:00	6.8	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 0:15	8.0	73.3	0.0	7.4	10.8	0.0	3/02/2025 0:15	6.8	11.9	0.0	7.0	11.0	0.7	8.7
3/02/2025 0:30	7.9	72.9	0.0	7.4	10.8	0.0	3/02/2025 0:30	6.7	11.8	0.0	7.0	11.0	0.0	8.0
3/02/2025 0:45	7.9	72.3	0.0	7.4	10.9	0.0	3/02/2025 0:45	6.7	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 1:00	7.3	44.2	0.0	7.1	11.1	0.0	3/02/2025 1:00	6.7	11.8	0.0	7.0	11.0	0.0	8.0
3/02/2025 1:15	7.6	58.8	0.0	7.4	10.9	0.2	3/02/2025 1:15	6.7	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 1:30	6.8	24.7	0.0	6.9	11.2	0.0	3/02/2025 1:30	6.7	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 1:45	7.7	76.2	0.0	7.3	11.0	0.5	3/02/2025 1:45	6.6	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 2:00	7.8	75.5	0.0	7.4	10.9	0.1	3/02/2025 2:00	6.6	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 2:15	7.5	59.7	0.0	7.4	10.9	0.7	3/02/2025 2:15	6.6	11.9	0.0	7.0	11.0	0.0	8.0

3/02/2025 2:30	6.8	26.7	0.0	7.0	11.2	0.0	3/02/2025 2:30	6.6	11.8	0.0	7.0	11.0	0.0	8.0
3/02/2025 2:45	7.7	73.2	0.0	7.4	10.9	0.1	3/02/2025 2:45	6.6	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 3:00	7.8	72.8	0.0	7.4	10.9	0.0	3/02/2025 3:00	6.6	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 3:15	7.6	59.2	0.0	7.4	10.9	0.0	3/02/2025 3:15	6.5	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 3:30	6.7	23.2	0.0	6.9	11.2	0.0	3/02/2025 3:30	6.5	11.7	0.0	7.1	11.1	0.0	8.0
3/02/2025 3:45	7.7	70.6	0.0	7.4	10.9	0.5	3/02/2025 3:45	6.5	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 4:00	7.4	51.0	0.0	7.3	11.0	0.0	3/02/2025 4:00		11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 4:15	7.8	72.0	0.0	7.4	10.9	0.0	3/02/2025 4:15	6.5	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 4:30	7.8	73.2	0.0	7.5	10.9	0.0	3/02/2025 4:30	6.5	11.7	0.0	7.0	11.1	0.0	8.0
3/02/2025 4:45	7.8	76.7	0.0	7.5	10.9	0.0	3/02/2025 4:45	6.5	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 5:00	7.6	67.0	0.0	7.4	10.9	0.1	3/02/2025 5:00	6.5	11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 5:15	7.8	77.8	0.0	7.5	10.9	0.8	3/02/2025 5:15	6.4	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 5:30	7.8	77.8	0.0	7.5	10.9	0.3	3/02/2025 5:30	6.4	11.8	0.0	7.0	11.1	0.0	8.0
3/02/2025 5:45	6.7	26.3	0.0	7.0	11.2	0.0	3/02/2025 5:45	6.4	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 6:00	7.7	77.6	0.0	7.5	10.9	0.3	3/02/2025 6:00	6.4	11.9	0.0	7.1	11.1	0.0	8.0
3/02/2025 6:15	7.7	77.4	0.0	7.5	10.9	0.1	3/02/2025 6:15	6.3	11.9	0.0	7.0	11.1	0.2	8.2
3/02/2025 6:30	7.5	70.6	0.0	7.5	10.9	0.0	3/02/2025 6:30	6.3	11.8	0.0	7.0	11.1	0.0	8.0
3/02/2025 6:45	7.6	76.3	0.0	7.5	10.9	0.0	3/02/2025 6:45	6.3	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 7:00	7.5	68.9	0.0	7.5	11.0	0.2	3/02/2025 7:00	6.3	11.8	0.0	7.0	11.1	0.0	8.0
3/02/2025 7:15	7.4	67.7	0.0	7.5	11.0	0.0	3/02/2025 7:15	6.3	11.9	0.0	7.1	11.1	0.0	8.0
3/02/2025 7:30	7.5	74.0	0.0	7.5	11.0	0.5	3/02/2025 7:30	6.3	11.8	0.0	7.0	11.2	0.0	8.0
3/02/2025 7:45	7.5	88.1	0.0	7.5	11.0	0.0	3/02/2025 7:45	6.3	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 8:00	6.5	27.4	0.0	7.1	11.3	0.0	3/02/2025 8:00	6.3	11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 8:15	6.5	31.2	0.0	7.0	11.3	0.0	3/02/2025 8:15	6.3	11.9	0.0	7.0	11.1	0.0	8.0
3/02/2025 8:30	7.5	94.6	0.0	7.4	11.0	0.0	3/02/2025 8:30	6.3	11.9	0.0	7.1	11.1	0.0	8.0
3/02/2025 8:45	7.5	95.8	0.0	7.3	11.0	0.0	3/02/2025 8:45	6.3	11.9	0.0	7.0	11.2	0.0	8.0
3/02/2025 9:00	7.1	69.5	0.0	7.3	11.0	0.0	3/02/2025 9:00		11.8	0.0	7.0	11.2	0.0	8.0
3/02/2025 9:15	7.5	93.4	0.0	7.3	11.0	0.0	3/02/2025 9:15	6.3	11.9	0.0	7.1	11.2	0.0	8.0
3/02/2025 9:30	7.6	83.4	0.0	7.4	11.0	0.1	3/02/2025 9:30	6.3	11.8	0.0	7.1	11.2	0.0	8.0
3/02/2025 9:45	7.6	82.0	0.0	7.4	10.9	0.0	3/02/2025 9:45	6.3	11.9	0.0	7.1	11.2	0.0	8.0
3/02/2025 10:00	7.7	82.4	0.0	7.5	10.9	2.6	3/02/2025 10:00	6.4	11.8	0.0	7.1	11.2	0.0	8.0
3/02/2025 10:15	8.0	95.9	0.0	7.6	10.8	2.9	3/02/2025 10:15	6.4	11.9	0.0	7.1	11.2	0.0	8.0
3/02/2025 10:30	8.1	94.6	0.0	7.6	10.8	1.5	3/02/2025 10:30	6.5	11.8	0.0	7.1	11.2	0.0	8.0
3/02/2025 10:45	6.7	20.7	0.0	7.0	11.2	0.0	3/02/2025 10:45	6.5	11.9	0.0	7.1	11.1	0.4	8.4
3/02/2025 11:00	6.9	27.6	0.0	7.0		0.2	3/02/2025 11:00	6.6	11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 11:15	7.8	77.6	0.0	7.4	10.9	0.0	3/02/2025 11:15	6.6	11.9	0.0	7.1	11.1	0.0	8.0
3/02/2025 11:30	7.9	76.4	0.0	7.4	10.9	0.0	3/02/2025 11:30	6.6	11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 11:45	8.0	78.6	0.0	7.4	10.9	0.0	3/02/2025 11:45	6.7	11.9	0.0	7.1	11.1	0.3	8.3
3/02/2025 12:00	8.2	84.1	0.0	7.5	10.8	0.7	3/02/2025 12:00	6.7	11.7	0.0	7.1	11.1	0.0	8.0
3/02/2025 12:15	7.6	53.7	0.0	7.3	11.0	3.1	3/02/2025 12:15	6.8	11.9	0.0	7.1	11.1	0.0	8.0
3/02/2025 12:30	7.2	26.8	0.0	7.1	11.0	0.0	3/02/2025 12:30	6.9	11.8	0.0	7.1	11.1	0.0	8.0
3/02/2025 12:45	8.2	74.7	0.0	7.4	10.8	0.0	3/02/2025 12:45	7.1	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 13:00	8.6	85.8	0.0	7.5	10.7	0.4	3/02/2025 13:00	7.2	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 13:15	8.7	88.3	0.0	7.5	10.7	1.8	3/02/2025 13:15	7.2	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 13:30	8.6	85.2	0.0	7.5	10.7	2.1	3/02/2025 13:30	7.2	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 13:45	7.9	47.1	0.0	7.4	10.8	0.2	3/02/2025 13:45	7.2	11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 14:00	8.5	97.9	0.0	7.4	10.7	2.1	3/02/2025 14:00	7.1	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 14:15	8.5	92.5	0.0	7.5	10.7	1.7	3/02/2025 14:15	7.1	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 14:30	8.1	60.4	0.0	7.5	10.7	11.2	3/02/2025 14:30	7.1	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 14:45	8.4	80.1	0.0	7.4	10.7	0.5	3/02/2025 14:45	7.1	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 15:00	8.4	78.3	0.0	7.4	10.7	0.4	3/02/2025 15:00	7.2	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 15:15	8.4	77.2	0.0	7.4	10.7	0.5	3/02/2025 15:15	7.2	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 15:30	7.9	39.2	0.0	7.2	10.8	0.0	3/02/2025 15:30	7.2	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 15:45	7.4	19.7	0.0	6.9	11.0	0.0	3/02/2025 15:45	7.2	11.9	0.0	7.1	10.9	0.2	8.2
3/02/2025 16:00	7.4	18.6	0.0	6.9	11.0	0.0	3/02/2025 16:00	7.3	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 16:15	8.6	78.2	0.0	7.4	10.7	0.3	3/02/2025 16:15	7.4	11.8	0.0	7.1	10.9	0.1	8.1
3/02/2025 16:30	8.6	77.3	0.0	7.5	10.7	0.4	3/02/2025 16:30	7.3	11.7	0.0	7.1	10.9	0.0	8.0
3/02/2025 16:45	8.6	76.8	0.0	7.5	10.7	0.4	3/02/2025 16:45	7.3	11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 17:00	8.1	47.6	0.0	7.4	10.8	5.0	3/02/2025 17:00	7.3	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 17:15	7.8	40.9	0.0	7.2	10.9	3.3	3/02/2025 17:15	7.3	11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 17:30	8.6	79.6	0.0	7.5	10.7	0.1	3/02/2025 17:30	7.3	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 17:45	8.6	79.8	0.0	7.5	10.7	0.0	3/02/2025 17:45	7.3	11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 18:00	8.6	80.1	0.0	7.5	10.7	0.4	3/02/2025 18:00	7.3	11.7	0.0	7.1	10.9	0.0	8.0
3/02/2025 18:15	8.5	79.1	0.0	7.5	10.7	0.7	3/02/2025 18:15	7.3	12.0	0.0	7.1	10.9	0.0	8.0
3/02/2025 18:30	7.4	21.9	0.0	7.0	10.9	0.0	3/02/2025 18:30	7.3	11.8	0.0	7.1	10.9	0.0	8.0
3/02/2025 18:45	7.6	36.3	0.0	7.2	10.9	0.0	3/02/2025 18:45	7.2	12.0	0.0	7.0	10.9	0.0	8.0
3/02/2025 19:00	8.4	79.3	0.0	7.5	10.7	0.3	3/02/2025 19:00	7.2	11.7	0.0	7.0	10.9	0.0	8.0
3/02/2025 19:15	8.4	79.9	0.0	7.5	10.7	0.9	3/02/2025 19:15	7.2	12.0	0.0	7.1	10.9	0.0	8.0
3/02/2025 19:30	8.0	61.3	0.0	7.6	10.8	9.6	3/02/2025 19:30	7.1	11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 19:45	8.3	77.1	0.0	7.5	10.7	0.9	3/02/2025 19:45	7.1	12.0	0.0	7.1	10.9	0.0	8.0
3/02/2025 20:00	8.3	76.3	0.0	7.5	10.7	0.0	3/02/2025 20:00		11.9	0.0	7.1	10.9	0.0	8.0
3/02/2025 20:15	8.3	75.4	0.0	7.5	10.8	0.0	3/02/2025 20:15	7.0	12.0	0.0	7.1	10.9	0.0	8.0
3/02/2025 20:30	8.0	65.3	0.0	7.4	10.8	0.0	3/02/2025 20:30	7.0	11.7	0.0	7.1	10.9	0.0	8.0
3/02/2025 20:45	8.3	75.0	0.0	7.5	10.8	0.0	3/02/2025 20:45	7.0	12.0	0.0	7.1	11.0	0.0	8.0
3/02/2025 21:00	7.1	20.3	0.0	6.9	11.1	0.0	3/02/2025 21:00	6.9	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 21:15	7.5	41.0	0.0	7.2	10.9	0.0	3/02/2025 21:15	6.9	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 21:30	8.2	75.0	0.0	7.4	10.8	0.0	3/02/2025 21:30	6.9	11.8	0.0	7.1	11.0	0.0	8.0
3/02/2025 21:45	7.0	20.3	0.0	6.9	11.1	0.0	3/02/2025 21:45	6.9	12.0	0.0	7.0	11.0	0.0	8.0
3/02/2025 22:00	7.2	38.9	0.0	7.1	11.1	0.0	3/02/2025 22:00	6.9	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 22:15	8.2	89.7	0.0	7.5	10.8	0.0	3/02/2025 22:15	6.8	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 22:30	8.2	77.8	0.0	7.4	10.8	0.0	3/02/2025 22:30	6.8	11.6	0.0	7.1	11.0	0.0	8.0
3/02/2025 22:45	8.3	77.4	0.0	7.5	10.8	0.0	3/02/2025 22:45	6.8	12.0	0.0	7.0	11.0	0.0	8.0
3/02/2025 23:00	8.3	76.9	0.0	7.5	10.8	0.1	3/02/2025 23:00	6.8	11.9	0.0	7.1	11.0	0.0	8.0
3/02/2025 23:15	8.2	74.2	0.0	7.4	10.8	0.0	3/02/2025 23:15	6.8	12.0	0.0	7.0	11.0	0.0	8.0
3/02/2025 23:30	8.2	74.0	0.0	7.4	10.8	0.0	3/02/2025 23:30	6.8	11.9	0.0	7.0	11.0	0.0	8.0
3/02/2025 23:45	8.2	75.2	0.0	7.4	10.8	0.0	3/02/2025 23:45	6.8	12.0	0.0	7.0	11.0	0.0	8.0