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 Hatfield Consultants LLP. 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.

Please note that this weekly report is intended to present the results of each weekly sampling event and highlight any non-compliances or missed sampling requirements outlined in the permit. This report is not intended to represent an interpretive report. Given that application of chronic BC water quality guidelines for protection of aquatic life in the receiving environment downstream of the discharge does not represent a regulatory requirement and instead data are intended to be assessed relative to monthly average concentrations, exceedances of these guidelines in receiving environment samples are highlighted for information purposes, but detailed interpretation of guideline exceedances are not provided given that an interpretation of monthly trends and consideration of background influences and discharge chemistry is required. However, routine review of these results are being conducted and should instream exceedances be identified, discharge results will be reviewed and optimized.

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 the QP.
- 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	2025-07-08	Yes *	Full set of lab sample results, photo and documentation are provided in Appendix B.

Table 5: Downstream Monitoring Information

Location	Date of Lab Sample	Real Time Monitored	Results
Squamish River Downstream	2025-07-08	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. At SQU DS Sone there were two isolated short (15-min) cases of missing data were noted for in situ dissolved oxygen (July 12 at 22:00 and July 13 at 12:00). At SQU US Sonde there was one isolated short (15-min) case of missing data was noted for in situ pH (July 8 at 22:00).

Summary-Woodfibre

Site Activities and Exceedances

- Weekly upstream, downstream and end of pipe taken by the QP.
- Ongoing tunnelling at WLNG and grouting works to mitigate water ingress.
- Water volume discharge exceedances.

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	2025-07-07	Yes-Appendix C	2,123 m^3
Woodfibre	2025-07-08	Yes-Appendix C	2,187 m^3
Woodfibre	2025-07-09	Yes-Appendix C	2,091 m^3
Woodfibre	2025-07-10	Yes-Appendix C	2,150 m^3
Woodfibre	2025-07-11	Yes-Appendix C	2,141 m^3
Woodfibre	2025-07-12	Yes-Appendix C	2,081 m^3
Woodfibre	2025-07-13	Yes-Appendix C	2,156 m^3

*Max discharge is 1500m3/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	2025-07-08	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	2025-07-08	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). Please note there were missing data for the WLNG DS Sonde for temperature, ORP, pH, DO and turbidity at WLNG DS on July 7 (19:00 and 23:00), July 8 (04:00 and 08:00), July 9 (08:00), July 10 (23:00), July 11 (22:00), and there was no data for any parameters at this station after 1am on July 12 (missing July 12 and July 13). There were also missing data for WLNG US Sonde for temperature, ORP, pH, DO at WLNG DS on July 8 (13:00), July 10 (14:00), July 11 (13:00).

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

BCR Site Batch Sample Analysis

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

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	SQU US 2025-07-08 13:43:00 [3]	SQU DS 2025-07-08 14:03:00 [3]
In situ Parameters									
Field pH	**pH Units**	6.5 - 9			7 - 8.7			**6.54**	**6.12**
Field Temperature	**°C**	18	19					13.6	13.2
General Parameters									
pH	**pH Units**							6.57	6.53
Alkalinity (Total as $CaCO_3$)	**mg/L**							9.2	7.7
Alkalinity (PP as $CaCO_3$)	**mg/L**							<1	<1
Hardness ($CaCO_3$)-Total	**mg/L**							13.1	13.7
Hardness ($CaCO_3$)-Dissolved	**mg/L**							9.72	8.63
Sulphide-Total	**mg/L**							<0.0018	<0.0018
Sulphide (as H2S)	**mg/L**			0.002				<0.002	<0.002
Un-ionized Hydrogen Sulfide as H2S-Total	**mg/L**							<0.0019	<0.0019
Un-ionized Hydrogen Sulfide as S-Total	**mg/L**							<0.0018	<0.0018
Anions and Nutrients									
Ammonia (N)-Total	**mg/L**	1.78	23.9		20	131		0.056	0.033
Bicarbonate (HCO_3)	**mg/L**							11	9.4
Carbonate (CO_3)	**mg/L**							<1	<1
Hydroxide (OH)	**mg/L**							<1	<1
Nitrate (N)	**mg/L**	3	32.8		3.7			<0.02	<0.02
Nitrite (N)	**mg/L**	0.02	0.06					<0.005	<0.005
Nitrate plus Nitrite (N)	**mg/L**							<0.02	<0.02
Nitrogen (N)-Total	**mg/L**							0.111	0.074
Phosphorus (P)-Total (4500-P)	**mg/L**							0.1	0.084
Bromide (Br)	**mg/L**							<0.01	<0.01
Chloride (Cl)	**mg/L**	150	600					<1	<1
Fluoride (F)	**mg/L**		0.517			1.5		<0.05	<0.05
Sulphate (SO_4)-Dissolved	**mg/L**	128						2.4	2.1
Total Metals									
Aluminum (Al)-Total	**mg/L**	0.00832						**1.29**	**1.87**
Antimony (Sb)-Total	**mg/L**	0.074	0.25					0.000052	0.000032
Arsenic (As)-Total	**mg/L**	0.005			0.0125			0.000143	0.000179
Barium (Ba)-Total	**mg/L**			1				0.0198	0.026
Beryllium (Be)-Total	**mg/L**			0.00013			0.1	0.000024	0.000029
Bismuth (Bi)-Total	**mg/L**							<0.00001	<0.00001
Boron (B)-Total	**mg/L**	1.2			1.2			<0.01	<0.01
Cadmium (Cd)-Total	**mg/L**						0.00012	0.000007	0.000008
Calcium (Ca)-Total	**mg/L**							3.98	3.95
Cesium (Cs)-Total	**mg/L**							<0.00005	<0.00005
Chromium (Cr)-Total	**mg/L**							0.00069	0.00078
Chromium (Cr III)-Total	**mg/L**			0.0089			0.056	<0.00099	<0.00099
Chromium (Cr VI)-Total	**mg/L**			0.0025			0.0015	<0.00099	<0.00099
Cobalt (Co)-Total	**mg/L**	0.000389	0.11					**0.000425**	**0.000633**

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	SQU US 2025-07-08 13:43:00 [3]	SQU DS 2025-07-08 14:03:00 [3]
Total Metals (Cont'd.)									
Copper (Cu)-Total	**mg/L**				0.002	0.003		**0.00243**	**0.0031**
Iron (Fe)-Total	**mg/L**		1					0.892	**1.33**
Lead (Pb)-Total	**mg/L**				0.002	0.14		0.000188	0.000243
Lithium (Li)-Total	**mg/L**							0.00115	0.00143
Magnesium (Mg)-Total	**mg/L**							0.76	0.93
Manganese (Mn)-Total	**mg/L**	0.663	0.684				0.1	0.0257	0.036
Mercury (Hg)-Total	**mg/L**	0.00002			0.00002			<0.0000019	<0.0000019
Molybdenum (Mo)-Total	**mg/L**	7.6	46					0.000422	0.000431
Nickel (Ni)-Total	**mg/L**						0.0083	0.00053	0.00075
Phosphorus (P)-Total (ICPMS)	**mg/L**							0.0802	0.0944
Potassium (K)-Total	**mg/L**							0.73	0.87
Rubidium (Rb)-Total	**mg/L**							0.0016	0.00213
Selenium (Se)-Total	**mg/L**	0.002			0.002			<0.00004	<0.00004
Silicon (Si)-Total	**mg/L**							4.45	5.02
Silver (Ag)-Total	**mg/L**	0.00012			0.0005	0.0037	0.0005	0.000022	0.000017
Sodium (Na)-Total	**mg/L**							1.43	1.43
Strontium (Sr)-Total	**mg/L**							0.03	0.0326
Sulphur (S)-Total	**mg/L**							<3	<3
Tellurium (Te)-Total	**mg/L**							<0.00002	<0.00002
Thallium (Tl)-Total	**mg/L**			0.00003				0.000008	0.000012
Thorium (Th)-Total	**mg/L**							<0.00005	0.000053
Tin (Sn)-Total	**mg/L**							<0.0002	<0.0002
Titanium (Ti)-Total	**mg/L**							0.0546	0.0892
Uranium (U)-Total	**mg/L**		0.0165	0.0075				0.000048	0.00006
Vanadium (V)-Total	**mg/L**			0.06			0.005	0.00258	0.00358
Zinc (Zn)-Total	**mg/L**				0.01	0.055		0.0033	0.0047
Zirconium (Zr)-Total	**mg/L**							0.00025	0.00021
Dissolved Metals									
Aluminum (Al)-Dissolved	**mg/L**							0.0232	0.0265
Antimony (Sb)-Dissolved	**mg/L**							<0.00002	<0.00002
Arsenic (As)-Dissolved	**mg/L**							0.000101	0.000095
Barium (Ba)-Dissolved	**mg/L**							0.00363	0.00386
Beryllium (Be)-Dissolved	**mg/L**							<0.00001	<0.00001
Bismuth (Bi)-Dissolved	**mg/L**							<0.000005	<0.000005
Boron (B)-Dissolved	**mg/L**							<0.01	<0.01
Cadmium (Cd)-Dissolved	**mg/L**	0.000047	0.000072					0.0000081	<0.000005
Calcium (Ca)-Dissolved	**mg/L**							3.34	2.96
Cesium (Cs)-Dissolved	**mg/L**							<0.00005	<0.00005
Chromium (Cr)-Dissolved	**mg/L**							<0.0001	<0.0001
Cobalt (Co)-Dissolved	**mg/L**							0.0000314	0.0000301
Copper (Cu)-Dissolved	**mg/L**	0.0002	0.0002					0.000336	0.000355

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1] [2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1] [2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1] [2]	**SQU US 2025-07-08 13:43:00** [3]	**SQU DS 2025-07-08 14:03:00** [3]
Dissolved Metals (Cont'd.)									
Iron (Fe)-Dissolved	**mg/L**		0.35					0.0204	0.02
Lead (Pb)-Dissolved	**mg/L**	0.000938						0.0000052	<0.000005
Lithium (Li)-Dissolved	**mg/L**							<0.0005	<0.0005
Manganese (Mn)-Dissolved	**mg/L**							0.0042	0.00392
Magnesium (Mg)-Dissolved	**mg/L**							0.338	0.302
Mercury (Hg)-Dissolved	**mg/L**							<0.0000019	<0.0000019
Molybdenum (Mo)-Dissolved	**mg/L**							0.000406	0.000379
Nickel (Ni)-Dissolved	**mg/L**	0.0005	0.0089					0.000071	0.000075
Phosphorus (P)-Dissolved	**mg/L**							0.0147	0.009
Potassium (K)-Dissolved	**mg/L**							0.409	0.416
Rubidium (Rb)-Dissolved	**mg/L**							0.000616	0.000648
Selenium (Se)-Dissolved	**mg/L**							<0.00004	<0.00004
Silicon (Si)-Dissolved	**mg/L**							2.61	2.2
Silver (Ag)-Dissolved	**mg/L**							<0.000005	<0.000005
Sodium (Na)-Dissolved	**mg/L**							1.1	0.972
Strontium (Sr)-Dissolved	**mg/L**			1.25				0.0197	0.0173
Sulphur (S)-Dissolved	**mg/L**							<3	<3
Tellurium (Te)-Dissolved	**mg/L**							<0.00002	<0.00002
Thallium (Tl)-Dissolved	**mg/L**							0.0000023	0.0000023
Thorium (Th)-Dissolved	**mg/L**							<0.000005	<0.000005
Tin (Sn)-Dissolved	**mg/L**							<0.0002	<0.0002
Titanium (Ti)-Dissolved	**mg/L**							0.00065	0.00089
Uranium (U)-Dissolved	**mg/L**							0.0000166	0.0000147
Vanadium (V)-Dissolved	**mg/L**							0.00084	0.0007
Zinc (Zn)-Dissolved	**mg/L**	0.003712	0.006378					0.00025	0.00031
Zirconium (Zr)-Dissolved	**mg/L**							<0.0001	<0.0001
Inorganics									
Organic Carbon (C)-Total	**mg/L**							<0.5	<0.5
Organic Carbon (C)-Dissolved	**mg/L**							<0.5	<0.5
Solids-Total Dissolved	**mg/L**							36	24
Solids-Total Suspended	**mg/L**	103	123					98	100

[1] Guideline calculated using the in-situ measurements (pH (field),Temperature (field), Turbidity (field), Hardness (as CaCO3) – total, Dissolved Organic Carbon (DOC), Total Alkalinity (CaCO3), and Chloride).
[2] Guideline values presented represent the lower of the co-factor dependent guidelines for the upstream and downstream stations when they differ, but exceedance bolding is dependent on guidelines calculated using in situ co-factor considerations.
[3] **Bold text** denotes value exceeding guidelines, except in cases where they are below a station-specific guideline that isn't displayed as per [1] and [2] above. Note: Not all exceedances are project related.

BCR Site Receiving Environment Field Notes and Logs

ter Quality Field Data Sheet

ect: PORTIS14934

Hatfield

ation Information

ID: SQRI-DS

Name: BCR - Squamish River

UTM: Zone E 123° 9' 54.351

D83) N 49° 43' 30.929

Date: July 8, 2025

Time: 14:03

Crew: Will Sherwin

Weather: Sun Fog/Cloud Rain Snow Windy

ifu Parameters

6.12

DO N/A (mg/L)

mp 13.2 (°C)

Cond 34 (us)

bidity 54.7 NTU

ible Sheen: Y / N

r Surface Condition: Clear Turbid Foaming Ice

Photo

Photo

Photo

Observations

Jul 8, 2025 2:25:18 p.m.
185° S
39645 Government Road
Squamish-Lillooet
British Columbia

ater Quality Field Data Sheet

Hatfield

ject: FORTIS11234

cation Information

te ID: SQR1-US

ite Name: BCR- Squamish River

ite UTM: Zone: E: 123°9'49.493

NAD83) N: 49°43'36.524"

Date: July 8 2025

Time: 13:43

Crew: Will Sherwin

Weather: Clear Foggy (Cloudy) Rain Snow Windy

n Situ Parameters

pH: 6.54

DO: N/A (mg/L)

Temp.: 13.6 (°C)

Cond: 47 (us)

Turbidity: 83.7 NTU

Visible Sheen: Y (N)

Water Surface Condition: Clear (Turbid) Foaming Ice

Photo Record

Observations

Jul 8, 2025 2:25:12 p.m.
187° S
39645 Government Road
Squamish-Lillooet
British Columbia

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

Woodfibre Site Sample Analysis

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1]	WLNG EOP 2025-07-08 08:45:00 [2]
In situ Parameters			
Field pH	**pH Units**	6.5 - 9	7.15
Field Temperature	**°C**	19	12.8
General Parameters			
pH	**pH Units**		7.38
Alkalinity (Total as $CaCO_3$)	**mg/L**		45
Alkalinity (PP as $CaCO_3$)	**mg/L**		<1
Hardness ($CaCO_3$)-Total	**mg/L**		53.5
Hardness ($CaCO_3$)-Dissolved	**mg/L**		49.4
Sulphide-Total	**mg/L**		<0.0018
Sulphide (as H2S)	**mg/L**		<0.002
Un-ionized Hydrogen Sulfide as H2S-Total	**mg/L**		<0.0019
Un-ionized Hydrogen Sulfide as S-Total	**mg/L**		<0.0018
Anions and Nutrients			
Ammonia (N)-Total	**mg/L**	17.2	0.063
Bicarbonate (HCO_3)	**mg/L**		55
Carbonate (CO_3)	**mg/L**		<1
Hydroxide (OH)	**mg/L**		<1
Nitrate (N)	**mg/L**	32.8	<0.02
Nitrite (N)	**mg/L**	0.6	<0.005
Nitrate plus Nitrite (N)	**mg/L**		<0.02
Nitrogen (N)-Total	**mg/L**		0.135
Phosphorus (P)-Total (4500-P)	**mg/L**		0.0057
Bromide (Br)	**mg/L**		<0.01
Chloride (Cl)	**mg/L**	600	10
Fluoride (F)	**mg/L**	1.083	0.079
Sulphate (SO_4)-Dissolved	**mg/L**		7.2
Total Metals			
Aluminum (Al)-Total	**mg/L**		0.0924
Antimony (Sb)-Total	**mg/L**	0.25	0.00016
Arsenic (As)-Total	**mg/L**		0.00144
Barium (Ba)-Total	**mg/L**		0.00908
Beryllium (Be)-Total	**mg/L**		<0.00001
Bismuth (Bi)-Total	**mg/L**		<0.000005
Boron (B)-Total	**mg/L**		0.012
Cadmium (Cd)-Total	**mg/L**		0.0000207
Calcium (Ca)-Total	**mg/L**		19.9
Cesium (Cs)-Total	**mg/L**		<0.00005
Chromium (Cr)-Total	**mg/L**		<0.0001
Chromium (Cr III)-Total	**mg/L**		<0.00099
Chromium (Cr VI)-Total	**mg/L**		<0.00099
Cobalt (Co)-Total	**mg/L**	0.11	0.000175
Copper (Cu)-Total	**mg/L**		0.000639
Iron (Fe)-Total	**mg/L**	1	0.0097
Lead (Pb)-Total	**mg/L**		0.0000491
Lithium (Li)-Total	**mg/L**		0.00232

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1]	WLNG EOP 2025-07-08 08:45:00 [2]
Total Metals (Cont'd.)			
Magnesium (Mg)-Total	**mg/L**		0.938
Manganese (Mn)-Total	**mg/L**	1.13	0.0825
Mercury (Hg)-Total	**mg/L**		<0.0000019
Molybdenum (Mo)-Total	**mg/L**	46	0.0176
Nickel (Ni)-Total	**mg/L**		0.00039
Phosphorus (P)-Total (ICPMS)	**mg/L**		0.0041
Potassium (K)-Total	**mg/L**		1.26
Rubidium (Rb)-Total	**mg/L**		0.00307
Selenium (Se)-Total	**mg/L**		0.000054
Silicon (Si)-Total	**mg/L**		5.97
Silver (Ag)-Total	**mg/L**		<0.000005
Sodium (Na)-Total	**mg/L**		5.63
Strontium (Sr)-Total	**mg/L**		0.0434
Sulphur (S)-Total	**mg/L**		<3
Tellurium (Te)-Total	**mg/L**		<0.00002
Thallium (Tl)-Total	**mg/L**		0.0000157
Thorium (Th)-Total	**mg/L**		<0.00005
Tin (Sn)-Total	**mg/L**		<0.0002
Titanium (Ti)-Total	**mg/L**		<0.0005
Uranium (U)-Total	**mg/L**	0.0165	0.000209
Vanadium (V)-Total	**mg/L**		<0.0002
Zinc (Zn)-Total	**mg/L**		0.00449
Zirconium (Zr)-Total	**mg/L**		<0.0001
Dissolved Metals			
Aluminum (Al)-Dissolved	**mg/L**		0.0401
Antimony (Sb)-Dissolved	**mg/L**		0.000164
Arsenic (As)-Dissolved	**mg/L**		0.00129
Barium (Ba)-Dissolved	**mg/L**		0.00882
Beryllium (Be)-Dissolved	**mg/L**		<0.00001
Bismuth (Bi)-Dissolved	**mg/L**		<0.000005
Boron (B)-Dissolved	**mg/L**		0.014
Cadmium (Cd)-Dissolved	**mg/L**	0.000309	0.0000239
Calcium (Ca)-Dissolved	**mg/L**		18.4
Cesium (Cs)-Dissolved	**mg/L**		<0.00005
Chromium (Cr)-Dissolved	**mg/L**		<0.0001
Cobalt (Co)-Dissolved	**mg/L**		0.000178
Copper (Cu)-Dissolved	**mg/L**	0.00103	0.000412
Iron (Fe)-Dissolved	**mg/L**	0.35	0.0017
Lead (Pb)-Dissolved	**mg/L**		0.0000161
Lithium (Li)-Dissolved	**mg/L**		0.00209
Manganese (Mn)-Dissolved	**mg/L**		0.0785
Magnesium (Mg)-Dissolved	**mg/L**		0.832
Mercury (Hg)-Dissolved	**mg/L**		<0.0000019
Molybdenum (Mo)-Dissolved	**mg/L**		0.0174
Nickel (Ni)-Dissolved	**mg/L**	0.018	0.000329

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1]	WLNG EOP 2025-07-08 08:45:00 [2]
Dissolved Metals (Cont'd.)			
Phosphorus (P)-Dissolved	**mg/L**		0.0041
Potassium (K)-Dissolved	**mg/L**		1.22
Rubidium (Rb)-Dissolved	**mg/L**		0.00283
Selenium (Se)-Dissolved	**mg/L**		0.000052
Silicon (Si)-Dissolved	**mg/L**		6.07
Silver (Ag)-Dissolved	**mg/L**		<0.000005
Sodium (Na)-Dissolved	**mg/L**		4.97
Strontium (Sr)-Dissolved	**mg/L**		0.0412
Sulphur (S)-Dissolved	**mg/L**		<3
Tellurium (Te)-Dissolved	**mg/L**		<0.00002
Thallium (Tl)-Dissolved	**mg/L**		0.0000158
Thorium (Th)-Dissolved	**mg/L**		<0.000005
Tin (Sn)-Dissolved	**mg/L**		<0.0002
Titanium (Ti)-Dissolved	**mg/L**		<0.0005
Uranium (U)-Dissolved	**mg/L**		0.00017
Vanadium (V)-Dissolved	**mg/L**		<0.0002
Zinc (Zn)-Dissolved	**mg/L**	0.024801	0.00352
Zirconium (Zr)-Dissolved	**mg/L**		<0.0001
Inorganics			
Organic Carbon (C)-Total	**mg/L**		1.8
Organic Carbon (C)-Dissolved	**mg/L**		1.3
Solids-Total Dissolved	**mg/L**		76
Solids-Total Suspended	**mg/L**	26.2	1.6
Organics			
HEPH (C19-C32 less PAH)	**mg/L**		<0.2
LEPH (C10-C19 less PAH)	**mg/L**		<0.2
EPH (C10-C19)	**mg/L**		<0.2
EPH (C19-C32)	**mg/L**		<0.2
Ethylene Glycol	**mg/L**		<3
Diethylene Glycol	**mg/L**		<5
Triethylene Glycol	**mg/L**		<5
Propylene Glycol	**mg/L**		<5
Acenaphthene	**mg/L**		<0.00005
Acenaphthylene	**mg/L**		<0.00005
Acridine	**mg/L**		<0.00005
Anthracene	**mg/L**		<0.00001
Benzo(a)anthracene	**mg/L**		<0.00001
Benzo(a)pyrene	**mg/L**		<0.000005
Benzo(b&j)fluoranthene	**mg/L**		<0.00003
Benzo(g,h,i)perylene	**mg/L**		<0.00005
Benzo(k)fluoranthene	**mg/L**		<0.00005
Chrysene	**mg/L**		<0.00002
Dibenz(a,h)anthracene	**mg/L**		<0.000003
Fluoranthene	**mg/L**		<0.00002
Fluorene	**mg/L**		<0.00005

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1]	WLNG EOP 2025-07-08 08:45:00 [2]
Organics (Cont'd.)			
Indeno(1,2,3-cd)pyrene	**mg/L**		<0.00005
1-Methylnaphthalene	**mg/L**		<0.00005
2-Methylnaphthalene	**mg/L**		<0.0001
Naphthalene	**mg/L**	0.001	<0.0001
Phenanthrene	**mg/L**		<0.00005
Pyrene	**mg/L**		<0.00002
Quinoline	**mg/L**		<0.00002
Low Molecular Weight PAH`s	**mg/L**		<0.0001
High Molecular Weight PAH`s	**mg/L**		<0.00005
Total PAH	**mg/L**		<0.0001
VH C6-C10	**mg/L**		<0.3
1,1,1,2-Tetrachloroethane	**mg/L**		<0.0005
1,1,1-Trichloroethane	**mg/L**		<0.0005
1,1,2,2-Tetrachloroethane	**mg/L**		<0.0005
1,1,2Trichloro-1,2,2Trifluoroethane	**mg/L**		<0.002
1,1,2-Trichloroethane	**mg/L**		<0.0005
1,1-Dichloroethane	**mg/L**		<0.0005
1,1-Dichloroethene	**mg/L**		<0.0005
1,2,3-trichlorobenzene	**mg/L**		<0.002
1,2,4-trichlorobenzene	**mg/L**		<0.002
1,2-dibromoethane	**mg/L**		<0.0002
1,2-Dichlorobenzene	**mg/L**		<0.0005
1,2-Dichloroethane	**mg/L**		<0.0005
1,2-Dichloropropane	**mg/L**		<0.0005
1,3,5-trimethylbenzene	**mg/L**		<0.002
1,3-Butadiene	**mg/L**		<0.0005
1,3-Dichlorobenzene	**mg/L**		<0.0005
1,3-dichloropropane	**mg/L**		<0.001
1,4-Dichlorobenzene	**mg/L**		<0.0005
Benzene	**mg/L**		<0.0004
Bromobenzene	**mg/L**		<0.002
Bromodichloromethane	**mg/L**		<0.001
Bromoform	**mg/L**		<0.001
Bromomethane	**mg/L**		<0.001
Carbon tetrachloride	**mg/L**		<0.0005
Chlorobenzene	**mg/L**		<0.0005
Chloroethane	**mg/L**		<0.001
Chloroform	**mg/L**		<0.001
Chloromethane	**mg/L**		<0.001
cis-1,2-Dichloroethene	**mg/L**		<0.001
cis-1,3-Dichloropropene	**mg/L**		<0.001
Dibromochloromethane	**mg/L**		<0.001
Dichlorodifluoromethane	**mg/L**		<0.002
Dichloromethane	**mg/L**		<0.002
Ethylbenzene	**mg/L**		<0.0004

Analyte	Unit	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1]	**WLNG EOP 2025-07-08 08:45:00 [2]**
Organics (Cont'd.)			
Hexachlorobutadiene	**mg/L**		<0.0005
Isopropylbenzene	**mg/L**		<0.002
Methyl-tert-butylether (MTBE)	**mg/L**	3.4	<0.004
Styrene	**mg/L**		0.0039
Tetrachloroethene	**mg/L**		<0.0005
Toluene	**mg/L**		<0.0004
trans-1,2-dichloroethene	**mg/L**		<0.001
trans-1,3-dichloropropene	**mg/L**		<0.001
Trichloroethene	**mg/L**		<0.0005
Trichlorofluoromethane	**mg/L**		<0.004
Vinyl chloride	**mg/L**		<0.0005
VPH (VH6 to 10 - BTEX)	**mg/L**		<0.3
Xylenes (Total)	**mg/L**		<0.0004
m & p-Xylene	**mg/L**		<0.0004
o-Xylene	**mg/L**		<0.0004
Phenols	**mg/L**	0.05	<0.0015

[1] Guideline calculated using the in-situ measurements (pH (field),Temperature (field), Turbidity (field), Hardness (as $CaCO_3$) – total, Dissolved Organic Carbon (DOC), Total Alkalinity ($CaCO_3$), and Chloride).

[2] **Bold text** denotes value exceeding guidelines. Note: Not all exceedances are project related.

[3] LC50 Lethal concentrations of test effluent which results in 50% mortality of test organisms. An LC50 of 100 indicates a pass (no acute mortality).

Woodfibre Site WTP Discharge Field Notes and Logs

Water Quality Field Data Sheet

Project: FORTIS11234

Hatfield

Location Information

Site ID: WLNG - EOP

Site Name: WLNG

Site UTM: Zone: E: 123° 14' 59.265"

(NAD83) N: 49° 40' 9.605"

Date: July 08 2025

Time: 08:45

Crew: Will Swain

Weather: (Clear) Foggy Cloudy Rain Snow Windy

In Situ Parameters

pH: ~~7.2~~ 7.15

Temp: 12.8 (°C)

Turbidity: 6.91 NTU

DO: 2.37 (mg/L)

Cond: 155 (us)

Visible Sheen: Y / (N)

Water Surface Condition: (Clear) Turbid Foaming Ice

Photo Record

Photo

Photo

Photo

Observations

Jul 8, 2025 10:16:58 a.m.
106° E
Squamish-Lillooet
British Columbia

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Table of Contents:

1. Executive Summary and Field Notes:

The discharged water consistently remained within regulatory guidelines. The key parameters, including temperature, pH, NTU, salinity, conductivity, and oxidation-reduction potential (ORP), were monitored throughout the discharge process and remained within the prescribed limits. No visible sheen observed on top of the WTP tanks and discharged water. All relevant parameters were measured using YSI instruments and WTP probes. The total discharge volume up to July 07 was 394,017 m^3.

Daily Volume Summary:

Table 1: Discharge Volumes Daily Summary

Date	Location	Volume (m3)	Comments
July 07	Woodfibre (WF)	2,123	Exceeded discharge volume limit
July 08	WF	2,187	Exceeded discharge volume limit
July 09	WF	2,091	Exceeded discharge volume limit
July 10	WF	2,150	Exceeded discharge volume limit
July 11	WF	2,141	Exceeded discharge volume limit
July 12	WF	2,081	Exceeded discharge volume limit
July 13	WF	2,156	Exceeded discharge volume limit
	Total	14,929	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)
7/7/2025	0:00:00	7.2	2.445	3.3	394,017	12.8	268
7/7/2025	0:15:00	7.3	1.567	11.7	394,047	12.7	269
7/7/2025	0:30:00	6.9	2.551	2.4	394,078	12.7	269
7/7/2025	1:00:00	7.2	2.578	2.9	394,130	12.8	114
7/7/2025	2:00:00	7.4	1.734	3.5	394,154	13.5	259
7/7/2025	2:15:00	7.3	2.562	1.6	394,171	14.2	119
7/7/2025	2:30:00	7.2	2.536	2.8	394,209	13.4	117
7/7/2025	2:45:00	7.2	2.528	2.5	394,247	13.2	116
7/7/2025	3:00:00	7.2	2.472	3.6	394,284	13.1	117
7/7/2025	3:15:00	7.2	2.494	2.8	394,304	13	116
7/7/2025	3:30:00	7.3	1.427	68.8	394,335	13.1	267
7/7/2025	4:00:00	7.3	2.002	3.6	394,371	12.9	266
7/7/2025	4:30:00	7.2	2.521	2.5	394,422	12.8	114
7/7/2025	4:45:00	7.2	2.464	2.9	394,459	12.8	116
7/7/2025	5:00:00	7.2	2.441	2.7	394,478	12.8	265
7/7/2025	5:15:00	7.2	2.422	3.4	394,515	13.1	262
7/7/2025	5:30:00	7.2	2.362	4	394,550	13.4	121
7/7/2025	6:00:00	7.3	2.297	21.4	394,593	13.7	121
7/7/2025	6:30:00	7.2	2.536	1.8	394,648	13.6	261
7/7/2025	6:45:00	7.2	2.491	2.3	394,685	13.6	262
7/7/2025	7:00:00	7.2	2.464	2.8	394,722	13.5	258

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	7:30:00	7.3	2.566	3.4	394,767	13.1	116
7/7/2025	7:45:00	7.2	2.612	2.8	394,796	13	114
7/7/2025	8:00:00	7.3	0.197	1.2	394,824	13.5	114
7/7/2025	8:15:00	7.2	2.581	3.9	394,858	12.9	115
7/7/2025	8:30:00	7.3	2.562	3	394,881	13	116
7/7/2025	8:45:00	7.3	1.737	9.3	394,912	12.9	114
7/7/2025	9:00:00	7.3	2.392	3.9	394,933	12.8	262
7/7/2025	9:15:00	7.2	2.403	7	394,968	12.8	263
7/7/2025	9:30:00	7.2	2.400	6.1	394,999	12.9	263
7/7/2025	9:45:00	7.3	2.415	6.4	395,035	12.8	263
7/7/2025	10:00:00	7.4	1.817	15	395,055	13.9	260
7/7/2025	10:15:00	7.3	2.434	2.2	395,088	12.9	116
7/7/2025	10:30:00	7.4	2.438	4.4	395,124	12.9	116
7/7/2025	10:45:00	7.4	1.889	20	395,154	13.2	260
7/7/2025	11:15:00	7.3	2.475	4.2	395,215	13.1	117
7/7/2025	11:30:00	7.4	2.354	5.3	395,241	13.1	117
7/7/2025	11:45:00	7.4	2.339	4.6	395,276	13.2	117
7/7/2025	12:15:00	7.4	2.335	3	395,336	13.3	117
7/7/2025	12:45:00	7.4	1.832	6.1	395,374	14.4	260
7/7/2025	13:00:00	7.4	0.466	4.1	395,409	13.8	261
7/7/2025	13:15:00	7.4	2.528	4.4	395,415	13.8	257
7/7/2025	13:30:00	7.3	2.540	5.1	395,447	13.6	259
7/7/2025	13:45:00	7.3	2.513	8.6	395,485	13.6	261
7/7/2025	14:00:00	7.3	1.593	18.1	395,515	13.6	261
7/7/2025	14:15:00	7.3	2.513	6.8	395,548	13.6	261

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	14:30:00	7.3	2.494	2.4	395,585	13.6	261
7/7/2025	14:45:00	7.4	1.870	6.6	395,618	13.8	264
7/7/2025	15:00:00	7.4	2.475	2.3	395,655	13.7	261
7/7/2025	15:15:00	7.4	2.445	1.7	395,691	13.6	261
7/7/2025	15:30:00	7.4	2.445	1.8	395,723	13.7	259
7/7/2025	15:45:00	7.4	2.449	3.5	395,760	13.6	259
7/7/2025	16:00:00	7.4	0.307	19.2	395,793	13.7	117
7/7/2025	16:15:00	7.4	0.280	372.9	395,797	16.5	117
7/7/2025	16:30:00	7.4	2.483	4.3	395,829	13.7	117
7/7/2025	17:00:00	7.4	2.487	5.4	395,867	13.5	118
7/7/2025	17:15:00	7.4	2.468	4.6	395,905	13.4	117
7/7/2025	17:30:00	7.4	2.475	3.7	395,933	13.3	117
7/7/2025	17:45:00	7.4	2.456	4.5	395,970	13.2	117
7/7/2025	18:15:00	7.4	2.509	3.9	396,015	13.4	257
7/7/2025	18:30:00	7.4	2.483	5.4	396,053	13.4	259
7/7/2025	19:00:00	7.4	2.509	3.6	396,087	13.5	261
7/7/2025	19:15:00	7.3	2.509	4.2	396,124	13.3	261
7/7/2025	19:30:00	7.3	2.441	2.5	396,153	13.3	262
7/7/2025	19:45:00	7.3	2.419	3	396,189	13.2	262
7/7/2025	20:00:00	7.3	1.730	12.2	396,220	13.2	262
7/7/2025	20:30:00	7.3	2.407	3	396,265	13	263
7/7/2025	20:45:00	7.3	2.396	3.5	396,301	12.9	263
7/7/2025	21:00:00	7.3	2.373	4.5	396,337	12.9	265
7/7/2025	21:15:00	7.3	2.339	5.8	396,372	12.8	265
7/7/2025	21:45:00	7.3	2.472	3.9	396,400	12.8	263

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	22:00:00	7.3	2.426	3.8	396,437	12.9	263
7/7/2025	22:15:00	7.3	2.396	4.6	396,473	12.9	262
7/7/2025	22:30:00	7.3	2.396	4.8	396,509	13	261
7/7/2025	22:45:00	7.3	2.350	4.2	396,544	13	263
7/7/2025	23:00:00	7.4	2.434	16.2	396,567	13.1	265
7/7/2025	23:15:00	7.4	2.252	12.4	396,599	13.2	261
7/7/2025	23:30:00	7.4	2.517	5	396,622	13.1	262
7/7/2025	23:45:00	7.5	2.699	8.5	396,657	13.2	265
7/8/2025	0:15:00	7.6	1.881	5.2	396,692	13.1	268
7/8/2025	0:45:00	7.6	2.661	2	396,745	13.1	270
7/8/2025	1:00:00	7.5	2.608	1.7	396,785	13.1	270
7/8/2025	1:15:00	7.5	2.135	4	396,823	13.1	270
7/8/2025	1:45:00	7.5	2.653	1.5	396,872	13	270
7/8/2025	2:00:00	7.5	2.627	5.3	396,911	13.1	270
7/8/2025	2:30:00	7.5	2.661	0.2	396,970	13.7	264
7/8/2025	2:45:00	7.5	2.631	2.4	397,006	13.9	266
7/8/2025	3:15:00	7.5	2.657	0.2	397,060	13.9	266
7/8/2025	4:00:00	7.5	2.672	0.2	397,118	13.9	264
7/8/2025	4:15:00	7.4	2.676	0	397,158	13.9	263
7/8/2025	4:30:00	7.4	2.687	0.4	397,194	14	263
7/8/2025	5:00:00	7.5	2.650	0.2	397,250	14	263
7/8/2025	5:15:00	7.4	2.184	1.7	397,287	14.1	262
7/8/2025	5:45:00	7.4	2.684	0.5	397,342	13.7	262
7/8/2025	6:00:00	7.4	2.176	1.9	397,381	13.6	261
7/8/2025	6:30:00	7.4	2.699	0.6	397,432	13.4	261

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	7:00:00	7.4	2.691	0.7	397,478	13.6	265
7/8/2025	7:15:00	7.4	2.676	0.6	397,518	13.3	264
7/8/2025	7:30:00	7.3	2.676	0.8	397,558	13.2	265
7/8/2025	8:00:00	7.3	2.672	0.8	397,614	13.1	265
7/8/2025	8:15:00	7.3	2.657	0.8	397,654	13	265
7/8/2025	8:30:00	7.4	2.608	0.8	397,667	13.4	267
7/8/2025	8:45:00	7.3	2.593	0.2	397,700	12.9	265
7/8/2025	9:00:00	7.2	2.509	0.2	397,732	13.3	265
7/8/2025	9:15:00	7.2	2.487	0.4	397,769	12.9	267
7/8/2025	9:30:00	7.3	2.498	3	397,779	13.5	267
7/8/2025	9:45:00	7.2	2.509	0.7	397,817	13	265
7/8/2025	10:00:00	7.3	2.441	0.6	397,854	13	265
7/8/2025	10:15:00	7.4	1.722	15.3	397,869	13.7	265
7/8/2025	10:30:00	7.3	2.422	0.4	397,902	13	263
7/8/2025	10:45:00	7.4	2.426	0.5	397,938	13.1	263
7/8/2025	11:00:00	7.4	2.392	0.4	397,974	13.1	263
7/8/2025	11:30:00	7.4	2.653	0.6	397,994	13.5	260
7/8/2025	11:45:00	7.4	2.767	0.5	398,034	13.3	262
7/8/2025	12:00:00	7.3	2.358	4.2	398,074	13.4	260
7/8/2025	12:15:00	7.3	2.544	0.5	398,114	13.2	260
7/8/2025	12:30:00	7.4	2.525	0.8	398,151	13.2	260
7/8/2025	12:45:00	7.4	2.506	0.9	398,189	13.3	260
7/8/2025	13:15:00	7.4	2.574	1	398,239	13.5	260
7/8/2025	13:30:00	7.4	2.555	0.7	398,278	13.5	260
7/8/2025	13:45:00	7.4	2.195	0.9	398,311	13.5	260

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	14:00:00	7.4	0.901	16.3	398,345	13.6	264
7/8/2025	14:30:00	7.4	2.483	3.7	398,388	13.5	265
7/8/2025	14:45:00	7.4	1.790	7.4	398,419	13.4	263
7/8/2025	15:00:00	7.4	2.411	4.6	398,453	13.2	263
7/8/2025	15:30:00	7.4	2.426	3.2	398,490	13.3	262
7/8/2025	15:45:00	7.4	2.388	3	398,526	13.1	263
7/8/2025	16:00:00	7.4	1.726	24.7	398,561	13.1	263
7/8/2025	16:15:00	7.4	2.392	3.4	398,591	13.1	262
7/8/2025	16:30:00	7.4	2.426	4.8	398,627	13.1	262
7/8/2025	17:00:00	7.5	2.517	3.6	398,675	13.3	263
7/8/2025	17:15:00	7.5	2.464	3.4	398,712	13.3	265
7/8/2025	17:30:00	7.5	2.483	6.1	398,741	13.4	263
7/8/2025	17:45:00	7.5	2.498	7.4	398,759	14.7	117
7/8/2025	18:00:00	7.4	1.836	28	398,796	13.3	117
7/8/2025	18:15:00	7.4	2.472	3.5	398,827	13.3	117
7/8/2025	18:30:00	7.4	2.475	4.3	398,865	13.3	117
7/8/2025	19:00:00	7.4	2.487	4.3	398,916	13.3	116
7/8/2025	19:15:00	7.4	2.460	2.9	398,953	13.2	114
7/8/2025	19:30:00	7.4	2.491	4.4	398,982	13.2	114
7/8/2025	19:45:00	7.4	2.472	12.4	399,000	13.2	114
7/8/2025	20:30:00	7.4	2.369	5.3	399,066	12.9	114
7/8/2025	20:45:00	7.4	2.335	3	399,102	12.9	114
7/8/2025	21:00:00	7.4	2.377	2.3	399,117	12.9	115
7/8/2025	21:15:00	7.4	2.430	2.8	399,153	12.8	114
7/8/2025	21:30:00	7.4	2.381	3.3	399,189	13	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	21:45:00	7.4	2.373	3.5	399,225	13	114
7/8/2025	22:15:00	7.4	2.434	2.4	399,271	12.9	114
7/8/2025	22:30:00	7.4	2.434	3.4	399,308	12.8	114
7/8/2025	23:00:00	7.4	2.388	1.5	399,352	12.8	114
7/8/2025	23:15:00	7.4	2.366	2	399,388	12.9	114
7/8/2025	23:30:00	7.4	2.063	6.3	399,421	12.9	114
7/8/2025	23:45:00	7.4	2.377	2	399,452	12.9	116
7/9/2025	0:15:00	7.4	2.354	1.9	399,468	14	116
7/9/2025	0:30:00	7.4	2.438	1.3	399,500	13	116
7/9/2025	0:45:00	7.4	2.415	2.1	399,536	12.9	116
7/9/2025	1:15:00	7.4	1.851	11.4	399,585	13.1	116
7/9/2025	1:30:00	7.4	2.479	5	399,622	13.1	116
7/9/2025	1:45:00	7.4	2.456	5.3	399,659	13.2	116
7/9/2025	2:00:00	7.4	1.154	21.4	399,692	13.2	117
7/9/2025	2:15:00	7.5	2.483	371	399,717	14	115
7/9/2025	2:30:00	7.4	0.212	0	399,746	13.9	114
7/9/2025	2:45:00	7.3	2.456	3.6	399,773	13.2	114
7/9/2025	3:00:00	7.3	2.491	3.2	399,806	13.2	115
7/9/2025	3:15:00	7.3	2.472	3.1	399,843	13.3	114
7/9/2025	4:00:00	7.4	2.464	2.9	399,875	13.7	114
7/9/2025	4:15:00	7.3	2.422	2.5	399,912	13.3	115
7/9/2025	4:30:00	7.3	1.870	13.8	399,945	13.3	114
7/9/2025	4:45:00	7.2	2.460	6.6	399,978	13.2	116
7/9/2025	5:00:00	7.3	2.434	5.8	400,015	13.3	116
7/9/2025	5:15:00	7.3	2.415	9.4	400,051	13.4	260

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	5:30:00	7.3	2.434	4.8	400,075	13.5	260
7/9/2025	5:45:00	7.4	2.419	7.1	400,112	13.5	261
7/9/2025	6:30:00	7.4	2.445	4.6	400,173	13.3	117
7/9/2025	7:00:00	7.3	1.673	15	400,207	13.3	116
7/9/2025	7:15:00	7.3	2.415	8.4	400,239	13.2	117
7/9/2025	7:30:00	7.3	2.468	8.4	400,276	13.2	116
7/9/2025	8:00:00	7.3	2.468	10.2	400,316	13.2	117
7/9/2025	8:15:00	7.3	2.460	16.7	400,354	13.1	116
7/9/2025	8:30:00	7.3	2.438	20.6	400,374	13	114
7/9/2025	8:45:00	7.3	2.472	9.7	400,388	13.2	114
7/9/2025	9:00:00	7.3	2.456	3.1	400,425	13	114
7/9/2025	9:30:00	7.3	2.438	2.7	400,476	13.1	114
7/9/2025	9:45:00	7.3	2.403	3.3	400,512	13	114
7/9/2025	10:00:00	7.3	2.438	6.6	400,541	13	114
7/9/2025	10:15:00	7.3	2.460	2.7	400,557	13.1	114
7/9/2025	10:30:00	7.3	2.434	3.1	400,593	13.1	114
7/9/2025	10:45:00	7.3	2.483	5.4	400,623	13.1	114
7/9/2025	11:15:00	7.2	2.445	4.3	400,677	13.2	114
7/9/2025	11:30:00	7.2	2.453	6.8	400,706	13.3	114
7/9/2025	11:45:00	7.3	2.434	5.6	400,742	13.3	115
7/9/2025	12:00:00	7.3	2.396	6.9	400,778	13.3	114
7/9/2025	12:15:00	7.4	2.392	13.1	400,791	14.1	257
7/9/2025	12:45:00	7.4	2.441	3.1	400,854	13.3	117
7/9/2025	13:00:00	7.4	2.460	4.4	400,873	13.4	117
7/9/2025	13:30:00	7.4	2.456	3.2	400,939	13.4	117

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	13:45:00	7.5	2.438	2.4	400,955	13.7	270
7/9/2025	14:30:00	7.5	2.430	2.5	401,041	13.5	272
7/9/2025	14:45:00	7.5	1.817	12.5	401,076	13.5	272
7/9/2025	15:00:00	7.4	2.441	1.7	401,108	13.5	270
7/9/2025	15:15:00	7.4	2.415	2.3	401,144	13.6	270
7/9/2025	15:45:00	7.4	2.460	3.3	401,194	13.6	272
7/9/2025	16:00:00	7.4	2.426	3.3	401,230	13.7	272
7/9/2025	16:15:00	7.4	1.699	25.5	401,265	13.8	273
7/9/2025	16:30:00	7.4	2.422	2.1	401,283	13.8	272
7/9/2025	16:45:00	7.3	2.415	1.9	401,319	13.7	272
7/9/2025	17:30:00	7.3	2.415	0.3	401,368	13.8	273
7/9/2025	17:45:00	7.3	1.745	3.7	401,403	13.8	273
7/9/2025	18:00:00	7.3	2.354	0.2	401,435	13.8	273
7/9/2025	18:15:00	7.3	2.332	0	401,470	13.7	272
7/9/2025	18:30:00	7.3	1.646	6.2	401,498	13.8	272
7/9/2025	19:00:00	7.3	2.479	2.9	401,537	13.9	268
7/9/2025	19:15:00	7.3	1.828	4.4	401,570	14	272
7/9/2025	19:45:00	7.3	2.460	1.8	401,617	13.9	270
7/9/2025	20:00:00	7.3	1.889	3.8	401,650	14	270
7/9/2025	20:15:00	7.3	2.464	1.2	401,686	13.8	268
7/9/2025	20:30:00	7.3	2.441	3.1	401,723	13.7	268
7/9/2025	21:00:00	7.2	2.475	1.1	401,771	13.6	267
7/9/2025	21:15:00	7.2	2.441	3.5	401,808	13.5	267
7/9/2025	21:30:00	7.2	2.286	5.6	401,841	13.8	268
7/9/2025	21:45:00	7.2	2.491	2.9	401,878	13.8	268

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	22:00:00	7.3	2.453	7.1	401,915	13.8	272
7/9/2025	22:15:00	7.3	1.987	11.1	401,944	13.9	273
7/9/2025	22:30:00	7.3	2.494	2.4	401,955	13.9	273
7/9/2025	23:00:00	7.3	1.927	6.9	401,999	13.9	273
7/9/2025	23:15:00	7.3	2.479	1.3	402,036	13.7	272
7/9/2025	23:30:00	7.3	2.464	3.8	402,072	13.7	270
7/9/2025	23:45:00	7.3	1.927	7.8	402,085	13.8	270
7/10/2025	0:00:00	7.3	2.494	5.1	402,121	13.7	268
7/10/2025	0:15:00	7.3	2.513	6.9	402,135	13.9	270
7/10/2025	0:30:00	7.3	1.927	5.5	402,168	13.9	270
7/10/2025	0:45:00	7.3	2.483	4.2	402,205	13.7	270
7/10/2025	1:15:00	7.3	1.911	4.2	402,272	14	270
7/10/2025	1:30:00	7.3	1.238	30	402,295	13.7	270
7/10/2025	1:45:00	7.3	2.445	2.1	402,324	13.5	114
7/10/2025	2:15:00	7.3	1.828	8.5	402,379	13.7	116
7/10/2025	2:30:00	7.3	2.430	1.5	402,411	13.6	117
7/10/2025	2:45:00	7.3	2.407	2.4	402,447	13.6	117
7/10/2025	3:30:00	7.3	2.475	5.3	402,524	13.6	118
7/10/2025	3:45:00	7.3	1.847	17.1	402,541	14	257
7/10/2025	4:00:00	7.3	2.502	2.2	402,575	13.7	259
7/10/2025	4:15:00	7.3	2.475	2.7	402,612	13.7	258
7/10/2025	4:45:00	7.3	2.472	3.6	402,678	13.6	259
7/10/2025	5:00:00	7.3	2.491	3.4	402,715	13.6	259
7/10/2025	5:30:00	7.3	2.479	6.5	402,756	13.8	259
7/10/2025	5:45:00	7.3	2.441	6.8	402,793	13.5	260

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	6:00:00	7.3	1.783	17.3	402,826	13.6	260
7/10/2025	6:15:00	7.3	2.426	3	402,859	13.7	259
7/10/2025	6:30:00	7.3	2.419	3.2	402,895	13.8	259
7/10/2025	6:45:00	7.3	1.798	15.4	402,929	13.8	258
7/10/2025	7:00:00	7.3	2.456	131.1	402,946	15	117
7/10/2025	7:15:00	7.3	2.449	6.9	402,982	13.7	117
7/10/2025	7:30:00	7.3	1.862	28.4	403,018	13.6	117
7/10/2025	7:45:00	7.3	2.460	8.7	403,051	13.5	117
7/10/2025	8:00:00	7.3	0.246	7.9	403,085	13.5	117
7/10/2025	8:15:00	7.3	1.870	20.4	403,108	13.5	117
7/10/2025	8:30:00	7.3	2.472	11.8	403,142	13.4	117
7/10/2025	9:00:00	7.3	2.453	19.7	403,194	13.3	116
7/10/2025	9:30:00	7.4	2.449	12.9	403,208	13.5	114
7/10/2025	9:45:00	7.3	2.430	10.6	403,244	13.2	115
7/10/2025	10:00:00	7.3	2.392	12.9	403,281	13.3	117
7/10/2025	10:15:00	7.3	2.453	4.5	403,294	13.3	117
7/10/2025	10:30:00	7.3	2.419	2.9	403,331	13.2	114
7/10/2025	10:45:00	7.3	2.388	4.8	403,367	13.2	114
7/10/2025	11:15:00	7.3	2.422	3.9	403,407	13.1	114
7/10/2025	11:30:00	7.3	2.373	5.1	403,443	13.1	114
7/10/2025	11:45:00	7.2	2.400	4.1	403,471	13.1	114
7/10/2025	12:00:00	7.2	2.369	8.6	403,507	13.2	114
7/10/2025	12:30:00	7.2	2.369	9	403,556	13.3	114
7/10/2025	12:45:00	7.3	2.358	9.8	403,591	13.3	114
7/10/2025	13:15:00	7.3	2.362	4.5	403,639	13.5	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	13:30:00	7.3	2.324	6.5	403,674	13.6	114
7/10/2025	14:00:00	7.3	2.407	2.6	403,721	13.7	115
7/10/2025	14:15:00	7.3	2.403	2.8	403,757	13.7	114
7/10/2025	14:30:00	7.3	1.919	5.2	403,786	13.9	117
7/10/2025	15:00:00	7.3	2.426	4.3	403,842	13.9	117
7/10/2025	15:15:00	7.4	2.369	7.7	403,870	13.9	117
7/10/2025	15:45:00	7.4	2.411	4.9	403,926	14	117
7/10/2025	16:00:00	7.4	2.422	6.8	403,955	14.1	117
7/10/2025	16:15:00	7.4	2.403	2.9	403,991	14.1	117
7/10/2025	16:45:00	7.4	2.449	9.1	404,040	14.2	117
7/10/2025	17:00:00	7.3	2.430	3.5	404,076	14.2	117
7/10/2025	17:15:00	7.3	2.403	3.6	404,112	14.2	117
7/10/2025	17:30:00	7.3	2.415	3.8	404,141	14.3	257
7/10/2025	17:45:00	7.3	2.407	3.9	404,177	14.2	117
7/10/2025	18:00:00	7.3	2.388	4.2	404,213	14.2	117
7/10/2025	18:45:00	7.3	2.343	4.9	404,274	14.1	117
7/10/2025	19:15:00	7.3	2.388	2.7	404,323	13.9	117
7/10/2025	19:30:00	7.3	2.396	7.5	404,359	13.8	117
7/10/2025	19:45:00	7.3	2.441	12.3	404,386	13.7	116
7/10/2025	20:00:00	7.3	2.430	6.7	404,422	13.7	117
7/10/2025	20:30:00	7.3	2.449	32.2	404,459	13.8	117
7/10/2025	20:45:00	7.3	2.445	8.6	404,483	13.6	117
7/10/2025	21:00:00	7.3	2.445	8.8	404,519	13.5	114
7/10/2025	21:15:00	7.3	2.479	12.3	404,544	13.4	114
7/10/2025	21:30:00	7.3	2.456	4	404,581	13.4	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	21:45:00	7.3	2.422	4.4	404,618	13.3	114
7/10/2025	22:00:00	7.3	0.390	9.6	404,647	13.4	114
7/10/2025	22:15:00	7.3	2.445	4.6	404,675	13.3	114
7/10/2025	22:30:00	7.3	0.170	5.3	404,706	13.5	114
7/10/2025	22:45:00	7.3	2.445	19.5	404,718	13.4	264
7/10/2025	23:00:00	7.3	0.269	209.6	404,737	14.4	114
7/10/2025	23:15:00	7.3	2.472	9.2	404,773	13.2	115
7/10/2025	23:30:00	7.3	2.343	25.2	404,802	13.1	114
7/10/2025	23:45:00	7.3	2.388	6.4	404,825	13.1	114
7/11/2025	0:00:00	7.3	2.388	8.5	404,861	13.1	116
7/11/2025	0:15:00	7.3	2.426	13.2	404,892	13.2	116
7/11/2025	0:30:00	7.3	2.403	8.9	404,928	13.1	117
7/11/2025	0:45:00	7.3	0.439	11.2	404,964	13.1	117
7/11/2025	1:00:00	7.3	2.400	26.4	404,972	13.8	258
7/11/2025	1:15:00	7.3	0.257	76.9	404,988	14.4	114
7/11/2025	1:30:00	7.3	2.400	14.3	405,022	13	114
7/11/2025	1:45:00	7.3	2.415	15.7	405,053	13	114
7/11/2025	2:00:00	7.3	2.400	8.6	405,089	13	115
7/11/2025	2:15:00	7.3	2.407	13.5	405,125	13	117
7/11/2025	2:45:00	7.3	2.475	11.5	405,189	13.2	117
7/11/2025	3:00:00	7.3	2.483	12.2	405,226	13.2	117
7/11/2025	3:15:00	7.3	2.358	8.5	405,252	13.2	117
7/11/2025	3:30:00	7.3	2.377	2.8	405,274	13.4	117
7/11/2025	3:45:00	7.3	2.366	3.2	405,310	13.5	118
7/11/2025	4:00:00	7.3	2.502	7.8	405,320	13.6	118

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	4:15:00	7.3	2.445	4.4	405,351	13.5	117
7/11/2025	4:30:00	7.3	2.434	6.3	405,388	13.4	116
7/11/2025	4:45:00	7.3	2.468	10.6	405,416	13.3	116
7/11/2025	5:00:00	7.3	2.479	8.3	405,452	13.2	116
7/11/2025	5:30:00	7.3	2.449	11.5	405,503	13.2	117
7/11/2025	5:45:00	7.3	2.456	9.5	405,540	13.1	117
7/11/2025	6:30:00	7.3	2.472	5.3	405,600	13.1	116
7/11/2025	7:00:00	7.3	2.460	10.1	405,651	13	114
7/11/2025	7:15:00	7.3	2.415	9.4	405,688	12.9	115
7/11/2025	7:30:00	7.3	2.396	2.6	405,724	12.8	114
7/11/2025	7:45:00	7.2	2.453	5.5	405,743	12.9	114
7/11/2025	8:00:00	7.2	2.434	2.5	405,780	12.7	114
7/11/2025	8:30:00	7.2	2.453	8.3	405,831	12.8	114
7/11/2025	8:45:00	7.2	2.392	5.5	405,867	12.7	114
7/11/2025	9:00:00	7.2	2.362	8.2	405,902	12.8	114
7/11/2025	9:15:00	7.2	2.430	11.8	405,919	12.9	114
7/11/2025	9:30:00	7.3	2.403	8.8	405,956	12.9	114
7/11/2025	9:45:00	7.3	2.377	10.5	405,992	13	114
7/11/2025	10:00:00	7.3	2.456	11.5	406,007	13.2	114
7/11/2025	10:15:00	7.3	2.173	18.5	406,036	13.1	114
7/11/2025	10:45:00	7.3	2.464	5.2	406,090	13.3	114
7/11/2025	11:15:00	7.3	2.479	1.2	406,144	13.4	116
7/11/2025	11:30:00	7.3	2.468	1	406,181	13.5	117
7/11/2025	12:00:00	7.4	2.491	1.9	406,239	13.6	117
7/11/2025	12:15:00	7.4	2.449	3.1	406,276	13.6	258

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	12:30:00	7.4	2.479	4.8	406,307	13.8	257
7/11/2025	13:00:00	7.3	2.483	4.5	406,366	13.8	259
7/11/2025	13:15:00	7.3	2.502	8.2	406,396	14	257
7/11/2025	13:30:00	7.3	2.491	2.6	406,421	14.1	257
7/11/2025	13:45:00	7.3	2.456	5.9	406,458	14.1	257
7/11/2025	14:00:00	7.3	2.483	5.7	406,490	14.3	257
7/11/2025	14:15:00	7.3	2.453	4.2	406,527	14.2	257
7/11/2025	14:30:00	7.3	2.407	5.2	406,563	14.3	257
7/11/2025	15:00:00	7.3	2.464	2.5	406,611	14.4	259
7/11/2025	15:15:00	7.3	2.419	3.7	406,648	14.4	259
7/11/2025	15:30:00	7.3	2.426	5.9	406,679	14.5	259
7/11/2025	16:00:00	7.3	2.411	2.9	406,735	14.3	261
7/11/2025	16:15:00	7.4	2.407	37.6	406,753	14.5	261
7/11/2025	16:45:00	7.3	2.400	2	406,801	14.3	261
7/11/2025	17:15:00	7.4	2.396	4.2	406,843	14.4	261
7/11/2025	17:30:00	7.3	2.377	3.4	406,879	14.5	262
7/11/2025	17:45:00	7.3	2.430	15.9	406,897	14.9	263
7/11/2025	18:00:00	7.3	2.385	3.2	406,933	14.6	263
7/11/2025	18:15:00	7.3	2.385	3.7	406,951	14.6	263
7/11/2025	18:30:00	7.3	2.441	7.9	406,980	14.6	263
7/11/2025	18:45:00	7.4	2.403	2.9	407,017	14.6	263
7/11/2025	19:00:00	7.4	2.385	2	407,053	14.6	265
7/11/2025	19:15:00	7.4	2.422	11.9	407,083	14.7	267
7/11/2025	19:30:00	7.4	2.403	5.9	407,120	14.4	267
7/11/2025	20:15:00	7.3	2.419	3	407,189	14.1	267

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	20:30:00	7.3	2.411	1.8	407,210	14.1	264
7/11/2025	20:45:00	7.4	2.403	9.2	407,240	14.1	263
7/11/2025	21:30:00	7.4	2.536	12.9	407,273	13.7	270
7/11/2025	21:45:00	7.3	2.491	2.5	407,310	13.9	271
7/11/2025	22:00:00	7.3	2.445	2.9	407,347	13.9	271
7/11/2025	22:30:00	7.4	2.464	3.3	407,397	14.2	266
7/11/2025	22:45:00	7.4	2.430	2.2	407,434	14.2	269
7/11/2025	23:00:00	7.4	2.502	15.9	407,446	14.4	264
7/11/2025	23:30:00	7.4	2.426	4.6	407,483	14.3	266
7/12/2025	0:00:00	7.4	2.434	4.7	407,530	14.3	269
7/12/2025	0:30:00	7.3	2.445	10.6	407,578	14	273
7/12/2025	1:00:00	7.3	2.426	4.5	407,634	14	272
7/12/2025	1:30:00	7.3	2.426	5.1	407,686	14	272
7/12/2025	1:45:00	7.3	2.403	4.8	407,723	14	272
7/12/2025	2:00:00	7.3	2.536	11.5	407,740	13.9	272
7/12/2025	2:15:00	7.3	2.521	5.1	407,759	14	270
7/12/2025	2:30:00	7.3	2.487	6.6	407,797	14	273
7/12/2025	3:00:00	7.3	2.483	4.1	407,854	14	273
7/12/2025	3:15:00	7.3	2.449	4.4	407,891	14	275
7/12/2025	3:45:00	7.3	2.479	1.4	407,942	13.9	270
7/12/2025	4:00:00	7.3	2.483	3	407,950	14.5	268
7/12/2025	4:45:00	7.3	1.109	9.3	408,012	13.5	268
7/12/2025	5:00:00	7.3	2.456	4.4	408,041	13.4	264
7/12/2025	5:15:00	7.2	2.422	1.7	408,077	13.3	264
7/12/2025	5:30:00	7.3	1.355	16.4	408,106	13.3	268

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	5:45:00	7.3	2.426	3.1	408,141	13.4	271
7/12/2025	6:00:00	7.3	2.419	4	408,177	13.5	272
7/12/2025	6:15:00	7.3	1.840	5.2	408,206	13.6	273
7/12/2025	6:30:00	7.3	2.415	2.4	408,241	13.5	268
7/12/2025	7:00:00	7.3	1.824	8.8	408,286	13.6	265
7/12/2025	7:15:00	7.3	2.445	4.7	408,319	13.4	267
7/12/2025	7:45:00	7.3	1.783	16.9	408,361	13.4	266
7/12/2025	8:00:00	7.3	2.373	7.9	408,396	13.2	266
7/12/2025	8:15:00	7.3	2.362	9.8	408,431	13.2	266
7/12/2025	8:30:00	7.3	1.506	19.4	408,456	13.3	266
7/12/2025	8:45:00	7.3	2.396	7.3	408,491	13.4	268
7/12/2025	9:00:00	7.3	2.373	7.6	408,527	13.5	268
7/12/2025	9:15:00	7.3	1.677	10.6	408,550	13.8	270
7/12/2025	9:30:00	7.3	2.373	5	408,585	14	273
7/12/2025	9:45:00	7.3	2.335	3.2	408,620	14.1	278
7/12/2025	10:15:00	7.4	2.381	2.2	408,671	14.2	283
7/12/2025	10:45:00	7.4	1.628	4.2	408,701	14.3	285
7/12/2025	11:00:00	7.4	2.381	2.1	408,736	14.1	283
7/12/2025	11:15:00	7.3	2.381	2.3	408,760	14.2	282
7/12/2025	11:30:00	7.3	1.843	10.1	408,789	14.2	282
7/12/2025	11:45:00	7.3	2.396	1.5	408,825	14.2	278
7/12/2025	12:00:00	7.3	2.388	1.4	408,860	14.3	277
7/12/2025	12:15:00	7.3	1.711	1.5	408,888	14.4	279
7/12/2025	12:30:00	7.3	2.509	0.5	408,925	14.5	279
7/12/2025	12:45:00	7.3	2.460	1.1	408,962	14.5	276

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	13:00:00	7.3	1.881	7.5	408,993	14.8	276
7/12/2025	13:15:00	7.3	2.438	0.9	409,030	14.6	272
7/12/2025	13:45:00	7.3	1.911	8.3	409,082	14.9	272
7/12/2025	14:00:00	7.3	2.464	5.4	409,118	14.6	272
7/12/2025	14:15:00	7.3	2.460	2	409,142	14.6	271
7/12/2025	14:45:00	7.2	2.483	3.6	409,199	14.5	272
7/12/2025	15:00:00	7.2	2.460	9.5	409,236	14.4	272
7/12/2025	15:15:00	7.2	1.866	13.7	409,254	14.6	272
7/12/2025	15:45:00	7.2	2.396	14.6	409,310	14.1	267
7/12/2025	16:00:00	7.3	2.419	14.4	409,327	15.6	263
7/12/2025	16:30:00	7.3	2.358	3.7	409,379	14.2	263
7/12/2025	16:45:00	7.3	2.328	3.5	409,414	14.2	266
7/12/2025	17:00:00	7.4	2.381	9.6	409,431	14.6	264
7/12/2025	17:15:00	7.4	2.369	4.3	409,467	14.2	261
7/12/2025	17:30:00	7.4	2.332	9.4	409,502	14.2	264
7/12/2025	18:00:00	7.4	2.354	9.1	409,548	14.1	266
7/12/2025	18:15:00	7.4	2.350	8.9	409,583	14	264
7/12/2025	18:45:00	7.3	2.385	6.3	409,630	13.9	261
7/12/2025	19:00:00	7.3	2.305	7.2	409,665	13.9	261
7/12/2025	19:30:00	7.3	2.403	7.3	409,713	13.8	261
7/12/2025	19:45:00	7.3	2.415	7.3	409,730	13.9	262
7/12/2025	20:15:00	7.3	2.430	13.9	409,778	13.7	260
7/12/2025	20:45:00	7.3	2.290	13.6	409,821	13.6	262
7/12/2025	21:00:00	7.3	2.350	0.5	409,846	13.7	116
7/12/2025	21:15:00	7.3	2.445	5.1	409,877	14.4	263

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	21:30:00	7.3	2.411	3.7	409,914	13.5	263
7/12/2025	21:45:00	7.3	2.434	5.1	409,950	13.4	263
7/12/2025	22:00:00	7.3	2.453	14.6	409,973	14	261
7/12/2025	22:15:00	7.3	0.189	0	410,002	13.7	114
7/12/2025	22:30:00	7.3	2.430	4.3	410,024	13.3	258
7/12/2025	22:45:00	7.3	2.456	10.5	410,035	13.3	261
7/12/2025	23:00:00	7.3	2.419	4.1	410,072	13.2	261
7/12/2025	23:30:00	7.3	2.453	7.6	410,126	14	258
7/12/2025	23:45:00	7.3	2.434	4.4	410,163	13.3	258
7/13/2025	0:00:00	7.3	2.415	6.2	410,199	13.4	263
7/13/2025	0:15:00	7.3	2.449	12.1	410,232	14.1	267
7/13/2025	0:30:00	7.3	2.445	6.9	410,268	13.5	263
7/13/2025	0:45:00	7.3	2.475	7.2	410,291	13.6	266
7/13/2025	1:00:00	7.4	2.226	6.5	410,319	13.7	266
7/13/2025	1:15:00	7.3	2.377	2.3	410,355	13.3	267
7/13/2025	1:30:00	7.3	2.358	3.4	410,390	13.2	268
7/13/2025	1:45:00	7.3	2.373	3.6	410,419	13.3	268
7/13/2025	2:00:00	7.4	2.354	3.6	410,455	13.2	265
7/13/2025	2:15:00	7.4	2.358	3.9	410,470	13.5	266
7/13/2025	2:45:00	7.4	2.335	4.5	410,523	13.2	264
7/13/2025	3:00:00	7.4	2.316	3.7	410,558	13.2	264
7/13/2025	3:15:00	7.4	2.332	5.2	410,587	13.2	265
7/13/2025	3:30:00	7.4	2.309	2.8	410,622	13.1	264
7/13/2025	3:45:00	7.4	2.275	4	410,656	13.1	264
7/13/2025	4:00:00	7.4	2.309	6.6	410,685	13.3	264

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	4:15:00	7.4	2.347	2	410,705	13.5	266
7/13/2025	4:45:00	7.4	2.350	2.8	410,755	13.3	267
7/13/2025	5:00:00	7.3	2.332	1.6	410,790	13.1	264
7/13/2025	5:15:00	7.3	2.581	1.9	410,829	13.1	264
7/13/2025	5:45:00	7.3	2.536	5.1	410,847	13.9	258
7/13/2025	6:00:00	7.3	2.483	4.6	410,884	13.1	259
7/13/2025	6:15:00	7.4	0.276	5.7	410,908	13.7	114
7/13/2025	6:30:00	7.3	2.502	3.5	410,944	13	259
7/13/2025	6:45:00	7.3	2.460	3.9	410,981	12.9	259
7/13/2025	7:00:00	7.3	2.528	14.4	411,003	13.9	258
7/13/2025	7:15:00	7.3	2.509	7.1	411,040	12.9	115
7/13/2025	7:30:00	7.3	2.460	1.9	411,077	12.8	114
7/13/2025	7:45:00	7.3	2.502	7.8	411,101	13.1	114
7/13/2025	8:00:00	7.3	2.468	1.5	411,139	12.8	114
7/13/2025	8:15:00	7.3	2.438	5.2	411,175	12.8	114
7/13/2025	8:30:00	7.3	2.491	9.8	411,196	13.2	114
7/13/2025	8:45:00	7.3	1.730	10.2	411,231	13	114
7/13/2025	9:00:00	7.3	0.530	5.1	411,264	12.8	114
7/13/2025	9:15:00	7.3	2.456	6.1	411,287	12.9	115
7/13/2025	9:30:00	7.3	1.847	18.3	411,322	13	114
7/13/2025	9:45:00	7.3	2.441	4.4	411,347	13	114
7/13/2025	10:00:00	7.3	2.419	5.8	411,383	13.2	114
7/13/2025	10:15:00	7.3	1.893	17.3	411,403	13.7	114
7/13/2025	10:30:00	7.3	2.445	8.3	411,437	13.3	114
7/13/2025	10:45:00	7.3	0.174	95	411,469	13.5	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	11:00:00	7.3	1.889	21.3	411,493	13.5	114
7/13/2025	11:15:00	7.4	0.223	7.6	411,520	13.8	116
7/13/2025	11:30:00	7.3	2.438	4.6	411,552	13.4	117
7/13/2025	11:45:00	7.3	1.809	7.9	411,571	13.6	116
7/13/2025	12:00:00	7.3	2.438	3.2	411,605	13.6	258
7/13/2025	12:15:00	7.3	2.415	3.4	411,641	13.7	258
7/13/2025	12:30:00	7.4	1.840	18	411,662	14.8	116
7/13/2025	12:45:00	7.3	2.449	4.1	411,696	13.9	260
7/13/2025	13:30:00	7.3	2.445	0.6	411,785	14.1	265
7/13/2025	14:00:00	7.3	1.866	17.4	411,843	14.3	265
7/13/2025	14:15:00	7.3	2.453	3.2	411,860	14.3	265
7/13/2025	14:30:00	7.3	2.468	3.1	411,881	14.4	266
7/13/2025	14:45:00	7.3	1.847	8.7	411,916	14.6	266
7/13/2025	15:00:00	7.3	2.487	1.5	411,937	14.5	266
7/13/2025	15:15:00	7.3	2.426	2.7	411,974	14.4	266
7/13/2025	15:45:00	7.3	2.422	2.1	412,030	14.4	264
7/13/2025	16:30:00	7.3	2.426	1	412,114	14.6	264
7/13/2025	17:00:00	7.3	1.749	20.9	412,163	15	267
7/13/2025	17:15:00	7.3	2.419	0.9	412,196	14.8	267
7/13/2025	17:30:00	7.3	2.381	1.9	412,224	14.7	267
7/13/2025	17:45:00	7.3	1.805	10.1	412,244	15.1	269
7/13/2025	18:00:00	7.3	2.426	2.1	412,278	14.7	266
7/13/2025	18:45:00	7.3	2.434	3.1	412,348	14.5	264
7/13/2025	19:00:00	7.3	2.415	4.6	412,370	14.6	264
7/13/2025	19:15:00	7.3	1.824	9.9	412,404	14.5	262

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	19:30:00	7.3	2.419	7.7	412,437	14.3	262
7/13/2025	19:45:00	7.3	2.381	7.9	412,473	14.3	264
7/13/2025	20:15:00	7.3	2.441	7.2	412,492	14.3	262
7/13/2025	21:00:00	7.3	2.453	6.8	412,540	15.1	264
7/13/2025	21:30:00	7.3	1.802	12.8	412,594	14.6	267
7/13/2025	21:45:00	7.3	2.445	3.7	412,618	14.4	267
7/13/2025	22:00:00	7.3	2.385	3.8	412,655	14.4	267
7/13/2025	22:30:00	7.3	2.392	3	412,718	14.3	268
7/13/2025	22:45:00	7.3	2.385	2.6	412,754	14.4	272
7/13/2025	23:15:00	7.3	2.403	3.3	412,806	14.5	272
7/13/2025	23:30:00	7.3	2.373	2.4	412,842	14.4	270
7/13/2025	23:45:00	7.2	2.025	10.5	412,875	14.3	270

Table 3. In-Situ Parameters

Date	Temperature °C	DO mg/L	Conductivity SPC-uS/cm	SAL-ppt	pH	ORP (mV)	NTU
07/07/2025	13.9	10.41	142.8	0.07	7.31	151.8	2.10
07/08/2025	13.8	10.48	136.1	0.06	7.65	149.1	4.07
07/09/2025	15.0	10.90	136.3	0.06	7.31	153.3	2.85
07/10/2025	14.8	10.46	151.4	0.06	7.29	139.9	1.48
07/11/2025	12.2	11.11	103.6	0.06	7.78	131.6	3.50
07/12/2025	13.1	11.25	136.12	0.06	7.41	150.0	2.87
07/13/2025	14.0	10.39	129.30	0.06	7.01	129.7	2.91

3. Calibration Log:

Table 4. Calibration Log

Date	Unit	pH	Conductivity/Temp.	Salinity	NTU
07/08/2025	YSI	✓	✓	✓	✓
07/08/2025	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)
7/7/2025	0:00:00	7.2	2.445	3.3	394,017	Open	12.8	268
7/7/2025	0:15:00	7.3	1.567	11.7	394,047	Open	12.7	269
7/7/2025	0:30:00	6.9	2.551	2.4	394,078	Open	12.7	269
7/7/2025	0:45:00	7.2	0.000	2.7	394,115	Closed	12.7	269
7/7/2025	1:00:00	7.2	2.578	2.9	394,130	Open	12.8	114
7/7/2025	1:15:00	7.2	2.684	4.5	394,139	Closed	13	117
7/7/2025	1:30:00	7.3	2.763	1.5	394,139	Closed	13.5	119
7/7/2025	1:45:00	7.6	0.662	398.8	394,139	Closed	18	121
7/7/2025	2:00:00	7.4	1.734	3.5	394,154	Open	13.5	259
7/7/2025	2:15:00	7.3	2.562	1.6	394,171	Open	14.2	119
7/7/2025	2:30:00	7.2	2.536	2.8	394,209	Open	13.4	117
7/7/2025	2:45:00	7.2	2.528	2.5	394,247	Open	13.2	116
7/7/2025	3:00:00	7.2	2.472	3.6	394,284	Open	13.1	117
7/7/2025	3:15:00	7.2	2.494	2.8	394,304	Open	13	116
7/7/2025	3:30:00	7.3	1.427	68.8	394,335	Open	13.1	267
7/7/2025	3:45:00	7.5	0.246	18.8	394,344	Closed	14	116
7/7/2025	4:00:00	7.3	2.002	3.6	394,371	Open	12.9	266
7/7/2025	4:15:00	7.3	0.144	0.2	394,399	Closed	13	114
7/7/2025	4:30:00	7.2	2.521	2.5	394,422	Open	12.8	114
7/7/2025	4:45:00	7.2	2.464	2.9	394,459	Open	12.8	116
7/7/2025	5:00:00	7.2	2.441	2.7	394,478	Open	12.8	265
7/7/2025	5:15:00	7.2	2.422	3.4	394,515	Open	13.1	262
7/7/2025	5:30:00	7.2	2.362	4	394,550	Open	13.4	121
7/7/2025	5:45:00	7.3	0.136	0	394,578	Closed	14.2	120

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	6:00:00	7.3	2.297	21.4	394,593	Open	13.7	121
7/7/2025	6:15:00	7.3	0.000	1.2	394,620	Closed	13.9	119
7/7/2025	6:30:00	7.2	2.536	1.8	394,648	Open	13.6	261
7/7/2025	6:45:00	7.2	2.491	2.3	394,685	Open	13.6	262
7/7/2025	7:00:00	7.2	2.464	2.8	394,722	Open	13.5	258
7/7/2025	7:15:00	7.2	0.265	4.8	394,741	Closed	13.3	118
7/7/2025	7:30:00	7.3	2.566	3.4	394,767	Open	13.1	116
7/7/2025	7:45:00	7.2	2.612	2.8	394,796	Open	13	114
7/7/2025	8:00:00	7.3	0.197	1.2	394,824	Open	13.5	114
7/7/2025	8:15:00	7.2	2.581	3.9	394,858	Open	12.9	115
7/7/2025	8:30:00	7.3	2.562	3	394,881	Open	13	116
7/7/2025	8:45:00	7.3	1.737	9.3	394,912	Open	12.9	114
7/7/2025	9:00:00	7.3	2.392	3.9	394,933	Open	12.8	262
7/7/2025	9:15:00	7.2	2.403	7	394,968	Open	12.8	263
7/7/2025	9:30:00	7.2	2.400	6.1	394,999	Open	12.9	263
7/7/2025	9:45:00	7.3	2.415	6.4	395,035	Open	12.8	263
7/7/2025	10:00:00	7.4	1.817	15	395,055	Open	13.9	260
7/7/2025	10:15:00	7.3	2.434	2.2	395,088	Open	12.9	116
7/7/2025	10:30:00	7.4	2.438	4.4	395,124	Open	12.9	116
7/7/2025	10:45:00	7.4	1.889	20	395,154	Open	13.2	260
7/7/2025	11:00:00	7.4	0.000	3.5	395,179	Closed	13.6	258
7/7/2025	11:15:00	7.3	2.475	4.2	395,215	Open	13.1	117
7/7/2025	11:30:00	7.4	2.354	5.3	395,241	Open	13.1	117
7/7/2025	11:45:00	7.4	2.339	4.6	395,276	Open	13.2	117
7/7/2025	12:00:00	7.4	1.643	34.5	395,306	Closed	13.3	116

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	12:15:00	7.4	2.335	3	395,336	Open	13.3	117
7/7/2025	12:30:00	7.4	2.350	26.7	395,356	Closed	13.9	257
7/7/2025	12:45:00	7.4	1.832	6.1	395,374	Open	14.4	260
7/7/2025	13:00:00	7.4	0.466	4.1	395,409	Open	13.8	261
7/7/2025	13:15:00	7.4	2.528	4.4	395,415	Open	13.8	257
7/7/2025	13:30:00	7.3	2.540	5.1	395,447	Open	13.6	259
7/7/2025	13:45:00	7.3	2.513	8.6	395,485	Open	13.6	261
7/7/2025	14:00:00	7.3	1.593	18.1	395,515	Open	13.6	261
7/7/2025	14:15:00	7.3	2.513	6.8	395,548	Open	13.6	261
7/7/2025	14:30:00	7.3	2.494	2.4	395,585	Open	13.6	261
7/7/2025	14:45:00	7.4	1.870	6.6	395,618	Open	13.8	264
7/7/2025	15:00:00	7.4	2.475	2.3	395,655	Open	13.7	261
7/7/2025	15:15:00	7.4	2.445	1.7	395,691	Open	13.6	261
7/7/2025	15:30:00	7.4	2.445	1.8	395,723	Open	13.7	259
7/7/2025	15:45:00	7.4	2.449	3.5	395,760	Open	13.6	259
7/7/2025	16:00:00	7.4	0.307	19.2	395,793	Open	13.7	117
7/7/2025	16:15:00	7.4	0.280	372.9	395,797	Open	16.5	117
7/7/2025	16:30:00	7.4	2.483	4.3	395,829	Open	13.7	117
7/7/2025	16:45:00	7.5	1.734	36.8	395,833	Closed	16.1	252
7/7/2025	17:00:00	7.4	2.487	5.4	395,867	Open	13.5	118
7/7/2025	17:15:00	7.4	2.468	4.6	395,905	Open	13.4	117
7/7/2025	17:30:00	7.4	2.475	3.7	395,933	Open	13.3	117
7/7/2025	17:45:00	7.4	2.456	4.5	395,970	Open	13.2	117
7/7/2025	18:00:00	7.5	0.000	2.5	395,989	Closed	13.9	257
7/7/2025	18:15:00	7.4	2.509	3.9	396,015	Open	13.4	257

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/7/2025	18:30:00	7.4	2.483	5.4	396,053	Open	13.4	259
7/7/2025	18:45:00	7.4	0.000	5.3	396,075	Closed	13.7	261
7/7/2025	19:00:00	7.4	2.509	3.6	396,087	Open	13.5	261
7/7/2025	19:15:00	7.3	2.509	4.2	396,124	Open	13.3	261
7/7/2025	19:30:00	7.3	2.441	2.5	396,153	Open	13.3	262
7/7/2025	19:45:00	7.3	2.419	3	396,189	Open	13.2	262
7/7/2025	20:00:00	7.3	1.730	12.2	396,220	Open	13.2	262
7/7/2025	20:15:00	7.3	0.000	4.3	396,251	Closed	13.1	262
7/7/2025	20:30:00	7.3	2.407	3	396,265	Open	13	263
7/7/2025	20:45:00	7.3	2.396	3.5	396,301	Open	12.9	263
7/7/2025	21:00:00	7.3	2.373	4.5	396,337	Open	12.9	265
7/7/2025	21:15:00	7.3	2.339	5.8	396,372	Open	12.8	265
7/7/2025	21:30:00	7.3	2.290	7.6	396,379	Closed	13.7	262
7/7/2025	21:45:00	7.3	2.472	3.9	396,400	Open	12.8	263
7/7/2025	22:00:00	7.3	2.426	3.8	396,437	Open	12.9	263
7/7/2025	22:15:00	7.3	2.396	4.6	396,473	Open	12.9	262
7/7/2025	22:30:00	7.3	2.396	4.8	396,509	Open	13	261
7/7/2025	22:45:00	7.3	2.350	4.2	396,544	Open	13	263
7/7/2025	23:00:00	7.4	2.434	16.2	396,567	Open	13.1	265
7/7/2025	23:15:00	7.4	2.252	12.4	396,599	Open	13.2	261
7/7/2025	23:30:00	7.4	2.517	5	396,622	Open	13.1	262
7/7/2025	23:45:00	7.5	2.699	8.5	396,657	Open	13.2	265
7/8/2025	0:00:00	7.6	0.000	2.7	396,676	Closed	13.6	267
7/8/2025	0:15:00	7.6	1.881	5.2	396,692	Open	13.1	268
7/8/2025	0:30:00	7.6	2.517	3.9	396,706	Closed	13.9	268

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	0:45:00	7.6	2.661	2	396,745	Open	13.1	270
7/8/2025	1:00:00	7.5	2.608	1.7	396,785	Open	13.1	270
7/8/2025	1:15:00	7.5	2.135	4	396,823	Open	13.1	270
7/8/2025	1:30:00	7.5	0.000	1.3	396,843	Closed	13.5	268
7/8/2025	1:45:00	7.5	2.653	1.5	396,872	Open	13	270
7/8/2025	2:00:00	7.5	2.627	5.3	396,911	Open	13.1	270
7/8/2025	2:15:00	7.6	0.000	0.5	396,939	Closed	13.8	266
7/8/2025	2:30:00	7.5	2.661	0.2	396,970	Open	13.7	264
7/8/2025	2:45:00	7.5	2.631	2.4	397,006	Open	13.9	266
7/8/2025	3:00:00	7.5	0.000	0.1	397,037	Closed	14.1	264
7/8/2025	3:15:00	7.5	2.657	0.2	397,060	Open	13.9	266
7/8/2025	3:30:00	7.5	0.000	0.1	397,084	Closed	14.8	264
7/8/2025	3:45:00	7.5	2.544	0.8	397,084	Closed	15.1	264
7/8/2025	4:00:00	7.5	2.672	0.2	397,118	Open	13.9	264
7/8/2025	4:15:00	7.4	2.676	0	397,158	Open	13.9	263
7/8/2025	4:30:00	7.4	2.687	0.4	397,194	Open	14	263
7/8/2025	4:45:00	7.5	0.000	0.2	397,228	Closed	14.1	262
7/8/2025	5:00:00	7.5	2.650	0.2	397,250	Open	14	263
7/8/2025	5:15:00	7.4	2.184	1.7	397,287	Open	14.1	262
7/8/2025	5:30:00	7.4	0.000	0.4	397,313	Closed	14.4	262
7/8/2025	5:45:00	7.4	2.684	0.5	397,342	Open	13.7	262
7/8/2025	6:00:00	7.4	2.176	1.9	397,381	Open	13.6	261
7/8/2025	6:15:00	7.4	0.000	1	397,395	Closed	14.6	264
7/8/2025	6:30:00	7.4	2.699	0.6	397,432	Open	13.4	261
7/8/2025	6:45:00	7.4	0.738	0.7	397,471	Closed	13.3	262

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	7:00:00	7.4	2.691	0.7	397,478	Open	13.6	265
7/8/2025	7:15:00	7.4	2.676	0.6	397,518	Open	13.3	264
7/8/2025	7:30:00	7.3	2.676	0.8	397,558	Open	13.2	265
7/8/2025	7:45:00	7.4	0.000	0.8	397,583	Closed	13.6	264
7/8/2025	8:00:00	7.3	2.672	0.8	397,614	Open	13.1	265
7/8/2025	8:15:00	7.3	2.657	0.8	397,654	Open	13	265
7/8/2025	8:30:00	7.4	2.608	0.8	397,667	Open	13.4	267
7/8/2025	8:45:00	7.3	2.593	0.2	397,700	Open	12.9	265
7/8/2025	9:00:00	7.2	2.509	0.2	397,732	Open	13.3	265
7/8/2025	9:15:00	7.2	2.487	0.4	397,769	Open	12.9	267
7/8/2025	9:30:00	7.3	2.498	3	397,779	Open	13.5	267
7/8/2025	9:45:00	7.2	2.509	0.7	397,817	Open	13	265
7/8/2025	10:00:00	7.3	2.441	0.6	397,854	Open	13	265
7/8/2025	10:15:00	7.4	1.722	15.3	397,869	Open	13.7	265
7/8/2025	10:30:00	7.3	2.422	0.4	397,902	Open	13	263
7/8/2025	10:45:00	7.4	2.426	0.5	397,938	Open	13.1	263
7/8/2025	11:00:00	7.4	2.392	0.4	397,974	Open	13.1	263
7/8/2025	11:15:00	7.4	0.000	2.8	397,993	Closed	13.7	262
7/8/2025	11:30:00	7.4	2.653	0.6	397,994	Open	13.5	260
7/8/2025	11:45:00	7.4	2.767	0.5	398,034	Open	13.3	262
7/8/2025	12:00:00	7.3	2.358	4.2	398,074	Open	13.4	260
7/8/2025	12:15:00	7.3	2.544	0.5	398,114	Open	13.2	260
7/8/2025	12:30:00	7.4	2.525	0.8	398,151	Open	13.2	260
7/8/2025	12:45:00	7.4	2.506	0.9	398,189	Open	13.3	260
7/8/2025	13:00:00	7.5	0.000	2.2	398,205	Closed	14	260

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Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	13:15:00	7.4	2.574	1	398,239	Open	13.5	260
7/8/2025	13:30:00	7.4	2.555	0.7	398,278	Open	13.5	260
7/8/2025	13:45:00	7.4	2.195	0.9	398,311	Open	13.5	260
7/8/2025	14:00:00	7.4	0.901	16.3	398,345	Open	13.6	264
7/8/2025	14:15:00	7.4	0.000	4.8	398,361	Closed	14.1	265
7/8/2025	14:30:00	7.4	2.483	3.7	398,388	Open	13.5	265
7/8/2025	14:45:00	7.4	1.790	7.4	398,419	Open	13.4	263
7/8/2025	15:00:00	7.4	2.411	4.6	398,453	Open	13.2	263
7/8/2025	15:15:00	7.4	0.000	2.4	398,473	Closed	13.7	263
7/8/2025	15:30:00	7.4	2.426	3.2	398,490	Open	13.3	262
7/8/2025	15:45:00	7.4	2.388	3	398,526	Open	13.1	263
7/8/2025	16:00:00	7.4	1.726	24.7	398,561	Open	13.1	263
7/8/2025	16:15:00	7.4	2.392	3.4	398,591	Open	13.1	262
7/8/2025	16:30:00	7.4	2.426	4.8	398,627	Open	13.1	262
7/8/2025	16:45:00	7.5	0.000	5.3	398,652	Closed	13.4	262
7/8/2025	17:00:00	7.5	2.517	3.6	398,675	Open	13.3	263
7/8/2025	17:15:00	7.5	2.464	3.4	398,712	Open	13.3	265
7/8/2025	17:30:00	7.5	2.483	6.1	398,741	Open	13.4	263
7/8/2025	17:45:00	7.5	2.498	7.4	398,759	Open	14.7	117
7/8/2025	18:00:00	7.4	1.836	28	398,796	Open	13.3	117
7/8/2025	18:15:00	7.4	2.472	3.5	398,827	Open	13.3	117
7/8/2025	18:30:00	7.4	2.475	4.3	398,865	Open	13.3	117
7/8/2025	18:45:00	7.4	0.000	6.8	398,894	Closed	13.7	117
7/8/2025	19:00:00	7.4	2.487	4.3	398,916	Open	13.3	116
7/8/2025	19:15:00	7.4	2.460	2.9	398,953	Open	13.2	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/8/2025	19:30:00	7.4	2.491	4.4	398,982	Open	13.2	114
7/8/2025	19:45:00	7.4	2.472	12.4	399,000	Open	13.2	114
7/8/2025	20:00:00	7.4	1.624	24.4	399,036	Closed	13	114
7/8/2025	20:15:00	7.4	0.000	4	399,045	Closed	13.8	114
7/8/2025	20:30:00	7.4	2.369	5.3	399,066	Open	12.9	114
7/8/2025	20:45:00	7.4	2.335	3	399,102	Open	12.9	114
7/8/2025	21:00:00	7.4	2.377	2.3	399,117	Open	12.9	115
7/8/2025	21:15:00	7.4	2.430	2.8	399,153	Open	12.8	114
7/8/2025	21:30:00	7.4	2.381	3.3	399,189	Open	13	114
7/8/2025	21:45:00	7.4	2.373	3.5	399,225	Open	13	114
7/8/2025	22:00:00	7.4	0.000	1.7	399,249	Closed	13.1	114
7/8/2025	22:15:00	7.4	2.434	2.4	399,271	Open	12.9	114
7/8/2025	22:30:00	7.4	2.434	3.4	399,308	Open	12.8	114
7/8/2025	22:45:00	7.4	0.000	5.5	399,333	Closed	12.8	114
7/8/2025	23:00:00	7.4	2.388	1.5	399,352	Open	12.8	114
7/8/2025	23:15:00	7.4	2.366	2	399,388	Open	12.9	114
7/8/2025	23:30:00	7.4	2.063	6.3	399,421	Open	12.9	114
7/8/2025	23:45:00	7.4	2.377	2	399,452	Open	12.9	116
7/9/2025	0:00:00	7.4	0.000	1.3	399,466	Closed	13.5	116
7/9/2025	0:15:00	7.4	2.354	1.9	399,468	Open	14	116
7/9/2025	0:30:00	7.4	2.438	1.3	399,500	Open	13	116
7/9/2025	0:45:00	7.4	2.415	2.1	399,536	Open	12.9	116
7/9/2025	1:00:00	7.4	0.000	3	399,563	Closed	13.2	116
7/9/2025	1:15:00	7.4	1.851	11.4	399,585	Open	13.1	116
7/9/2025	1:30:00	7.4	2.479	5	399,622	Open	13.1	116

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	1:45:00	7.4	2.456	5.3	399,659	Open	13.2	116
7/9/2025	2:00:00	7.4	1.154	21.4	399,692	Open	13.2	117
7/9/2025	2:15:00	7.5	2.483	371	399,717	Open	14	115
7/9/2025	2:30:00	7.4	0.212	0	399,746	Open	13.9	114
7/9/2025	2:45:00	7.3	2.456	3.6	399,773	Open	13.2	114
7/9/2025	3:00:00	7.3	2.491	3.2	399,806	Open	13.2	115
7/9/2025	3:15:00	7.3	2.472	3.1	399,843	Open	13.3	114
7/9/2025	3:30:00	7.3	2.294	2.3	399,869	Closed	13.3	116
7/9/2025	3:45:00	7.3	1.624	8.9	399,869	Closed	13.6	114
7/9/2025	4:00:00	7.4	2.464	2.9	399,875	Open	13.7	114
7/9/2025	4:15:00	7.3	2.422	2.5	399,912	Open	13.3	115
7/9/2025	4:30:00	7.3	1.870	13.8	399,945	Open	13.3	114
7/9/2025	4:45:00	7.2	2.460	6.6	399,978	Open	13.2	116
7/9/2025	5:00:00	7.3	2.434	5.8	400,015	Open	13.3	116
7/9/2025	5:15:00	7.3	2.415	9.4	400,051	Open	13.4	260
7/9/2025	5:30:00	7.3	2.434	4.8	400,075	Open	13.5	260
7/9/2025	5:45:00	7.4	2.419	7.1	400,112	Open	13.5	261
7/9/2025	6:00:00	7.5	0.261	0	400,140	Closed	13.9	117
7/9/2025	6:15:00	7.5	1.684	61.2	400,140	Closed	15.3	255
7/9/2025	6:30:00	7.4	2.445	4.6	400,173	Open	13.3	117
7/9/2025	6:45:00	7.6	0.269	414.2	400,187	Closed	14.6	117
7/9/2025	7:00:00	7.3	1.673	15	400,207	Open	13.3	116
7/9/2025	7:15:00	7.3	2.415	8.4	400,239	Open	13.2	117
7/9/2025	7:30:00	7.3	2.468	8.4	400,276	Open	13.2	116
7/9/2025	7:45:00	7.4	0.220	1.3	400,309	Closed	13.2	117

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	8:00:00	7.3	2.468	10.2	400,316	Open	13.2	117
7/9/2025	8:15:00	7.3	2.460	16.7	400,354	Open	13.1	116
7/9/2025	8:30:00	7.3	2.438	20.6	400,374	Open	13	114
7/9/2025	8:45:00	7.3	2.472	9.7	400,388	Open	13.2	114
7/9/2025	9:00:00	7.3	2.456	3.1	400,425	Open	13	114
7/9/2025	9:15:00	7.3	0.238	7.2	400,440	Closed	13.7	114
7/9/2025	9:30:00	7.3	2.438	2.7	400,476	Open	13.1	114
7/9/2025	9:45:00	7.3	2.403	3.3	400,512	Open	13	114
7/9/2025	10:00:00	7.3	2.438	6.6	400,541	Open	13	114
7/9/2025	10:15:00	7.3	2.460	2.7	400,557	Open	13.1	114
7/9/2025	10:30:00	7.3	2.434	3.1	400,593	Open	13.1	114
7/9/2025	10:45:00	7.3	2.483	5.4	400,623	Open	13.1	114
7/9/2025	11:00:00	7.3	0.167	2.1	400,655	Closed	13.3	115
7/9/2025	11:15:00	7.2	2.445	4.3	400,677	Open	13.2	114
7/9/2025	11:30:00	7.2	2.453	6.8	400,706	Open	13.3	114
7/9/2025	11:45:00	7.3	2.434	5.6	400,742	Open	13.3	115
7/9/2025	12:00:00	7.3	2.396	6.9	400,778	Open	13.3	114
7/9/2025	12:15:00	7.4	2.392	13.1	400,791	Open	14.1	257
7/9/2025	12:30:00	7.4	1.620	52.5	400,825	Closed	13.4	116
7/9/2025	12:45:00	7.4	2.441	3.1	400,854	Open	13.3	117
7/9/2025	13:00:00	7.4	2.460	4.4	400,873	Open	13.4	117
7/9/2025	13:15:00	7.4	1.646	26.8	400,908	Closed	13.4	117
7/9/2025	13:30:00	7.4	2.456	3.2	400,939	Open	13.4	117
7/9/2025	13:45:00	7.5	2.438	2.4	400,955	Open	13.7	270
7/9/2025	14:00:00	7.5	1.616	15.8	400,989	Closed	13.6	272

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	14:15:00	7.6	0.140	2.6	401,008	Closed	13.9	275
7/9/2025	14:30:00	7.5	2.430	2.5	401,041	Open	13.5	272
7/9/2025	14:45:00	7.5	1.817	12.5	401,076	Open	13.5	272
7/9/2025	15:00:00	7.4	2.441	1.7	401,108	Open	13.5	270
7/9/2025	15:15:00	7.4	2.415	2.3	401,144	Open	13.6	270
7/9/2025	15:30:00	7.4	0.000	3.3	401,167	Closed	14	272
7/9/2025	15:45:00	7.4	2.460	3.3	401,194	Open	13.6	272
7/9/2025	16:00:00	7.4	2.426	3.3	401,230	Open	13.7	272
7/9/2025	16:15:00	7.4	1.699	25.5	401,265	Open	13.8	273
7/9/2025	16:30:00	7.4	2.422	2.1	401,283	Open	13.8	272
7/9/2025	16:45:00	7.3	2.415	1.9	401,319	Open	13.7	272
7/9/2025	17:00:00	7.4	0.000	1.2	401,326	Closed	14.5	273
7/9/2025	17:15:00	7.4	0.000	0.9	401,348	Closed	13.8	272
7/9/2025	17:30:00	7.3	2.415	0.3	401,368	Open	13.8	273
7/9/2025	17:45:00	7.3	1.745	3.7	401,403	Open	13.8	273
7/9/2025	18:00:00	7.3	2.354	0.2	401,435	Open	13.8	273
7/9/2025	18:15:00	7.3	2.332	0	401,470	Open	13.7	272
7/9/2025	18:30:00	7.3	1.646	6.2	401,498	Open	13.8	272
7/9/2025	18:45:00	7.3	0.110	0.6	401,502	Closed	15.7	117
7/9/2025	19:00:00	7.3	2.479	2.9	401,537	Open	13.9	268
7/9/2025	19:15:00	7.3	1.828	4.4	401,570	Open	14	272
7/9/2025	19:30:00	7.3	0.000	2.6	401,605	Closed	13.8	268
7/9/2025	19:45:00	7.3	2.460	1.8	401,617	Open	13.9	270
7/9/2025	20:00:00	7.3	1.889	3.8	401,650	Open	14	270
7/9/2025	20:15:00	7.3	2.464	1.2	401,686	Open	13.8	268

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/9/2025	20:30:00	7.3	2.441	3.1	401,723	Open	13.7	268
7/9/2025	20:45:00	7.3	0.708	6.8	401,754	Closed	13.8	268
7/9/2025	21:00:00	7.2	2.475	1.1	401,771	Open	13.6	267
7/9/2025	21:15:00	7.2	2.441	3.5	401,808	Open	13.5	267
7/9/2025	21:30:00	7.2	2.286	5.6	401,841	Open	13.8	268
7/9/2025	21:45:00	7.2	2.491	2.9	401,878	Open	13.8	268
7/9/2025	22:00:00	7.3	2.453	7.1	401,915	Open	13.8	272
7/9/2025	22:15:00	7.3	1.987	11.1	401,944	Open	13.9	273
7/9/2025	22:30:00	7.3	2.494	2.4	401,955	Open	13.9	273
7/9/2025	22:45:00	7.3	0.000	1.9	401,969	Closed	14.4	273
7/9/2025	23:00:00	7.3	1.927	6.9	401,999	Open	13.9	273
7/9/2025	23:15:00	7.3	2.479	1.3	402,036	Open	13.7	272
7/9/2025	23:30:00	7.3	2.464	3.8	402,072	Open	13.7	270
7/9/2025	23:45:00	7.3	1.927	7.8	402,085	Open	13.8	270
7/10/2025	0:00:00	7.3	2.494	5.1	402,121	Open	13.7	268
7/10/2025	0:15:00	7.3	2.513	6.9	402,135	Open	13.9	270
7/10/2025	0:30:00	7.3	1.927	5.5	402,168	Open	13.9	270
7/10/2025	0:45:00	7.3	2.483	4.2	402,205	Open	13.7	270
7/10/2025	1:00:00	7.3	0.000	3.3	402,241	Closed	13.7	270
7/10/2025	1:15:00	7.3	1.911	4.2	402,272	Open	14	270
7/10/2025	1:30:00	7.3	1.238	30	402,295	Open	13.7	270
7/10/2025	1:45:00	7.3	2.445	2.1	402,324	Open	13.5	114
7/10/2025	2:00:00	7.4	0.000	2.6	402,347	Closed	13.9	114
7/10/2025	2:15:00	7.3	1.828	8.5	402,379	Open	13.7	116
7/10/2025	2:30:00	7.3	2.430	1.5	402,411	Open	13.6	117

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	2:45:00	7.3	2.407	2.4	402,447	Open	13.6	117
7/10/2025	3:00:00	7.3	0.999	24.3	402,479	Closed	13.6	117
7/10/2025	3:15:00	7.3	0.000	4.7	402,494	Closed	13.8	117
7/10/2025	3:30:00	7.3	2.475	5.3	402,524	Open	13.6	118
7/10/2025	3:45:00	7.3	1.847	17.1	402,541	Open	14	257
7/10/2025	4:00:00	7.3	2.502	2.2	402,575	Open	13.7	259
7/10/2025	4:15:00	7.3	2.475	2.7	402,612	Open	13.7	258
7/10/2025	4:30:00	7.3	1.658	30.1	402,645	Closed	13.7	258
7/10/2025	4:45:00	7.3	2.472	3.6	402,678	Open	13.6	259
7/10/2025	5:00:00	7.3	2.491	3.4	402,715	Open	13.6	259
7/10/2025	5:15:00	7.3	1.124	54.5	402,748	Closed	13.5	258
7/10/2025	5:30:00	7.3	2.479	6.5	402,756	Open	13.8	259
7/10/2025	5:45:00	7.3	2.441	6.8	402,793	Open	13.5	260
7/10/2025	6:00:00	7.3	1.783	17.3	402,826	Open	13.6	260
7/10/2025	6:15:00	7.3	2.426	3	402,859	Open	13.7	259
7/10/2025	6:30:00	7.3	2.419	3.2	402,895	Open	13.8	259
7/10/2025	6:45:00	7.3	1.798	15.4	402,929	Open	13.8	258
7/10/2025	7:00:00	7.3	2.456	131.1	402,946	Open	15	117
7/10/2025	7:15:00	7.3	2.449	6.9	402,982	Open	13.7	117
7/10/2025	7:30:00	7.3	1.862	28.4	403,018	Open	13.6	117
7/10/2025	7:45:00	7.3	2.460	8.7	403,051	Open	13.5	117
7/10/2025	8:00:00	7.3	0.246	7.9	403,085	Open	13.5	117
7/10/2025	8:15:00	7.3	1.870	20.4	403,108	Open	13.5	117
7/10/2025	8:30:00	7.3	2.472	11.8	403,142	Open	13.4	117
7/10/2025	8:45:00	7.3	0.000	12.7	403,166	Closed	13.4	116

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	9:00:00	7.3	2.453	19.7	403,194	Open	13.3	116
7/10/2025	9:15:00	7.3	2.354	24.1	403,205	Closed	13.2	114
7/10/2025	9:30:00	7.4	2.449	12.9	403,208	Open	13.5	114
7/10/2025	9:45:00	7.3	2.430	10.6	403,244	Open	13.2	115
7/10/2025	10:00:00	7.3	2.392	12.9	403,281	Open	13.3	117
7/10/2025	10:15:00	7.3	2.453	4.5	403,294	Open	13.3	117
7/10/2025	10:30:00	7.3	2.419	2.9	403,331	Open	13.2	114
7/10/2025	10:45:00	7.3	2.388	4.8	403,367	Open	13.2	114
7/10/2025	11:00:00	7.3	0.242	10	403,380	Closed	13.9	114
7/10/2025	11:15:00	7.3	2.422	3.9	403,407	Open	13.1	114
7/10/2025	11:30:00	7.3	2.373	5.1	403,443	Open	13.1	114
7/10/2025	11:45:00	7.2	2.400	4.1	403,471	Open	13.1	114
7/10/2025	12:00:00	7.2	2.369	8.6	403,507	Open	13.2	114
7/10/2025	12:15:00	7.3	0.197	7	403,531	Closed	13.4	114
7/10/2025	12:30:00	7.2	2.369	9	403,556	Open	13.3	114
7/10/2025	12:45:00	7.3	2.358	9.8	403,591	Open	13.3	114
7/10/2025	13:00:00	7.3	0.220	3.3	403,608	Closed	14.1	114
7/10/2025	13:15:00	7.3	2.362	4.5	403,639	Open	13.5	114
7/10/2025	13:30:00	7.3	2.324	6.5	403,674	Open	13.6	114
7/10/2025	13:45:00	7.3	0.174	6.1	403,696	Closed	13.7	114
7/10/2025	14:00:00	7.3	2.407	2.6	403,721	Open	13.7	115
7/10/2025	14:15:00	7.3	2.403	2.8	403,757	Open	13.7	114
7/10/2025	14:30:00	7.3	1.919	5.2	403,786	Open	13.9	117
7/10/2025	14:45:00	7.3	0.121	3.4	403,818	Closed	14	117
7/10/2025	15:00:00	7.3	2.426	4.3	403,842	Open	13.9	117

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	15:15:00	7.4	2.369	7.7	403,870	Open	13.9	117
7/10/2025	15:30:00	7.4	0.170	2.4	403,893	Closed	14.3	117
7/10/2025	15:45:00	7.4	2.411	4.9	403,926	Open	14	117
7/10/2025	16:00:00	7.4	2.422	6.8	403,955	Open	14.1	117
7/10/2025	16:15:00	7.4	2.403	2.9	403,991	Open	14.1	117
7/10/2025	16:30:00	7.4	0.144	4.9	404,015	Closed	14.4	117
7/10/2025	16:45:00	7.4	2.449	9.1	404,040	Open	14.2	117
7/10/2025	17:00:00	7.3	2.430	3.5	404,076	Open	14.2	117
7/10/2025	17:15:00	7.3	2.403	3.6	404,112	Open	14.2	117
7/10/2025	17:30:00	7.3	2.415	3.8	404,141	Open	14.3	257
7/10/2025	17:45:00	7.3	2.407	3.9	404,177	Open	14.2	117
7/10/2025	18:00:00	7.3	2.388	4.2	404,213	Open	14.2	117
7/10/2025	18:15:00	7.4	0.132	3.9	404,229	Closed	14.9	256
7/10/2025	18:30:00	7.3	0.000	2.5	404,256	Closed	14.2	117
7/10/2025	18:45:00	7.3	2.343	4.9	404,274	Open	14.1	117
7/10/2025	19:00:00	7.3	0.000	11	404,300	Closed	14.1	117
7/10/2025	19:15:00	7.3	2.388	2.7	404,323	Open	13.9	117
7/10/2025	19:30:00	7.3	2.396	7.5	404,359	Open	13.8	117
7/10/2025	19:45:00	7.3	2.441	12.3	404,386	Open	13.7	116
7/10/2025	20:00:00	7.3	2.430	6.7	404,422	Open	13.7	117
7/10/2025	20:15:00	7.3	0.114	4.9	404,437	Closed	14.2	117
7/10/2025	20:30:00	7.3	2.449	32.2	404,459	Open	13.8	117
7/10/2025	20:45:00	7.3	2.445	8.6	404,483	Open	13.6	117
7/10/2025	21:00:00	7.3	2.445	8.8	404,519	Open	13.5	114
7/10/2025	21:15:00	7.3	2.479	12.3	404,544	Open	13.4	114

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/10/2025	21:30:00	7.3	2.456	4	404,581	Open	13.4	114
7/10/2025	21:45:00	7.3	2.422	4.4	404,618	Open	13.3	114
7/10/2025	22:00:00	7.3	0.390	9.6	404,647	Open	13.4	114
7/10/2025	22:15:00	7.3	2.445	4.6	404,675	Open	13.3	114
7/10/2025	22:30:00	7.3	0.170	5.3	404,706	Open	13.5	114
7/10/2025	22:45:00	7.3	2.445	19.5	404,718	Open	13.4	264
7/10/2025	23:00:00	7.3	0.269	209.6	404,737	Open	14.4	114
7/10/2025	23:15:00	7.3	2.472	9.2	404,773	Open	13.2	115
7/10/2025	23:30:00	7.3	2.343	25.2	404,802	Open	13.1	114
7/10/2025	23:45:00	7.3	2.388	6.4	404,825	Open	13.1	114
7/11/2025	0:00:00	7.3	2.388	8.5	404,861	Open	13.1	116
7/11/2025	0:15:00	7.3	2.426	13.2	404,892	Open	13.2	116
7/11/2025	0:30:00	7.3	2.403	8.9	404,928	Open	13.1	117
7/11/2025	0:45:00	7.3	0.439	11.2	404,964	Open	13.1	117
7/11/2025	1:00:00	7.3	2.400	26.4	404,972	Open	13.8	258
7/11/2025	1:15:00	7.3	0.257	76.9	404,988	Open	14.4	114
7/11/2025	1:30:00	7.3	2.400	14.3	405,022	Open	13	114
7/11/2025	1:45:00	7.3	2.415	15.7	405,053	Open	13	114
7/11/2025	2:00:00	7.3	2.400	8.6	405,089	Open	13	115
7/11/2025	2:15:00	7.3	2.407	13.5	405,125	Open	13	117
7/11/2025	2:30:00	7.3	2.479	15.8	405,153	Closed	13	117
7/11/2025	2:45:00	7.3	2.475	11.5	405,189	Open	13.2	117
7/11/2025	3:00:00	7.3	2.483	12.2	405,226	Open	13.2	117
7/11/2025	3:15:00	7.3	2.358	8.5	405,252	Open	13.2	117
7/11/2025	3:30:00	7.3	2.377	2.8	405,274	Open	13.4	117

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	3:45:00	7.3	2.366	3.2	405,310	Open	13.5	118
7/11/2025	4:00:00	7.3	2.502	7.8	405,320	Open	13.6	118
7/11/2025	4:15:00	7.3	2.445	4.4	405,351	Open	13.5	117
7/11/2025	4:30:00	7.3	2.434	6.3	405,388	Open	13.4	116
7/11/2025	4:45:00	7.3	2.468	10.6	405,416	Open	13.3	116
7/11/2025	5:00:00	7.3	2.479	8.3	405,452	Open	13.2	116
7/11/2025	5:15:00	7.3	0.000	18.9	405,481	Closed	13.4	117
7/11/2025	5:30:00	7.3	2.449	11.5	405,503	Open	13.2	117
7/11/2025	5:45:00	7.3	2.456	9.5	405,540	Open	13.1	117
7/11/2025	6:00:00	7.3	0.000	5.9	405,557	Closed	13.6	116
7/11/2025	6:15:00	7.3	0.000	9.3	405,577	Closed	13.3	116
7/11/2025	6:30:00	7.3	2.472	5.3	405,600	Open	13.1	116
7/11/2025	6:45:00	7.3	0.000	6.6	405,632	Closed	13.1	116
7/11/2025	7:00:00	7.3	2.460	10.1	405,651	Open	13	114
7/11/2025	7:15:00	7.3	2.415	9.4	405,688	Open	12.9	115
7/11/2025	7:30:00	7.3	2.396	2.6	405,724	Open	12.8	114
7/11/2025	7:45:00	7.2	2.453	5.5	405,743	Open	12.9	114
7/11/2025	8:00:00	7.2	2.434	2.5	405,780	Open	12.7	114
7/11/2025	8:15:00	7.2	0.000	6.1	405,814	Closed	12.7	114
7/11/2025	8:30:00	7.2	2.453	8.3	405,831	Open	12.8	114
7/11/2025	8:45:00	7.2	2.392	5.5	405,867	Open	12.7	114
7/11/2025	9:00:00	7.2	2.362	8.2	405,902	Open	12.8	114
7/11/2025	9:15:00	7.2	2.430	11.8	405,919	Open	12.9	114
7/11/2025	9:30:00	7.3	2.403	8.8	405,956	Open	12.9	114
7/11/2025	9:45:00	7.3	2.377	10.5	405,992	Open	13	114

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	10:00:00	7.3	2.456	11.5	406,007	Open	13.2	114
7/11/2025	10:15:00	7.3	2.173	18.5	406,036	Open	13.1	114
7/11/2025	10:30:00	7.3	0.000	12.6	406,066	Closed	13.3	114
7/11/2025	10:45:00	7.3	2.464	5.2	406,090	Open	13.3	114
7/11/2025	11:00:00	7.3	0.000	4.8	406,121	Closed	13.4	116
7/11/2025	11:15:00	7.3	2.479	1.2	406,144	Open	13.4	116
7/11/2025	11:30:00	7.3	2.468	1	406,181	Open	13.5	117
7/11/2025	11:45:00	7.4	0.000	2.9	406,208	Closed	13.8	117
7/11/2025	12:00:00	7.4	2.491	1.9	406,239	Open	13.6	117
7/11/2025	12:15:00	7.4	2.449	3.1	406,276	Open	13.6	258
7/11/2025	12:30:00	7.4	2.479	4.8	406,307	Open	13.8	257
7/11/2025	12:45:00	7.4	0.000	4.1	406,336	Closed	13.9	116
7/11/2025	13:00:00	7.3	2.483	4.5	406,366	Open	13.8	259
7/11/2025	13:15:00	7.3	2.502	8.2	406,396	Open	14	257
7/11/2025	13:30:00	7.3	2.491	2.6	406,421	Open	14.1	257
7/11/2025	13:45:00	7.3	2.456	5.9	406,458	Open	14.1	257
7/11/2025	14:00:00	7.3	2.483	5.7	406,490	Open	14.3	257
7/11/2025	14:15:00	7.3	2.453	4.2	406,527	Open	14.2	257
7/11/2025	14:30:00	7.3	2.407	5.2	406,563	Open	14.3	257
7/11/2025	14:45:00	7.3	1.431	13.8	406,592	Closed	14.4	259
7/11/2025	15:00:00	7.3	2.464	2.5	406,611	Open	14.4	259
7/11/2025	15:15:00	7.3	2.419	3.7	406,648	Open	14.4	259
7/11/2025	15:30:00	7.3	2.426	5.9	406,679	Open	14.5	259
7/11/2025	15:45:00	7.4	0.000	3.1	406,703	Closed	14.7	257
7/11/2025	16:00:00	7.3	2.411	2.9	406,735	Open	14.3	261

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	16:15:00	7.4	2.407	37.6	406,753	Open	14.5	261
7/11/2025	16:30:00	7.4	0.000	3.9	406,782	Closed	14.5	259
7/11/2025	16:45:00	7.3	2.400	2	406,801	Open	14.3	261
7/11/2025	17:00:00	7.4	0.746	2.8	406,808	Closed	15.2	259
7/11/2025	17:15:00	7.4	2.396	4.2	406,843	Open	14.4	261
7/11/2025	17:30:00	7.3	2.377	3.4	406,879	Open	14.5	262
7/11/2025	17:45:00	7.3	2.430	15.9	406,897	Open	14.9	263
7/11/2025	18:00:00	7.3	2.385	3.2	406,933	Open	14.6	263
7/11/2025	18:15:00	7.3	2.385	3.7	406,951	Open	14.6	263
7/11/2025	18:30:00	7.3	2.441	7.9	406,980	Open	14.6	263
7/11/2025	18:45:00	7.4	2.403	2.9	407,017	Open	14.6	263
7/11/2025	19:00:00	7.4	2.385	2	407,053	Open	14.6	265
7/11/2025	19:15:00	7.4	2.422	11.9	407,083	Open	14.7	267
7/11/2025	19:30:00	7.4	2.403	5.9	407,120	Open	14.4	267
7/11/2025	19:45:00	7.4	2.309	1.5	407,138	Closed	14.8	267
7/11/2025	20:00:00	7.3	0.000	5.8	407,161	Closed	14.5	265
7/11/2025	20:15:00	7.3	2.419	3	407,189	Open	14.1	267
7/11/2025	20:30:00	7.3	2.411	1.8	407,210	Open	14.1	264
7/11/2025	20:45:00	7.4	2.403	9.2	407,240	Open	14.1	263
7/11/2025	21:00:00	7.4	2.400	6.5	407,246	Closed	14.3	269
7/11/2025	21:15:00	7.3	2.369	5.3	407,266	Closed	13.7	272
7/11/2025	21:30:00	7.4	2.536	12.9	407,273	Open	13.7	270
7/11/2025	21:45:00	7.3	2.491	2.5	407,310	Open	13.9	271
7/11/2025	22:00:00	7.3	2.445	2.9	407,347	Open	13.9	271
7/11/2025	22:15:00	7.6	2.366	26.1	407,360	Closed	16.2	258

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/11/2025	22:30:00	7.4	2.464	3.3	407,397	Open	14.2	266
7/11/2025	22:45:00	7.4	2.430	2.2	407,434	Open	14.2	269
7/11/2025	23:00:00	7.4	2.502	15.9	407,446	Open	14.4	264
7/11/2025	23:15:00	7.3	2.396	3.1	407,468	Closed	14.2	268
7/11/2025	23:30:00	7.4	2.426	4.6	407,483	Open	14.3	266
7/11/2025	23:45:00	7.4	0.231	29.6	407,501	Closed	15.9	118
7/12/2025	0:00:00	7.4	2.434	4.7	407,530	Open	14.3	269
7/12/2025	0:15:00	7.4	0.204	1.5	407,556	Closed	14.8	116
7/12/2025	0:30:00	7.3	2.445	10.6	407,578	Open	14	273
7/12/2025	0:45:00	7.4	2.388	3.7	407,598	Closed	15	116
7/12/2025	1:00:00	7.3	2.426	4.5	407,634	Open	14	272
7/12/2025	1:15:00	7.4	2.358	27	407,650	Closed	14.9	272
7/12/2025	1:30:00	7.3	2.426	5.1	407,686	Open	14	272
7/12/2025	1:45:00	7.3	2.403	4.8	407,723	Open	14	272
7/12/2025	2:00:00	7.3	2.536	11.5	407,740	Open	13.9	272
7/12/2025	2:15:00	7.3	2.521	5.1	407,759	Open	14	270
7/12/2025	2:30:00	7.3	2.487	6.6	407,797	Open	14	273
7/12/2025	2:45:00	7.4	0.163	5.4	407,820	Closed	15.2	116
7/12/2025	3:00:00	7.3	2.483	4.1	407,854	Open	14	273
7/12/2025	3:15:00	7.3	2.449	4.4	407,891	Open	14	275
7/12/2025	3:30:00	7.3	0.000	3.8	407,920	Closed	15.3	117
7/12/2025	3:45:00	7.3	2.479	1.4	407,942	Open	13.9	270
7/12/2025	4:00:00	7.3	2.483	3	407,950	Open	14.5	268
7/12/2025	4:15:00	7.3	0.129	2.2	407,967	Closed	15.1	117
7/12/2025	4:30:00	7.3	0.000	2.5	407,999	Closed	13.8	117

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	4:45:00	7.3	1.109	9.3	408,012	Open	13.5	268
7/12/2025	5:00:00	7.3	2.456	4.4	408,041	Open	13.4	264
7/12/2025	5:15:00	7.2	2.422	1.7	408,077	Open	13.3	264
7/12/2025	5:30:00	7.3	1.355	16.4	408,106	Open	13.3	268
7/12/2025	5:45:00	7.3	2.426	3.1	408,141	Open	13.4	271
7/12/2025	6:00:00	7.3	2.419	4	408,177	Open	13.5	272
7/12/2025	6:15:00	7.3	1.840	5.2	408,206	Open	13.6	273
7/12/2025	6:30:00	7.3	2.415	2.4	408,241	Open	13.5	268
7/12/2025	6:45:00	7.3	0.000	12.5	408,277	Closed	13.5	268
7/12/2025	7:00:00	7.3	1.824	8.8	408,286	Open	13.6	265
7/12/2025	7:15:00	7.3	2.445	4.7	408,319	Open	13.4	267
7/12/2025	7:30:00	7.3	0.000	7.7	408,340	Closed	13.7	266
7/12/2025	7:45:00	7.3	1.783	16.9	408,361	Open	13.4	266
7/12/2025	8:00:00	7.3	2.373	7.9	408,396	Open	13.2	266
7/12/2025	8:15:00	7.3	2.362	9.8	408,431	Open	13.2	266
7/12/2025	8:30:00	7.3	1.506	19.4	408,456	Open	13.3	266
7/12/2025	8:45:00	7.3	2.396	7.3	408,491	Open	13.4	268
7/12/2025	9:00:00	7.3	2.373	7.6	408,527	Open	13.5	268
7/12/2025	9:15:00	7.3	1.677	10.6	408,550	Open	13.8	270
7/12/2025	9:30:00	7.3	2.373	5	408,585	Open	14	273
7/12/2025	9:45:00	7.3	2.335	3.2	408,620	Open	14.1	278
7/12/2025	10:00:00	7.4	0.000	6.7	408,642	Closed	14.4	281
7/12/2025	10:15:00	7.4	2.381	2.2	408,671	Open	14.2	283
7/12/2025	10:30:00	7.4	0.000	1.6	408,675	Closed	15	283
7/12/2025	10:45:00	7.4	1.628	4.2	408,701	Open	14.3	285

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	11:00:00	7.4	2.381	2.1	408,736	Open	14.1	283
7/12/2025	11:15:00	7.3	2.381	2.3	408,760	Open	14.2	282
7/12/2025	11:30:00	7.3	1.843	10.1	408,789	Open	14.2	282
7/12/2025	11:45:00	7.3	2.396	1.5	408,825	Open	14.2	278
7/12/2025	12:00:00	7.3	2.388	1.4	408,860	Open	14.3	277
7/12/2025	12:15:00	7.3	1.711	1.5	408,888	Open	14.4	279
7/12/2025	12:30:00	7.3	2.509	0.5	408,925	Open	14.5	279
7/12/2025	12:45:00	7.3	2.460	1.1	408,962	Open	14.5	276
7/12/2025	13:00:00	7.3	1.881	7.5	408,993	Open	14.8	276
7/12/2025	13:15:00	7.3	2.438	0.9	409,030	Open	14.6	272
7/12/2025	13:30:00	7.3	0.000	0	409,055	Closed	15	272
7/12/2025	13:45:00	7.3	1.911	8.3	409,082	Open	14.9	272
7/12/2025	14:00:00	7.3	2.464	5.4	409,118	Open	14.6	272
7/12/2025	14:15:00	7.3	2.460	2	409,142	Open	14.6	271
7/12/2025	14:30:00	7.3	0.000	5.7	409,171	Closed	14.8	272
7/12/2025	14:45:00	7.2	2.483	3.6	409,199	Open	14.5	272
7/12/2025	15:00:00	7.2	2.460	9.5	409,236	Open	14.4	272
7/12/2025	15:15:00	7.2	1.866	13.7	409,254	Open	14.6	272
7/12/2025	15:30:00	7.2	2.108	22.6	409,277	Closed	14.2	268
7/12/2025	15:45:00	7.2	2.396	14.6	409,310	Open	14.1	267
7/12/2025	16:00:00	7.3	2.419	14.4	409,327	Open	15.6	263
7/12/2025	16:15:00	7.3	0.000	6.6	409,350	Closed	14.8	117
7/12/2025	16:30:00	7.3	2.358	3.7	409,379	Open	14.2	263
7/12/2025	16:45:00	7.3	2.328	3.5	409,414	Open	14.2	266
7/12/2025	17:00:00	7.4	2.381	9.6	409,431	Open	14.6	264

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	17:15:00	7.4	2.369	4.3	409,467	Open	14.2	261
7/12/2025	17:30:00	7.4	2.332	9.4	409,502	Open	14.2	264
7/12/2025	17:45:00	7.4	2.237	27.5	409,513	Closed	14.4	264
7/12/2025	18:00:00	7.4	2.354	9.1	409,548	Open	14.1	266
7/12/2025	18:15:00	7.4	2.350	8.9	409,583	Open	14	264
7/12/2025	18:30:00	7.4	0.000	11.2	409,599	Closed	14.4	261
7/12/2025	18:45:00	7.3	2.385	6.3	409,630	Open	13.9	261
7/12/2025	19:00:00	7.3	2.305	7.2	409,665	Open	13.9	261
7/12/2025	19:15:00	7.3	0.000	7.9	409,687	Closed	13.9	260
7/12/2025	19:30:00	7.3	2.403	7.3	409,713	Open	13.8	261
7/12/2025	19:45:00	7.3	2.415	7.3	409,730	Open	13.9	262
7/12/2025	20:00:00	7.3	2.354	22.3	409,743	Closed	14.2	262
7/12/2025	20:15:00	7.3	2.430	13.9	409,778	Open	13.7	260
7/12/2025	20:30:00	7.4	0.000	6.9	409,803	Closed	13.9	260
7/12/2025	20:45:00	7.3	2.290	13.6	409,821	Open	13.6	262
7/12/2025	21:00:00	7.3	2.350	0.5	409,846	Open	13.7	116
7/12/2025	21:15:00	7.3	2.445	5.1	409,877	Open	14.4	263
7/12/2025	21:30:00	7.3	2.411	3.7	409,914	Open	13.5	263
7/12/2025	21:45:00	7.3	2.434	5.1	409,950	Open	13.4	263
7/12/2025	22:00:00	7.3	2.453	14.6	409,973	Open	14	261
7/12/2025	22:15:00	7.3	0.189	0	410,002	Open	13.7	114
7/12/2025	22:30:00	7.3	2.430	4.3	410,024	Open	13.3	258
7/12/2025	22:45:00	7.3	2.456	10.5	410,035	Open	13.3	261
7/12/2025	23:00:00	7.3	2.419	4.1	410,072	Open	13.2	261
7/12/2025	23:15:00	7.3	0.000	6.5	410,100	Closed	13.4	261

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/12/2025	23:30:00	7.3	2.453	7.6	410,126	Open	14	258
7/12/2025	23:45:00	7.3	2.434	4.4	410,163	Open	13.3	258
7/13/2025	0:00:00	7.3	2.415	6.2	410,199	Open	13.4	263
7/13/2025	0:15:00	7.3	2.449	12.1	410,232	Open	14.1	267
7/13/2025	0:30:00	7.3	2.445	6.9	410,268	Open	13.5	263
7/13/2025	0:45:00	7.3	2.475	7.2	410,291	Open	13.6	266
7/13/2025	1:00:00	7.4	2.226	6.5	410,319	Open	13.7	266
7/13/2025	1:15:00	7.3	2.377	2.3	410,355	Open	13.3	267
7/13/2025	1:30:00	7.3	2.358	3.4	410,390	Open	13.2	268
7/13/2025	1:45:00	7.3	2.373	3.6	410,419	Open	13.3	268
7/13/2025	2:00:00	7.4	2.354	3.6	410,455	Open	13.2	265
7/13/2025	2:15:00	7.4	2.358	3.9	410,470	Open	13.5	266
7/13/2025	2:30:00	7.4	0.000	5.4	410,495	Closed	13.5	263
7/13/2025	2:45:00	7.4	2.335	4.5	410,523	Open	13.2	264
7/13/2025	3:00:00	7.4	2.316	3.7	410,558	Open	13.2	264
7/13/2025	3:15:00	7.4	2.332	5.2	410,587	Open	13.2	265
7/13/2025	3:30:00	7.4	2.309	2.8	410,622	Open	13.1	264
7/13/2025	3:45:00	7.4	2.275	4	410,656	Open	13.1	264
7/13/2025	4:00:00	7.4	2.309	6.6	410,685	Open	13.3	264
7/13/2025	4:15:00	7.4	2.347	2	410,705	Open	13.5	266
7/13/2025	4:30:00	7.4	0.000	2.1	410,726	Closed	13.5	267
7/13/2025	4:45:00	7.4	2.350	2.8	410,755	Open	13.3	267
7/13/2025	5:00:00	7.3	2.332	1.6	410,790	Open	13.1	264
7/13/2025	5:15:00	7.3	2.581	1.9	410,829	Open	13.1	264
7/13/2025	5:30:00	7.3	2.286	10.2	410,844	Closed	13	263

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	5:45:00	7.3	2.536	5.1	410,847	Open	13.9	258
7/13/2025	6:00:00	7.3	2.483	4.6	410,884	Open	13.1	259
7/13/2025	6:15:00	7.4	0.276	5.7	410,908	Open	13.7	114
7/13/2025	6:30:00	7.3	2.502	3.5	410,944	Open	13	259
7/13/2025	6:45:00	7.3	2.460	3.9	410,981	Open	12.9	259
7/13/2025	7:00:00	7.3	2.528	14.4	411,003	Open	13.9	258
7/13/2025	7:15:00	7.3	2.509	7.1	411,040	Open	12.9	115
7/13/2025	7:30:00	7.3	2.460	1.9	411,077	Open	12.8	114
7/13/2025	7:45:00	7.3	2.502	7.8	411,101	Open	13.1	114
7/13/2025	8:00:00	7.3	2.468	1.5	411,139	Open	12.8	114
7/13/2025	8:15:00	7.3	2.438	5.2	411,175	Open	12.8	114
7/13/2025	8:30:00	7.3	2.491	9.8	411,196	Open	13.2	114
7/13/2025	8:45:00	7.3	1.730	10.2	411,231	Open	13	114
7/13/2025	9:00:00	7.3	0.530	5.1	411,264	Open	12.8	114
7/13/2025	9:15:00	7.3	2.456	6.1	411,287	Open	12.9	115
7/13/2025	9:30:00	7.3	1.847	18.3	411,322	Open	13	114
7/13/2025	9:45:00	7.3	2.441	4.4	411,347	Open	13	114
7/13/2025	10:00:00	7.3	2.419	5.8	411,383	Open	13.2	114
7/13/2025	10:15:00	7.3	1.893	17.3	411,403	Open	13.7	114
7/13/2025	10:30:00	7.3	2.445	8.3	411,437	Open	13.3	114
7/13/2025	10:45:00	7.3	0.174	95	411,469	Open	13.5	114
7/13/2025	11:00:00	7.3	1.889	21.3	411,493	Open	13.5	114
7/13/2025	11:15:00	7.4	0.223	7.6	411,520	Open	13.8	116
7/13/2025	11:30:00	7.3	2.438	4.6	411,552	Open	13.4	117
7/13/2025	11:45:00	7.3	1.809	7.9	411,571	Open	13.6	116

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	12:00:00	7.3	2.438	3.2	411,605	Open	13.6	258
7/13/2025	12:15:00	7.3	2.415	3.4	411,641	Open	13.7	258
7/13/2025	12:30:00	7.4	1.840	18	411,662	Open	14.8	116
7/13/2025	12:45:00	7.3	2.449	4.1	411,696	Open	13.9	260
7/13/2025	13:00:00	7.4	0.000	3.9	411,723	Closed	14.4	117
7/13/2025	13:15:00	7.3	1.692	23	411,751	Closed	14.1	265
7/13/2025	13:30:00	7.3	2.445	0.6	411,785	Open	14.1	265
7/13/2025	13:45:00	7.3	0.000	5.6	411,810	Closed	14.4	265
7/13/2025	14:00:00	7.3	1.866	17.4	411,843	Open	14.3	265
7/13/2025	14:15:00	7.3	2.453	3.2	411,860	Open	14.3	265
7/13/2025	14:30:00	7.3	2.468	3.1	411,881	Open	14.4	266
7/13/2025	14:45:00	7.3	1.847	8.7	411,916	Open	14.6	266
7/13/2025	15:00:00	7.3	2.487	1.5	411,937	Open	14.5	266
7/13/2025	15:15:00	7.3	2.426	2.7	411,974	Open	14.4	266
7/13/2025	15:30:00	7.3	0.182	28.3	412,006	Closed	14.5	266
7/13/2025	15:45:00	7.3	2.422	2.1	412,030	Open	14.4	264
7/13/2025	16:00:00	7.3	2.222	3.9	412,060	Closed	14.4	261
7/13/2025	16:15:00	7.3	0.000	10.9	412,092	Closed	14.7	262
7/13/2025	16:30:00	7.3	2.426	1	412,114	Open	14.6	264
7/13/2025	16:45:00	7.3	2.207	1.5	412,146	Closed	14.7	264
7/13/2025	17:00:00	7.3	1.749	20.9	412,163	Open	15	267
7/13/2025	17:15:00	7.3	2.419	0.9	412,196	Open	14.8	267
7/13/2025	17:30:00	7.3	2.381	1.9	412,224	Open	14.7	267
7/13/2025	17:45:00	7.3	1.805	10.1	412,244	Open	15.1	269
7/13/2025	18:00:00	7.3	2.426	2.1	412,278	Open	14.7	266

FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
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Data Date Range	**July 07, 2025 to July 13, 2025**	**Prepared by:** **Approved by:** **Date:**	**SD** **BC2** **July 14, 2025**

Date	Time	Discharge pH	Flow Rate (m3)	Discharge NTU	Flow Total (m3)	Discharge Valve Status	Discharge Temperature (°C)	Discharge Conductivity (uS/cm)
7/13/2025	18:15:00	7.3	0.000	2.1	412,310	Closed	14.7	266
7/13/2025	18:30:00	7.3	0.000	16.6	412,328	Closed	14.7	266
7/13/2025	18:45:00	7.3	2.434	3.1	412,348	Open	14.5	264
7/13/2025	19:00:00	7.3	2.415	4.6	412,370	Open	14.6	264
7/13/2025	19:15:00	7.3	1.824	9.9	412,404	Open	14.5	262
7/13/2025	19:30:00	7.3	2.419	7.7	412,437	Open	14.3	262
7/13/2025	19:45:00	7.3	2.381	7.9	412,473	Open	14.3	264
7/13/2025	20:00:00	7.3	1.734	23	412,475	Closed	14.4	264
7/13/2025	20:15:00	7.3	2.441	7.2	412,492	Open	14.3	262
7/13/2025	20:30:00	7.3	0.000	5.4	412,526	Closed	14.3	117
7/13/2025	20:45:00	7.3	1.586	29.5	412,528	Closed	15	261
7/13/2025	21:00:00	7.3	2.453	6.8	412,540	Open	15.1	264
7/13/2025	21:15:00	7.3	0.000	1.7	412,564	Closed	14.8	267
7/13/2025	21:30:00	7.3	1.802	12.8	412,594	Open	14.6	267
7/13/2025	21:45:00	7.3	2.445	3.7	412,618	Open	14.4	267
7/13/2025	22:00:00	7.3	2.385	3.8	412,655	Open	14.4	267
7/13/2025	22:15:00	7.3	2.210	21.9	412,688	Closed	14.5	268
7/13/2025	22:30:00	7.3	2.392	3	412,718	Open	14.3	268
7/13/2025	22:45:00	7.3	2.385	2.6	412,754	Open	14.4	272
7/13/2025	23:00:00	7.3	2.014	19.1	412,787	Closed	14.5	270
7/13/2025	23:15:00	7.3	2.403	3.3	412,806	Open	14.5	272
7/13/2025	23:30:00	7.3	2.373	2.4	412,842	Open	14.4	270
7/13/2025	23:45:00	7.2	2.025	10.5	412,875	Open	14.3	270

Appendix B: Photos

Photo 1: No visible sheen observed in the WTP water, June 07

Photo 2: No visible sheen observed in the WTP water, July 10

Photo 3: No visible sheen observed in the WTP water, July 11

Photo 4: No visible sheen observed in the WTP water, July 12

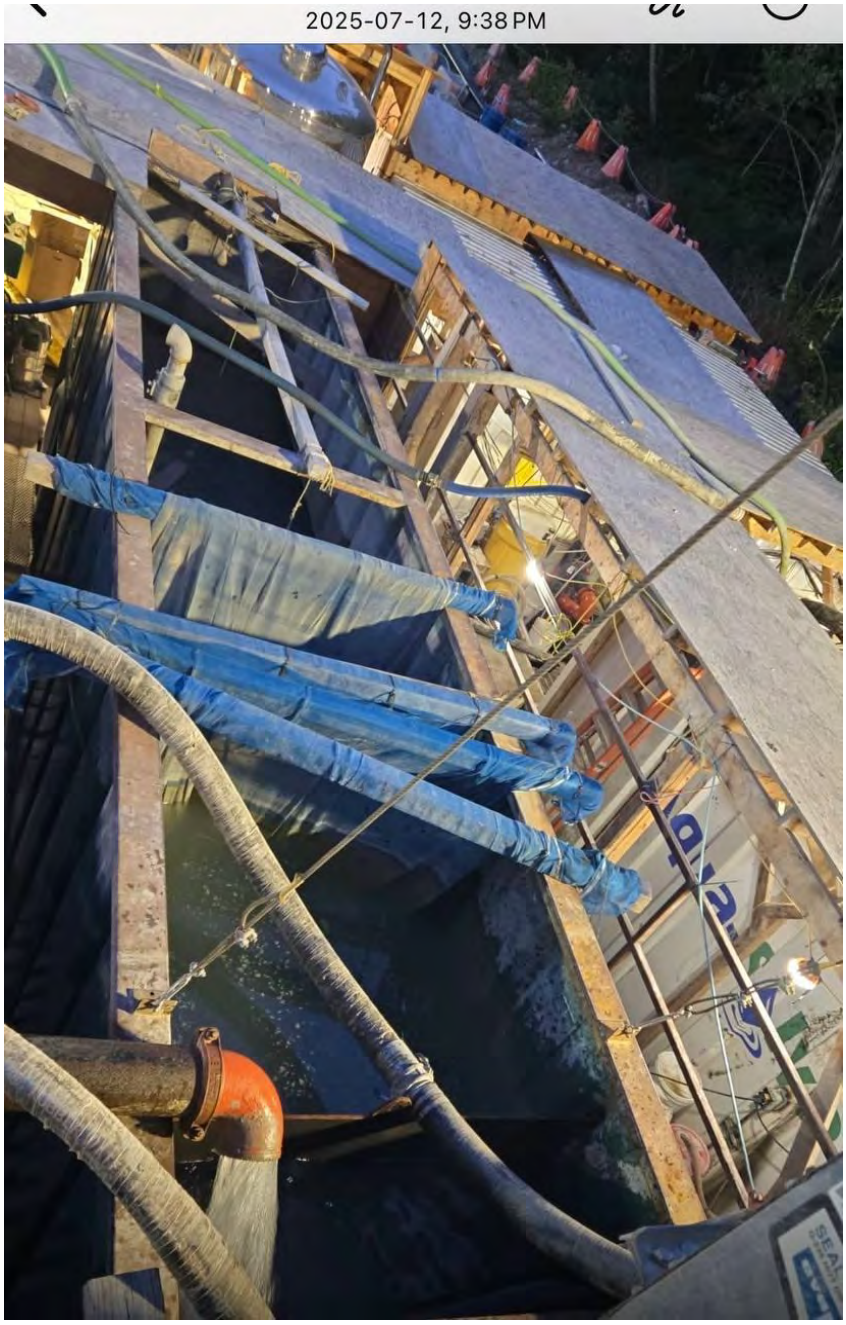
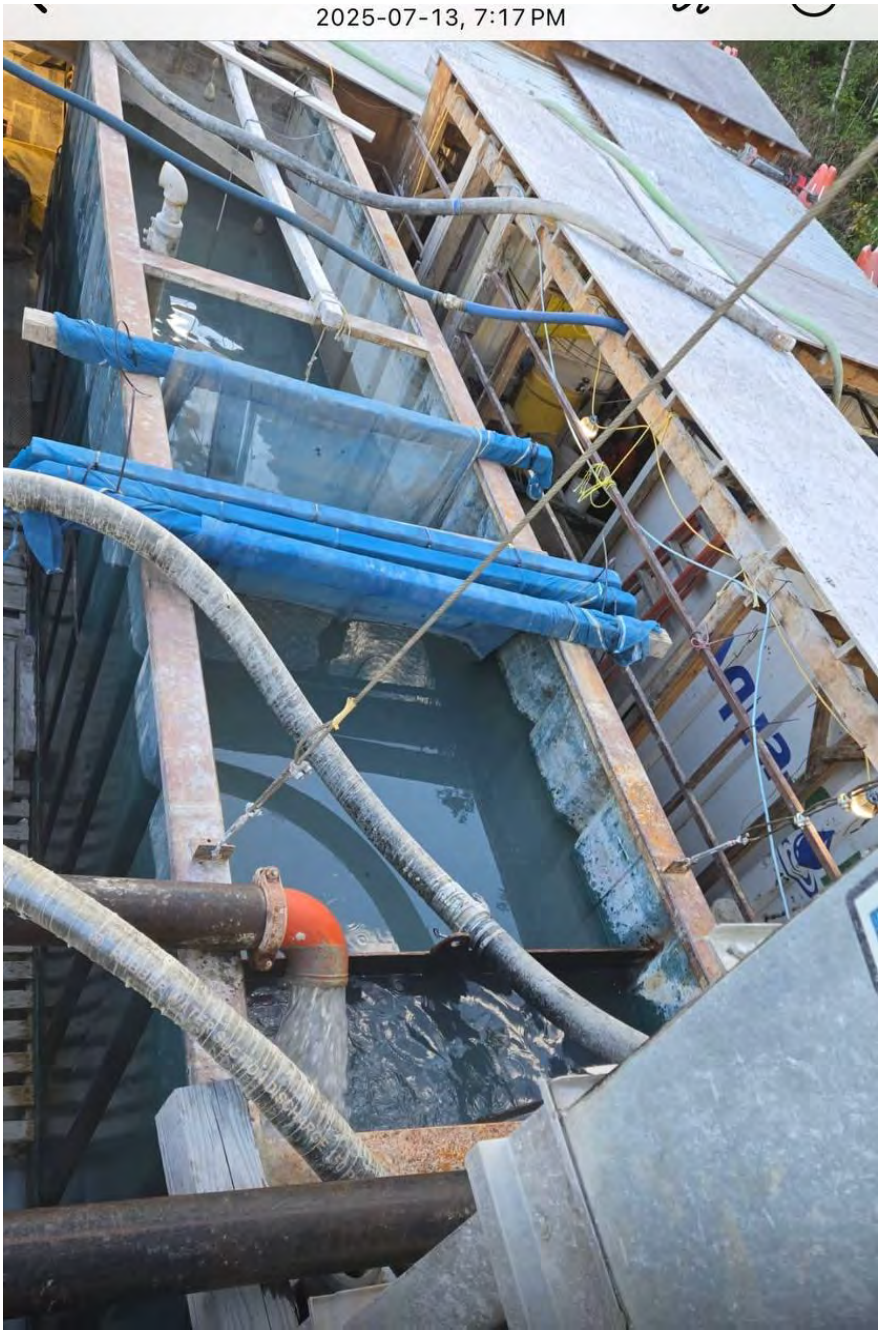


Photo 4: No visible sheen observed in the WTP water, July 13



FRONTIER-KEMPER MICHELS® joint venture		Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope	
Title	**WoodFibre Weekly Water Discharge Report**	**Revision:**	**0**
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Appendix D: Woodfibre Site Receiving Environment Documentation

Woodfibre Site Receiving Environment Sample Analysis

Analyte	*Unit*	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	**WLNG US 2025-07-08 09:40:00 [3]**	**WLNG DS 2025-07-08 09:17:00 [3]**
In situ Parameters									
Field pH	**pH Units**	6.5 - 9			7 - 8.7			7.3	7.5
Field Temperature	**°C**	18	19					14.5	12.1
General Parameters									
pH	**pH Units**							6.41	7.64
Alkalinity (Total as $CaCO_3$)	**mg/L**							7	49
Alkalinity (PP as $CaCO_3$)	**mg/L**							<1	<1
Hardness ($CaCO_3$)-Total	**mg/L**							8.29	48.3
Hardness ($CaCO_3$)-Dissolved	**mg/L**							8.06	48.6
Sulphide-Total	**mg/L**							<0.0018	<0.0018
Sulphide (as H2S)	**mg/L**			0.002				<0.002	<0.002
Un-ionized Hydrogen Sulfide as H2S-Total	**mg/L**							<0.0019	<0.0019
Un-ionized Hydrogen Sulfide as S-Total	**mg/L**							<0.0018	<0.0018
Anions and Nutrients									
Ammonia (N)-Total	**mg/L**	1.78	12.4		12	52		<0.015	0.018
Bicarbonate (HCO_3)	**mg/L**							8.5	60
Carbonate (CO_3)	**mg/L**							<1	<1
Hydroxide (OH)	**mg/L**							<1	<1
Nitrate (N)	**mg/L**	3	32.8		3.7			<0.02	<0.02
Nitrite (N)	**mg/L**	0.02	0.06					<0.005	<0.005
Nitrate plus Nitrite (N)	**mg/L**							<0.02	<0.02
Nitrogen (N)-Total	**mg/L**							0.095	0.095
Phosphorus (P)-Total (4500-P)	**mg/L**							0.006	0.0025
Bromide (Br)	**mg/L**							<0.01	<0.01
Chloride (Cl)	**mg/L**	150	600					<1	10
Fluoride (F)	**mg/L**		0.4			1.5		0.13	0.14
Sulphate (SO_4)-Dissolved	**mg/L**	128						2.4	7.2
Total Metals									
Aluminum (Al)-Total	**mg/L**	0.069897						0.0552	**0.122**
Antimony (Sb)-Total	**mg/L**	0.074	0.25					0.000046	0.000149
Arsenic (As)-Total	**mg/L**	0.005			0.0125			0.000063	0.00126
Barium (Ba)-Total	**mg/L**			1				0.00541	0.00769
Beryllium (Be)-Total	**mg/L**			0.00013			0.1	<0.00001	<0.00001
Bismuth (Bi)-Total	**mg/L**							<0.00001	<0.00001
Boron (B)-Total	**mg/L**	1.2			1.2			<0.01	0.013
Cadmium (Cd)-Total	**mg/L**						0.00012	<0.000005	0.000018
Calcium (Ca)-Total	**mg/L**							2.8	17.9
Cesium (Cs)-Total	**mg/L**							<0.00005	<0.00005
Chromium (Cr)-Total	**mg/L**							<0.0001	<0.0001
Chromium (Cr III)-Total	**mg/L**			0.0089			0.056	<0.00099	<0.00099
Chromium (Cr VI)-Total	**mg/L**			0.0025			0.0015	<0.00099	<0.00099
Cobalt (Co)-Total	**mg/L**	0.000389	0.11					0.000036	0.000148

Analyte	*Unit*	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1,2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1,2]	**WLNG US 2025-07-08 09:40:00 [3]**	**WLNG DS 2025-07-08 09:17:00 [3]**
Total Metals (Cont'd.)									
Copper (Cu)-Total	**mg/L**				0.002	0.003		0.00064	0.00023
Iron (Fe)-Total	**mg/L**		1					0.0563	0.0564
Lead (Pb)-Total	**mg/L**				0.002	0.14		0.00003	<0.00002
Lithium (Li)-Total	**mg/L**							<0.0005	0.00231
Magnesium (Mg)-Total	**mg/L**							0.31	0.89
Manganese (Mn)-Total	**mg/L**	0.641	0.631				0.1	0.00193	0.0657
Mercury (Hg)-Total	**mg/L**	0.00002			0.00002			<0.0000019	<0.0000019
Molybdenum (Mo)-Total	**mg/L**	7.6	46					0.000451	0.0166
Nickel (Ni)-Total	**mg/L**						0.0083	0.00025	0.00027
Phosphorus (P)-Total (ICPMS)	**mg/L**							0.0118	<0.005
Potassium (K)-Total	**mg/L**							<0.25	1.31
Rubidium (Rb)-Total	**mg/L**							0.000413	0.00243
Selenium (Se)-Total	**mg/L**	0.002			0.002			<0.00004	<0.00004
Silicon (Si)-Total	**mg/L**							4.73	6.19
Silver (Ag)-Total	**mg/L**	0.00012			0.0005	0.0037	0.0005	0.000011	0.000012
Sodium (Na)-Total	**mg/L**							1.86	5.1
Strontium (Sr)-Total	**mg/L**							0.0153	0.0409
Sulphur (S)-Total	**mg/L**							<3	<3
Tellurium (Te)-Total	**mg/L**							<0.00002	<0.00002
Thallium (Tl)-Total	**mg/L**			0.00003				<0.000002	0.000014
Thorium (Th)-Total	**mg/L**							<0.00005	<0.00005
Tin (Sn)-Total	**mg/L**							<0.0002	<0.0002
Titanium (Ti)-Total	**mg/L**							<0.002	<0.002
Uranium (U)-Total	**mg/L**		0.0165	0.0075				0.000055	0.000274
Vanadium (V)-Total	**mg/L**			0.06			0.005	<0.0002	<0.0002
Zinc (Zn)-Total	**mg/L**				0.01	0.055		0.0015	0.002
Zirconium (Zr)-Total	**mg/L**							<0.0001	<0.0001
Dissolved Metals									
Aluminum (Al)-Dissolved	**mg/L**							0.0307	0.033
Antimony (Sb)-Dissolved	**mg/L**							0.000027	0.000146
Arsenic (As)-Dissolved	**mg/L**							0.000098	0.00123
Barium (Ba)-Dissolved	**mg/L**							0.00517	0.00766
Beryllium (Be)-Dissolved	**mg/L**							<0.00001	<0.00001
Bismuth (Bi)-Dissolved	**mg/L**							<0.000005	<0.000005
Boron (B)-Dissolved	**mg/L**							<0.01	0.016
Cadmium (Cd)-Dissolved	**mg/L**	0.000034	0.000045					0.0000109	0.0000181
Calcium (Ca)-Dissolved	**mg/L**							2.76	18.1
Cesium (Cs)-Dissolved	**mg/L**							<0.00005	<0.00005
Chromium (Cr)-Dissolved	**mg/L**							<0.0001	<0.0001
Cobalt (Co)-Dissolved	**mg/L**							0.0000235	0.000131
Copper (Cu)-Dissolved	**mg/L**	0.0002	0.0002					**0.000518**	0.000059

Analyte	*Unit*	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Freshwater Aquatic Life - Short Term Max [1] [2]	BC Working Water Quality Guideline - Freshwater Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Long Term Average [1] [2]	BC Approved Water Quality Guideline - Marine Aquatic Life - Short Term Max [1] [2]	BC Working Water Quality Guideline - Marine Aquatic Life - Long Term Average [1] [2]	**WLNG US 2025-07-08 09:40:00 [3]**	**WLNG DS 2025-07-08 09:17:00 [3]**
Dissolved Metals (Cont'd.)									
Iron (Fe)-Dissolved	**mg/L**		0.35					0.0309	0.0012
Lead (Pb)-Dissolved	**mg/L**	0.001497						0.0000151	<0.000005
Lithium (Li)-Dissolved	**mg/L**							<0.0005	0.00228
Manganese (Mn)-Dissolved	**mg/L**							0.00111	0.0559
Magnesium (Mg)-Dissolved	**mg/L**							0.285	0.837
Mercury (Hg)-Dissolved	**mg/L**							<0.0000019	<0.0000019
Molybdenum (Mo)-Dissolved	**mg/L**							0.000458	0.0177
Nickel (Ni)-Dissolved	**mg/L**	0.0006	0.0096					0.000292	0.000253
Phosphorus (P)-Dissolved	**mg/L**							0.0084	<0.002
Potassium (K)-Dissolved	**mg/L**							0.191	1.27
Rubidium (Rb)-Dissolved	**mg/L**							0.000473	0.00295
Selenium (Se)-Dissolved	**mg/L**							<0.00004	0.000042
Silicon (Si)-Dissolved	**mg/L**							4.36	5.84
Silver (Ag)-Dissolved	**mg/L**							<0.000005	<0.000005
Sodium (Na)-Dissolved	**mg/L**							1.7	4.97
Strontium (Sr)-Dissolved	**mg/L**			1.25				0.0149	0.0409
Sulphur (S)-Dissolved	**mg/L**							<3	<3
Tellurium (Te)-Dissolved	**mg/L**							<0.00002	<0.00002
Thallium (Tl)-Dissolved	**mg/L**							0.0000027	0.0000177
Thorium (Th)-Dissolved	**mg/L**							0.0000059	<0.000005
Tin (Sn)-Dissolved	**mg/L**							<0.0002	<0.0002
Titanium (Ti)-Dissolved	**mg/L**							<0.0005	<0.0005
Uranium (U)-Dissolved	**mg/L**							0.0000533	0.000211
Vanadium (V)-Dissolved	**mg/L**							<0.0002	<0.0002
Zinc (Zn)-Dissolved	**mg/L**	0.003094	0.008302					0.00078	0.00098
Zirconium (Zr)-Dissolved	**mg/L**							<0.0001	<0.0001
Inorganics									
Organic Carbon (C)-Total	**mg/L**							1.5	1.2
Organic Carbon (C)-Dissolved	**mg/L**							1.5	0.99
Solids-Total Dissolved	**mg/L**							28	76
Solids-Total Suspended	**mg/L**	6.2	26.2					1.2	<1

[1] Guideline calculated using the in-situ measurements (pH (field),Temperature (field), Turbidity (field), Hardness (as CaCO3) – total, Dissolved Organic Carbon (DOC), Total Alkalinity (CaCO3), and Chloride).
[2] Guideline values presented represent the lower of the co-factor dependent guidelines for the upstream and downstream stations when they differ, but exceedance bolding is dependent on guidelines calculated using in situ co-factor considerations.
[3] **Bold text** denotes value exceeding guidelines, except in cases where they are below a station-specific guideline that isn't displayed as per [1] and [2] above. Note: Not all exceedances are project related.

Woodfibre Site Receiving Environment Field Notes and Logs

Water Quality Field Data Sheet

Project: FORTIS11234

Hatfield

Location Information

Site ID: WLNG DS / EAS DS

Site Name: WLNG

Site UTM: Zone: E: 123° 14' 53.421"

(NAD83) N: 49° 40' 8.736"

Date: July 08 2025

Time: 09:17

Crew: Will Sherwin

Weather: (Clear) Foggy Cloudy Rain Snow Windy

In Situ Parameters

pH: 7.5

Temp: 12.1 (°C)

Turbidity: 9.8 NTU

DO: 5.57 (mg/L)

Cond: 144.6 (us)

Visible Sheen: Y / (N)

Water Surface Condition: (Clear) Turbid Foaming Ice

Photo Record

Photo

Photo

Photo

Observations

Jul 8, 2025 10:16:45 a.m.
111° E
Squamish-Lillooet
British Columbia

Water Quality Field Data Sheet

Project: FORTIS11234

Hatfield

Location Information

Site ID: WLNG-US/EAS US

Site Name: WL NG

Site UTM: Zone: E: 123° 15' 1.844

(NAD83) N: 49° 40a. 674

Date: July 08 2025

Time: 09:40

Crew: Will Snerwin

Weather: (Clear) Foggy Cloudy Rain Snow Windy

In Situ Parameters

pH: 7.3

Temp.: 14.5 (°C)

Turbidity: _____ NTU

Visible Sheen: Y (N)

DO: 8.47 (mg/L)

Cond: 63.2 (us)

Water Surface Condition: (Clear) Turbid Foaming Ice

Photo Record

Photo

Photo

Photo

Observations

Jul 8, 2025 10:16:52 a.m.
120° SE
Squamish-Lillooet
British Columbia

Appendix E: Lab Documentation

Your P.O. #: 4800010213
Your Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your C.O.C. #: 108602

Attention: Jennifer Choyce

HATFIELD CONSULTANTS
N. VANCOUVER
200-850 Harbourside Dr
North Vancouver, BC
Canada V7P 0A3

Report Date: 2025/07/16
Report #: R3685883
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C560611
Received: 2025/07/08, 16:14

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	7	N/A	2025/07/09	BBY6SOP-00026	SM 24 2320 B m
Chloride/Sulphate by Auto Colourimetry	7	N/A	2025/07/09	BBY6SOP-00011 / BBY6SOP-00017	SM24-4500-Cl/SO4-E m
Chromium III (Calc'd)	3	N/A	2025/07/11		
Chromium III (Calc'd)	4	N/A	2025/07/15		
Total Hexavalent Chromium	7	N/A	2025/07/11	BBY6SOP-00054	SM 24 3500-Cr B m
Carbon (DOC) -Lab Filtered (2)	7	N/A	2025/07/10	BBY6SOP-00053	SM 24 5310 B m
Fluoride	7	N/A	2025/07/09	BBY6SOP-00037	SM 24 4500-F C m
Glycols in Water by GC/FID (1)	1	N/A	2025/07/11	CAL SOP-00093	BCMOE Glycols 09/17
Sulphide (as H2S) (1)	2	N/A	2025/07/14		Auto Calc
Sulphide (as H2S) (1)	5	N/A	2025/07/15		Auto Calc
Un-ionized Hydrogen Sulphide as S Calc	5	N/A	2025/07/15	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	3	N/A	2025/07/11	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	4	N/A	2025/07/15	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	7	N/A	2025/07/11	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV-Lab Filtered	7	2025/07/11	2025/07/11	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Mercury (Total) by CV	7	2025/07/10	2025/07/10	BBY7SOP-00032	BCMOE LM 2023 C1.1.3
Bromide as Bromine (Br) by ICPMS	7	N/A	2025/07/14	BBY7SOP-00002	EPA 6020B R2 m
EPH in Water when PAH required	1	2025/07/14	2025/07/14	BBY8SOP-00029	BCMOE BCLM Sep2017 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	7	N/A	2025/07/11	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (lab filter) (4)	7	N/A	2025/07/11	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	4	2025/07/12	2025/07/15	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2025/07/11	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2025/07/15	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	3	N/A	2025/07/10	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	7	N/A	2025/07/11	BBY6SOP-00016	SM 24 4500-N C m
Ammonia-N (Total)	7	N/A	2025/07/09	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite (N)	7	N/A	2025/07/10	BBY6SOP-00010	SM 24 4500-NO3- H m
Nitrite (N) Regular Level Water	7	N/A	2025/07/10	BBY6SOP-00010	SM 24 4500-NO2- m
Nitrogen - Nitrate (as N)	7	N/A	2025/07/11	BBY WI-00033	Auto Calc

Your P.O. #: 4800010213
Your Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your C.O.C. #: 108602

Attention: Jennifer Choyce

HATFIELD CONSULTANTS
N. VANCOUVER
200-850 Harbourside Dr
North Vancouver, BC
Canada V7P 0A3

Report Date: 2025/07/16
Report #: R3685883
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C560611
Received: 2025/07/08, 16:14

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
PAH in Water by GC/MS (SIM)	1	2025/07/14	2025/07/14	BBY8SOP-00021	BCMOE BCLM Jul2017m
Total LMW, HMW, Total PAH Calc (5)	1	N/A	2025/07/15	BBY WI-00033	Auto Calc
pH @25°C (6)	7	N/A	2025/07/09	BBY6SOP-00026	SM 24 4500-H+ B m
Phenols (4-AAP) (1)	1	N/A	2025/07/11	AB SOP-00088	EPA 9066 R0 m
Total Sulphide (1)	2	2025/07/14	2025/07/14	AB SOP-00080	SM 24 4500 S2-A D Fm
Total Sulphide (1)	5	2025/07/15	2025/07/15	AB SOP-00080	SM 24 4500 S2-A D Fm
Total Dissolved Solids (Filt. Residue)	7	2025/07/11	2025/07/14	BBY6SOP-00033	SM 24 2540 C m
EPH less PAH in Water by GC/FID (7)	1	N/A	2025/07/15	BBY WI-00033	Auto Calc
Carbon (Total Organic) (8)	7	N/A	2025/07/11	BBY6SOP-00053	SM 24 5310 B m
Total Phosphorus Low Level Total	7	2025/07/11	2025/07/12	BBY6SOP-00013	SM 24 4500-P E m
Total Suspended Solids (NFR)	7	2025/07/14	2025/07/15	BBY6SOP-00034	SM 24 2540 D m
Field pH	5	N/A	2025/07/15	Field Test	Field Test
Field Temperature	5	N/A	2025/07/15	Field Test	Field Test
VOCs, VH, F1, LH in Water by HS GC/MS	1	N/A	2025/07/12	BBY8SOP-00009 / BBY8SOP-00011 / BBY8SOP-00012	BCMOE BCLM Jul2017 m
Volatile HC-BTEX (9)	1	N/A	2025/07/12	BBY WI-00033	Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Your P.O. #: 4800010213
Your Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your C.O.C. #: 108602

Attention: Jennifer Choyce

HATFIELD CONSULTANTS
N. VANCOUVER
200-850 Harbourside Dr
North Vancouver, BC
Canada V7P 0A3

Report Date: 2025/07/16
Report #: R3685883
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C560611
Received: 2025/07/08, 16:14

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.
For Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Total PAHs in Water include: Quinoline, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Acridine, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b&j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) LEPH = EPH (C10 to C19) - (Acenaphthene + Acridine + Anthracene + Fluorene + Naphthalene + Phenanthrene)
HEPH = EPH (C19 to C32) - (Benzo(a)anthracene + Benzo(a)pyrene + Fluoranthene + Pyrene)
(8) TOC present in the sample should be considered as non-purgeable TOC.
(9) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Levi Manchak, Project Manager SR
Email: Levi.MANCHAK@bureauveritas.com
Phone# (780)862-5634
==========
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO541			DOO541			DOO542		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45		
COC Number		108602			108602			108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	ND	0.0050	C014959				ND	0.0050	C014959
Calculated Parameters										
Total Chromium III	mg/L	ND	0.00099	C013686				ND	0.00099	C013686
Dissolved Hardness (CaCO3)	mg/L	48.6	0.50	C013154				49.4	0.50	C013154
Total Hardness (CaCO3)	mg/L	48.3	0.50	C013074				53.5	0.50	C013074
Nitrate (N)	mg/L	ND	0.020	C013273				ND	0.020	C013273
Sulphide (as H2S)	mg/L	ND	0.0020	C013555				ND	0.0020	C013555
Field Parameters										
Field pH	pH	7.5	N/A	ONSITE				7.15	N/A	ONSITE
Field Temperature	°C	12.1	N/A	ONSITE				12.8	N/A	ONSITE
Misc. Inorganics										
pH	pH	7.64	N/A	C014146				7.38	N/A	C014146
Total Organic Carbon (C)	mg/L	1.2	0.50	C015108				1.8	0.50	C015108
Total Dissolved Solids	mg/L	76	10	C016028				76	10	C016030
Total Suspended Solids	mg/L	ND	1.0	C018058				1.6	1.0	C018058
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	0.99	0.50	C015104				1.3	0.50	C015104
Anions										
Alkalinity (PP as CaCO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Alkalinity (Total as CaCO3)	mg/L	49	1.0	C014149				45	1.0	C014149
Bicarbonate (HCO3)	mg/L	60	1.0	C014149				55	1.0	C014149
Carbonate (CO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Dissolved Fluoride (F)	mg/L	0.14	0.050	C014136				0.079	0.050	C014136
Hydroxide (OH)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Total Sulphide	mg/L	ND	0.0018	C018092				ND	0.0018	C018092
Chloride (Cl)	mg/L	10	1.0	C014142				10	1.0	C014142
Sulphate (SO4)	mg/L	7.2	1.0	C014142				7.2	1.0	C014142

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO541			DOO541			DOO542		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45		
COC Number		108602			108602			108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	RDL	QC Batch
Metals										
Total Hex. Chromium (Cr 6+)	mg/L	ND	0.00099	C016127				ND	0.00099	C016127
Nutrients										
Total Ammonia (N)	mg/L	0.018	0.015	C014158	0.018	0.015	C014158	0.063	0.015	C014158
Total Phosphorus (P)	mg/L	0.0025	0.0010	C015841	0.0028	0.0010	C015841	0.0057	0.0010	C015841
Nitrate plus Nitrite (N)	mg/L	ND	0.020	C014957				ND	0.020	C014957
Total Nitrogen (N)	mg/L	0.095	0.020	C014989				0.135	0.020	C014989
Misc. Organics										
Phenols	mg/L							ND	0.0015	C016335

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO542			DOO543	DOO544		DOO545		
Sampling Date		2025/07/08 08:45			2025/07/08 09:40	2025/07/08 13:43		2025/07/08 14:03		
COC Number		108602			108602	108602		108602		
	UNITS	WLNG -EOP Lab-Dup	RDL	QC Batch	WLNG-US	SQRI-US	QC Batch	SQRI-DS	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L				ND	ND	C014959	ND	0.0050	C014959
Calculated Parameters										
Total Chromium III	mg/L				ND	ND	C013686	ND	0.00099	C013686
Dissolved Hardness (CaCO3)	mg/L				8.06	9.72	C013154	8.63	0.50	C013154
Total Hardness (CaCO3)	mg/L				8.29	13.1	C013074	13.7	0.50	C013074
Nitrate (N)	mg/L				ND	ND	C013273	ND	0.020	C013273
Sulphide (as H2S)	mg/L				ND	ND	C013555	ND	0.0020	C013554
Field Parameters										
Field pH	pH				7.3	6.54	ONSITE	6.12	N/A	ONSITE
Field Temperature	°C				14.5	13.6	ONSITE	13.2	N/A	ONSITE
Misc. Inorganics										
pH	pH				6.41	6.57	C014146	6.53	N/A	C014146
Total Organic Carbon (C)	mg/L				1.5	ND	C015108	ND	0.50	C015108
Total Dissolved Solids	mg/L				28	36	C016030	24	10	C016030
Total Suspended Solids	mg/L				1.2	98	C018058	100	1.0	C018058
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				1.5	ND	C015104	ND	0.50	C015104
Anions										
Alkalinity (PP as CaCO3)	mg/L				ND	ND	C014149	ND	1.0	C014149
Alkalinity (Total as CaCO3)	mg/L				7.0	9.2	C014149	7.7	1.0	C014149
Bicarbonate (HCO3)	mg/L				8.5	11	C014149	9.4	1.0	C014149
Carbonate (CO3)	mg/L				ND	ND	C014149	ND	1.0	C014149
Dissolved Fluoride (F)	mg/L				0.13	ND	C014136	ND	0.050	C014136
Hydroxide (OH)	mg/L				ND	ND	C014149	ND	1.0	C014149
Total Sulphide	mg/L				ND	ND	C018846	ND	0.0018	C018846
Chloride (Cl)	mg/L	11	1.0	C014142	ND	ND	C014142	ND	1.0	C014142
Sulphate (SO4)	mg/L	7.3	1.0	C014142	2.4	2.4	C014142	2.1	1.0	C014142

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO542			DOO543	DOO544		DOO545		
Sampling Date		2025/07/08 08:45			2025/07/08 09:40	2025/07/08 13:43		2025/07/08 14:03		
COC Number		108602			108602	108602		108602		
	UNITS	WLNG -EOP Lab-Dup	RDL	QC Batch	WLNG-US	SQRI-US	QC Batch	SQRI-DS	RDL	QC Batch
Metals										
Total Hex. Chromium (Cr 6+)	mg/L				ND	ND	C016127	ND	0.00099	C016127
Nutrients										
Total Ammonia (N)	mg/L				ND	0.056	C014158	0.033	0.015	C014158
Total Phosphorus (P)	mg/L				0.0060	0.10	C015841	0.084	0.0010	C015841
Nitrate plus Nitrite (N)	mg/L				ND	ND	C014957	ND	0.020	C014957
Total Nitrogen (N)	mg/L				0.095	0.111	C014989	0.074	0.020	C014989
Misc. Organics										
Phenols	mg/L	ND	0.0015	C016335						

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO546			DOO546			DOO547		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08		
COC Number		108602			108602			108602		
	UNITS	Field Blank	RDL	QC Batch	Field Blank Lab-Dup	RDL	QC Batch	Trip Blank	RDL	QC Batch
ANIONS										
Nitrite (N)	mg/L	ND	0.0050	C014959				ND	0.0050	C014959
Calculated Parameters										
Total Chromium III	mg/L	ND	0.00099	C013686				ND	0.00099	C013686
Dissolved Hardness (CaCO3)	mg/L	ND	0.50	C013154				ND	0.50	C013154
Total Hardness (CaCO3)	mg/L	ND	0.50	C013074				ND	0.50	C013074
Nitrate (N)	mg/L	ND	0.020	C013273				ND	0.020	C013273
Sulphide (as H2S)	mg/L	ND	0.0020	C013028				ND	0.0020	C013028
Misc. Inorganics										
pH	pH	5.82	N/A	C014146				5.71	N/A	C014146
Total Organic Carbon (C)	mg/L	ND	0.50	C015108				ND	0.50	C015108
Total Dissolved Solids	mg/L	ND	10	C016030	ND	10	C016030	ND	10	C016030
Total Suspended Solids	mg/L	ND	1.0	C018058				ND	1.0	C018058
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	ND	0.50	C015104				ND	0.50	C015104
Anions										
Alkalinity (PP as CaCO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Alkalinity (Total as CaCO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Bicarbonate (HCO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Carbonate (CO3)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Dissolved Fluoride (F)	mg/L	ND	0.050	C014210				ND	0.050	C014210
Hydroxide (OH)	mg/L	ND	1.0	C014149				ND	1.0	C014149
Total Sulphide	mg/L	ND	0.0018	C018846				ND	0.0018	C018846
Chloride (Cl)	mg/L	ND	1.0	C014142				ND	1.0	C014142
Sulphate (SO4)	mg/L	ND	1.0	C014142				ND	1.0	C014142
Metals										
Total Hex. Chromium (Cr 6+)	mg/L	ND	0.00099	C016127	ND	0.00099	C016127	ND	0.00099	C016127

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
N/A = Not Applicable

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO546			DOO546			DOO547		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08		
COC Number		108602			108602			108602		
	UNITS	Field Blank	RDL	QC Batch	Field Blank Lab-Dup	RDL	QC Batch	Trip Blank	RDL	QC Batch
Nutrients										
Total Ammonia (N)	mg/L	ND	0.015	C014158				ND	0.015	C014158
Total Phosphorus (P)	mg/L	ND	0.0010	C015841				ND	0.0010	C015841
Nitrate plus Nitrite (N)	mg/L	ND	0.020	C014957				ND	0.020	C014957
Total Nitrogen (N)	mg/L	ND	0.020	C014989				ND	0.020	C014989

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		DOO547		
Sampling Date		2025/07/08		
COC Number		108602		
	UNITS	**Trip Blank Lab-Dup**	**RDL**	**QC Batch**
Misc. Inorganics				
pH	pH	5.66	N/A	C014146
Total Organic Carbon (C)	mg/L	ND	0.50	C015108
Lab Filtered Inorganics				
Dissolved Organic Carbon (C)	mg/L	ND	0.50	C015104
Anions				
Alkalinity (PP as CaCO3)	mg/L	ND	1.0	C014149
Alkalinity (Total as CaCO3)	mg/L	ND	1.0	C014149
Bicarbonate (HCO3)	mg/L	ND	1.0	C014149
Carbonate (CO3)	mg/L	ND	1.0	C014149
Hydroxide (OH)	mg/L	ND	1.0	C014149
Nutrients				
Total Nitrogen (N)	mg/L	ND	0.020	C014989

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

GLYCOLS BY GC-FID (WATER)

Bureau Veritas ID		DOO542		
Sampling Date		2025/07/08 08:45		
COC Number		108602		
	UNITS	WLNG -EOP	RDL	QC Batch
Glycols				
Ethylene Glycol	mg/L	ND	3.0	C015904
Diethylene Glycol	mg/L	ND	5.0	C015904
Triethylene Glycol	mg/L	ND	5.0	C015904
Propylene Glycol	mg/L	ND	5.0	C015904
Surrogate Recovery (%)				
Methyl Sulfone (sur.)	%	99		C015904

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		DOO541			DOO541			DOO542	DOO543		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45	2025/07/08 09:40		
COC Number		108602			108602			108602	108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	WLNG-US	RDL	QC Batch
Elements											
Total Mercury (Hg)	ug/L	ND	0.0019	C015077				ND	ND	0.0019	C014988
Lab Filtered Elements											
Dissolved Mercury (Hg)	ug/L	ND	0.0019	C016150	ND	0.0019	C016150	ND	ND	0.0019	C016150

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas ID		DOO544	DOO545	DOO546	DOO547		
Sampling Date		2025/07/08 13:43	2025/07/08 14:03	2025/07/08 09:40	2025/07/08		
COC Number		108602	108602	108602	108602		
	UNITS	SQRI-US	SQRI-DS	Field Blank	Trip Blank	RDL	QC Batch
Elements							
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	0.0019	C014988
Lab Filtered Elements							
Dissolved Mercury (Hg)	ug/L	ND	ND	ND	ND	0.0019	C016150

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO541			DOO541			DOO542		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45		
COC Number		108602			108602			108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	RDL	QC Batch
ANIONS										
Bromide (Br)	mg/L	ND	0.010	C018087	ND	0.010	C018087	ND	0.010	C018087
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	18.1	0.050	C013162				18.4	0.050	C013162
Dissolved Magnesium (Mg)	mg/L	0.837	0.050	C013162				0.832	0.050	C013162
Dissolved Potassium (K)	mg/L	1.27	0.050	C013162				1.22	0.050	C013162
Dissolved Sodium (Na)	mg/L	4.97	0.050	C013162				4.97	0.050	C013162
Dissolved Sulphur (S)	mg/L	ND	3.0	C013162				ND	3.0	C013162
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	33.0	0.50	C016113	34.2	0.50	C016113	40.1	0.50	C016113
Dissolved Antimony (Sb)	ug/L	0.146	0.020	C016113	0.142	0.020	C016113	0.164	0.020	C016113
Dissolved Arsenic (As)	ug/L	1.23	0.020	C016113	1.25	0.020	C016113	1.29	0.020	C016113
Dissolved Barium (Ba)	ug/L	7.66	0.020	C016113	7.63	0.020	C016113	8.82	0.020	C016113
Dissolved Beryllium (Be)	ug/L	ND	0.010	C016113	ND	0.010	C016113	ND	0.010	C016113
Dissolved Bismuth (Bi)	ug/L	ND	0.0050	C016113	ND	0.0050	C016113	ND	0.0050	C016113
Dissolved Boron (B)	ug/L	16	10	C016113	15	10	C016113	14	10	C016113
Dissolved Cadmium (Cd)	ug/L	0.0181	0.0050	C016113	0.0184	0.0050	C016113	0.0239	0.0050	C016113
Dissolved Cesium (Cs)	ug/L	ND	0.050	C016113	ND	0.050	C016113	ND	0.050	C016113
Dissolved Chromium (Cr)	ug/L	ND	0.10	C016113	ND	0.10	C016113	ND	0.10	C016113
Dissolved Cobalt (Co)	ug/L	0.131	0.0050	C016113	0.127	0.0050	C016113	0.178	0.0050	C016113
Dissolved Copper (Cu)	ug/L	0.059	0.050	C016113	0.057	0.050	C016113	0.412	0.050	C016113
Dissolved Iron (Fe)	ug/L	1.2	1.0	C016113	1.2	1.0	C016113	1.7	1.0	C016113
Dissolved Lead (Pb)	ug/L	ND	0.0050	C016113	ND	0.0050	C016113	0.0161	0.0050	C016113
Dissolved Lithium (Li)	ug/L	2.28	0.50	C016113	2.19	0.50	C016113	2.09	0.50	C016113
Dissolved Manganese (Mn)	ug/L	55.9	0.050	C016113	54.1	0.050	C016113	78.5	0.050	C016113
Dissolved Molybdenum (Mo)	ug/L	17.7	0.050	C016113	18.0	0.050	C016113	17.4	0.050	C016113
Dissolved Nickel (Ni)	ug/L	0.253	0.020	C016113	0.258	0.020	C016113	0.329	0.020	C016113
Dissolved Phosphorus (P)	ug/L	ND	2.0	C016113	3.2	2.0	C016113	4.1	2.0	C016113
Dissolved Rubidium (Rb)	ug/L	2.95	0.050	C016113	2.78	0.050	C016113	2.83	0.050	C016113
Dissolved Selenium (Se)	ug/L	0.042	0.040	C016113	0.043	0.040	C016113	0.052	0.040	C016113

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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO541			DOO541			DOO542		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45		
COC Number		108602			108602			108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	RDL	QC Batch
Dissolved Silicon (Si)	ug/L	5840	50	C016113	6000	50	C016113	6070	50	C016113
Dissolved Silver (Ag)	ug/L	ND	0.0050	C016113	ND	0.0050	C016113	ND	0.0050	C016113
Dissolved Strontium (Sr)	ug/L	40.9	0.050	C016113	40.7	0.050	C016113	41.2	0.050	C016113
Dissolved Tellurium (Te)	ug/L	ND	0.020	C016113	ND	0.020	C016113	ND	0.020	C016113
Dissolved Thallium (Tl)	ug/L	0.0177	0.0020	C016113	0.0176	0.0020	C016113	0.0158	0.0020	C016113
Dissolved Thorium (Th)	ug/L	ND	0.0050	C016113	ND	0.0050	C016113	ND	0.0050	C016113
Dissolved Tin (Sn)	ug/L	ND	0.20	C016113	ND	0.20	C016113	ND	0.20	C016113
Dissolved Titanium (Ti)	ug/L	ND	0.50	C016113	ND	0.50	C016113	ND	0.50	C016113
Dissolved Uranium (U)	ug/L	0.211	0.0020	C016113	0.211	0.0020	C016113	0.170	0.0020	C016113
Dissolved Vanadium (V)	ug/L	ND	0.20	C016113	ND	0.20	C016113	ND	0.20	C016113
Dissolved Zinc (Zn)	ug/L	0.98	0.10	C016113	0.98	0.10	C016113	3.52	0.10	C016113
Dissolved Zirconium (Zr)	ug/L	ND	0.10	C016113	ND	0.10	C016113	ND	0.10	C016113
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	122	3.0	C017195				92.4	0.50	C014808
Total Antimony (Sb)	ug/L	0.149	0.020	C017195				0.160	0.020	C014808
Total Arsenic (As)	ug/L	1.26	0.020	C017195				1.44	0.020	C014808
Total Barium (Ba)	ug/L	7.69	0.050	C017195				9.08	0.020	C014808
Total Beryllium (Be)	ug/L	ND	0.010	C017195				ND	0.010	C014808
Total Bismuth (Bi)	ug/L	ND	0.010	C017195				ND	0.0050	C014808
Total Boron (B)	ug/L	13	10	C017195				12	10	C014808
Total Cadmium (Cd)	ug/L	0.0180	0.0050	C017195				0.0207	0.0050	C014808
Total Cesium (Cs)	ug/L	ND	0.050	C017195				ND	0.050	C014808
Total Chromium (Cr)	ug/L	ND	0.10	C017195				ND	0.10	C014808
Total Cobalt (Co)	ug/L	0.148	0.010	C017195				0.175	0.0050	C014808
Total Copper (Cu)	ug/L	0.23	0.10	C017195				0.639	0.050	C014808
Total Iron (Fe)	ug/L	56.4	5.0	C017195				9.7	1.0	C014808
Total Lead (Pb)	ug/L	ND	0.020	C017195				0.0491	0.0050	C014808
Total Lithium (Li)	ug/L	2.31	0.50	C017195				2.32	0.50	C014808
Total Manganese (Mn)	ug/L	65.7	0.10	C017195				82.5	0.050	C014808
Total Molybdenum (Mo)	ug/L	16.6	0.050	C017195				17.6	0.050	C014808

RDL = Reportable Detection Limit
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Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO541			DOO541			DOO542		
Sampling Date		2025/07/08 09:17			2025/07/08 09:17			2025/07/08 08:45		
COC Number		108602			108602			108602		
	UNITS	WLNG-DS	RDL	QC Batch	WLNG-DS Lab-Dup	RDL	QC Batch	WLNG -EOP	RDL	QC Batch
Total Nickel (Ni)	ug/L	0.27	0.10	C017195				0.390	0.020	C014808
Total Phosphorus (P)	ug/L	ND	5.0	C017195				4.1	2.0	C014808
Total Rubidium (Rb)	ug/L	2.43	0.050	C017195				3.07	0.050	C014808
Total Selenium (Se)	ug/L	ND	0.040	C017195				0.054	0.040	C014808
Total Silicon (Si)	ug/L	6190	50	C017195				5970	50	C014808
Total Silver (Ag)	ug/L	0.012	0.010	C017195				ND	0.0050	C014808
Total Strontium (Sr)	ug/L	40.9	0.050	C017195				43.4	0.050	C014808
Total Tellurium (Te)	ug/L	ND	0.020	C017195				ND	0.020	C014808
Total Thallium (Tl)	ug/L	0.0140	0.0020	C017195				0.0157	0.0020	C014808
Total Thorium (Th)	ug/L	ND	0.050	C017195				ND	0.050	C014808
Total Tin (Sn)	ug/L	ND	0.20	C017195				ND	0.20	C014808
Total Titanium (Ti)	ug/L	ND	2.0	C017195				ND	0.50	C014808
Total Uranium (U)	ug/L	0.274	0.0050	C017195				0.209	0.0020	C014808
Total Vanadium (V)	ug/L	ND	0.20	C017195				ND	0.20	C014808
Total Zinc (Zn)	ug/L	2.0	1.0	C017195				4.49	0.10	C014808
Total Zirconium (Zr)	ug/L	ND	0.10	C017195				ND	0.10	C014808
Total Calcium (Ca)	mg/L	17.9	0.25	C013165				19.9	0.050	C013165
Total Magnesium (Mg)	mg/L	0.89	0.25	C013165				0.938	0.050	C013165
Total Potassium (K)	mg/L	1.31	0.25	C013165				1.26	0.050	C013165
Total Sodium (Na)	mg/L	5.10	0.25	C013165				5.63	0.050	C013165
Total Sulphur (S)	mg/L	ND	3.0	C013165				ND	3.0	C013165

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO543			DOO543			DOO544	DOO545		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08 13:43	2025/07/08 14:03		
COC Number		108602			108602			108602	108602		
	UNITS	WLNG-US	RDL	QC Batch	WLNG-US Lab-Dup	RDL	QC Batch	SQRI-US	SQRI-DS	RDL	QC Batch
ANIONS											
Bromide (Br)	mg/L	ND	0.010	C018087				ND	ND	0.010	C018087
Dissolved Metals by ICPMS											
Dissolved Calcium (Ca)	mg/L	2.76	0.050	C013162				3.34	2.96	0.050	C013162
Dissolved Magnesium (Mg)	mg/L	0.285	0.050	C013162				0.338	0.302	0.050	C013162
Dissolved Potassium (K)	mg/L	0.191	0.050	C013162				0.409	0.416	0.050	C013162
Dissolved Sodium (Na)	mg/L	1.70	0.050	C013162				1.10	0.972	0.050	C013162
Dissolved Sulphur (S)	mg/L	ND	3.0	C013162				ND	ND	3.0	C013162
Lab Filtered Metals											
Dissolved Aluminum (Al)	ug/L	30.7	0.50	C016113				23.2	26.5	0.50	C016113
Dissolved Antimony (Sb)	ug/L	0.027	0.020	C016113				ND	ND	0.020	C016113
Dissolved Arsenic (As)	ug/L	0.098	0.020	C016113				0.101	0.095	0.020	C016113
Dissolved Barium (Ba)	ug/L	5.17	0.020	C016113				3.63	3.86	0.020	C016113
Dissolved Beryllium (Be)	ug/L	ND	0.010	C016113				ND	ND	0.010	C016113
Dissolved Bismuth (Bi)	ug/L	ND	0.0050	C016113				ND	ND	0.0050	C016113
Dissolved Boron (B)	ug/L	ND	10	C016113				ND	ND	10	C016113
Dissolved Cadmium (Cd)	ug/L	0.0109	0.0050	C016113				0.0081	ND	0.0050	C016113
Dissolved Cesium (Cs)	ug/L	ND	0.050	C016113				ND	ND	0.050	C016113
Dissolved Chromium (Cr)	ug/L	ND	0.10	C016113				ND	ND	0.10	C016113
Dissolved Cobalt (Co)	ug/L	0.0235	0.0050	C016113				0.0314	0.0301	0.0050	C016113
Dissolved Copper (Cu)	ug/L	0.518	0.050	C016113				0.336	0.355	0.050	C016113
Dissolved Iron (Fe)	ug/L	30.9	1.0	C016113				20.4	20.0	1.0	C016113
Dissolved Lead (Pb)	ug/L	0.0151	0.0050	C016113				0.0052	ND	0.0050	C016113
Dissolved Lithium (Li)	ug/L	ND	0.50	C016113				ND	ND	0.50	C016113
Dissolved Manganese (Mn)	ug/L	1.11	0.050	C016113				4.20	3.92	0.050	C016113
Dissolved Molybdenum (Mo)	ug/L	0.458	0.050	C016113				0.406	0.379	0.050	C016113
Dissolved Nickel (Ni)	ug/L	0.292	0.020	C016113				0.071	0.075	0.020	C016113
Dissolved Phosphorus (P)	ug/L	8.4	2.0	C016113				14.7	9.0	2.0	C016113
Dissolved Rubidium (Rb)	ug/L	0.473	0.050	C016113				0.616	0.648	0.050	C016113
Dissolved Selenium (Se)	ug/L	ND	0.040	C016113				ND	ND	0.040	C016113

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO543			DOO543			DOO544	DOO545		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08 13:43	2025/07/08 14:03		
COC Number		108602			108602			108602	108602		
	UNITS	WLNG-US	RDL	QC Batch	WLNG-US Lab-Dup	RDL	QC Batch	SQRI-US	SQRI-DS	RDL	QC Batch
Dissolved Silicon (Si)	ug/L	4360	50	C016113				2610	2200	50	C016113
Dissolved Silver (Ag)	ug/L	ND	0.0050	C016113				ND	ND	0.0050	C016113
Dissolved Strontium (Sr)	ug/L	14.9	0.050	C016113				19.7	17.3	0.050	C016113
Dissolved Tellurium (Te)	ug/L	ND	0.020	C016113				ND	ND	0.020	C016113
Dissolved Thallium (Tl)	ug/L	0.0027	0.0020	C016113				0.0023	0.0023	0.0020	C016113
Dissolved Thorium (Th)	ug/L	0.0059	0.0050	C016113				ND	ND	0.0050	C016113
Dissolved Tin (Sn)	ug/L	ND	0.20	C016113				ND	ND	0.20	C016113
Dissolved Titanium (Ti)	ug/L	ND	0.50	C016113				0.65	0.89	0.50	C016113
Dissolved Uranium (U)	ug/L	0.0533	0.0020	C016113				0.0166	0.0147	0.0020	C016113
Dissolved Vanadium (V)	ug/L	ND	0.20	C016113				0.84	0.70	0.20	C016113
Dissolved Zinc (Zn)	ug/L	0.78	0.10	C016113				0.25	0.31	0.10	C016113
Dissolved Zirconium (Zr)	ug/L	ND	0.10	C016113				ND	ND	0.10	C016113
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	55.2 (1)	3.0	C017195	41.8 (2)	3.0	C017195	1290	1870	3.0	C017195
Total Antimony (Sb)	ug/L	0.046	0.020	C017195	0.038	0.020	C017195	0.052	0.032	0.020	C017195
Total Arsenic (As)	ug/L	0.063	0.020	C017195	0.066	0.020	C017195	0.143	0.179	0.020	C017195
Total Barium (Ba)	ug/L	5.41	0.050	C017195	5.24	0.050	C017195	19.8	26.0	0.050	C017195
Total Beryllium (Be)	ug/L	ND	0.010	C017195	ND	0.010	C017195	0.024	0.029	0.010	C017195
Total Bismuth (Bi)	ug/L	ND	0.010	C017195	ND	0.010	C017195	ND	ND	0.010	C017195
Total Boron (B)	ug/L	ND	10	C017195	ND	10	C017195	ND	ND	10	C017195
Total Cadmium (Cd)	ug/L	0.0050	0.0050	C017195	0.0050	0.0050	C017195	0.0070	0.0080	0.0050	C017195
Total Cesium (Cs)	ug/L	ND	0.050	C017195	ND	0.050	C017195	ND	ND	0.050	C017195
Total Chromium (Cr)	ug/L	ND	0.10	C017195	ND	0.10	C017195	0.69	0.78	0.10	C017195
Total Cobalt (Co)	ug/L	0.036	0.010	C017195	0.028	0.010	C017195	0.425	0.633	0.010	C017195
Total Copper (Cu)	ug/L	0.64	0.10	C017195	0.59	0.10	C017195	2.43	3.10	0.10	C017195
Total Iron (Fe)	ug/L	56.3 (1)	5.0	C017195	45.8 (2)	5.0	C017195	892	1330	5.0	C017195
Total Lead (Pb)	ug/L	0.030	0.020	C017195	0.022	0.020	C017195	0.188	0.243	0.020	C017195

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.
(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO543			DOO543			DOO544	DOO545		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08 13:43	2025/07/08 14:03		
COC Number		108602			108602			108602	108602		
	UNITS	WLNG-US	RDL	QC Batch	WLNG-US Lab-Dup	RDL	QC Batch	SQRI-US	SQRI-DS	RDL	QC Batch
Total Lithium (Li)	ug/L	ND	0.50	C017195	ND	0.50	C017195	1.15	1.43	0.50	C017195
Total Manganese (Mn)	ug/L	1.93 (1)	0.10	C017195	1.33 (2)	0.10	C017195	25.7	36.0	0.10	C017195
Total Molybdenum (Mo)	ug/L	0.451	0.050	C017195	0.429	0.050	C017195	0.422	0.431	0.050	C017195
Total Nickel (Ni)	ug/L	0.25	0.10	C017195	0.24	0.10	C017195	0.53	0.75	0.10	C017195
Total Phosphorus (P)	ug/L	11.8	5.0	C017195	6.9	5.0	C017195	80.2	94.4	5.0	C017195
Total Rubidium (Rb)	ug/L	0.413	0.050	C017195	0.411	0.050	C017195	1.60	2.13	0.050	C017195
Total Selenium (Se)	ug/L	ND	0.040	C017195	ND	0.040	C017195	ND	ND	0.040	C017195
Total Silicon (Si)	ug/L	4730	50	C017195	4720	50	C017195	4450	5020	50	C017195
Total Silver (Ag)	ug/L	0.011	0.010	C017195	0.010	0.010	C017195	0.022	0.017	0.010	C017195
Total Strontium (Sr)	ug/L	15.3	0.050	C017195	15.7	0.050	C017195	30.0	32.6	0.050	C017195
Total Tellurium (Te)	ug/L	ND	0.020	C017195	ND	0.020	C017195	ND	ND	0.020	C017195
Total Thallium (Tl)	ug/L	0.0020	0.0020	C017195	0.0020	0.0020	C017195	0.0080	0.0120	0.0020	C017195
Total Thorium (Th)	ug/L	ND	0.050	C017195	ND	0.050	C017195	ND	0.053	0.050	C017195
Total Tin (Sn)	ug/L	ND	0.20	C017195	ND	0.20	C017195	ND	ND	0.20	C017195
Total Titanium (Ti)	ug/L	ND	2.0	C017195	ND	2.0	C017195	54.6	89.2	2.0	C017195
Total Uranium (U)	ug/L	0.0550	0.0050	C017195	0.0570	0.0050	C017195	0.0480	0.0600	0.0050	C017195
Total Vanadium (V)	ug/L	ND	0.20	C017195	ND	0.20	C017195	2.58	3.58	0.20	C017195
Total Zinc (Zn)	ug/L	1.5	1.0	C017195	ND	1.0	C017195	3.3	4.7	1.0	C017195
Total Zirconium (Zr)	ug/L	ND	0.10	C017195	ND	0.10	C017195	0.25	0.21	0.10	C017195
Total Calcium (Ca)	mg/L	2.80	0.25	C013165				3.98	3.95	0.25	C013165
Total Magnesium (Mg)	mg/L	0.31	0.25	C013165				0.76	0.93	0.25	C013165
Total Potassium (K)	mg/L	ND	0.25	C013165				0.73	0.87	0.25	C013165
Total Sodium (Na)	mg/L	1.86	0.25	C013165				1.43	1.43	0.25	C013165
Total Sulphur (S)	mg/L	ND	3.0	C013165				ND	ND	3.0	C013165

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.
(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO546			DOO546			DOO547		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08		
COC Number		108602			108602			108602		
	UNITS	Field Blank	RDL	QC Batch	Field Blank Lab-Dup	RDL	QC Batch	Trip Blank	RDL	QC Batch
ANIONS										
Bromide (Br)	mg/L	ND	0.010	C018087				ND	0.010	C018087
Dissolved Metals by ICPMS										
Dissolved Calcium (Ca)	mg/L	ND	0.050	C013162				ND	0.050	C013162
Dissolved Magnesium (Mg)	mg/L	ND	0.050	C013162				ND	0.050	C013162
Dissolved Potassium (K)	mg/L	ND	0.050	C013162				ND	0.050	C013162
Dissolved Sodium (Na)	mg/L	ND	0.050	C013162				ND	0.050	C013162
Dissolved Sulphur (S)	mg/L	ND	3.0	C013162				ND	3.0	C013162
Lab Filtered Metals										
Dissolved Aluminum (Al)	ug/L	ND	0.50	C016113				ND	0.50	C016113
Dissolved Antimony (Sb)	ug/L	ND	0.020	C016113				ND	0.020	C016113
Dissolved Arsenic (As)	ug/L	ND	0.020	C016113				ND	0.020	C016113
Dissolved Barium (Ba)	ug/L	ND	0.020	C016113				ND	0.020	C016113
Dissolved Beryllium (Be)	ug/L	ND	0.010	C016113				ND	0.010	C016113
Dissolved Bismuth (Bi)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Boron (B)	ug/L	ND	10	C016113				ND	10	C016113
Dissolved Cadmium (Cd)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Cesium (Cs)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Chromium (Cr)	ug/L	ND	0.10	C016113				ND	0.10	C016113
Dissolved Cobalt (Co)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Copper (Cu)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Iron (Fe)	ug/L	ND	1.0	C016113				ND	1.0	C016113
Dissolved Lead (Pb)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Lithium (Li)	ug/L	ND	0.50	C016113				ND	0.50	C016113
Dissolved Manganese (Mn)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Molybdenum (Mo)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Nickel (Ni)	ug/L	ND	0.020	C016113				ND	0.020	C016113
Dissolved Phosphorus (P)	ug/L	3.7	2.0	C016113				ND	2.0	C016113
Dissolved Rubidium (Rb)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Selenium (Se)	ug/L	ND	0.040	C016113				ND	0.040	C016113

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO546			DOO546			DOO547		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08		
COC Number		108602			108602			108602		
	UNITS	Field Blank	RDL	QC Batch	Field Blank Lab-Dup	RDL	QC Batch	Trip Blank	RDL	QC Batch
Dissolved Silicon (Si)	ug/L	ND	50	C016113				ND	50	C016113
Dissolved Silver (Ag)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Strontium (Sr)	ug/L	ND	0.050	C016113				ND	0.050	C016113
Dissolved Tellurium (Te)	ug/L	ND	0.020	C016113				ND	0.020	C016113
Dissolved Thallium (Tl)	ug/L	ND	0.0020	C016113				ND	0.0020	C016113
Dissolved Thorium (Th)	ug/L	ND	0.0050	C016113				ND	0.0050	C016113
Dissolved Tin (Sn)	ug/L	ND	0.20	C016113				ND	0.20	C016113
Dissolved Titanium (Ti)	ug/L	ND	0.50	C016113				ND	0.50	C016113
Dissolved Uranium (U)	ug/L	ND	0.0020	C016113				ND	0.0020	C016113
Dissolved Vanadium (V)	ug/L	ND	0.20	C016113				ND	0.20	C016113
Dissolved Zinc (Zn)	ug/L	ND	0.10	C016113				ND	0.10	C016113
Dissolved Zirconium (Zr)	ug/L	ND	0.10	C016113				ND	0.10	C016113
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	1.03	0.50	C014808	1.00	0.50	C014808	ND	0.50	C014808
Total Antimony (Sb)	ug/L	ND	0.020	C014808	ND	0.020	C014808	ND	0.020	C014808
Total Arsenic (As)	ug/L	ND	0.020	C014808	ND	0.020	C014808	ND	0.020	C014808
Total Barium (Ba)	ug/L	ND	0.020	C014808	ND	0.020	C014808	ND	0.020	C014808
Total Beryllium (Be)	ug/L	ND	0.010	C014808	ND	0.010	C014808	ND	0.010	C014808
Total Bismuth (Bi)	ug/L	ND	0.0050	C014808	ND	0.0050	C014808	ND	0.0050	C014808
Total Boron (B)	ug/L	ND	10	C014808	ND	10	C014808	ND	10	C014808
Total Cadmium (Cd)	ug/L	ND	0.0050	C014808	ND	0.0050	C014808	ND	0.0050	C014808
Total Cesium (Cs)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808
Total Chromium (Cr)	ug/L	0.45	0.10	C014808	0.48	0.10	C014808	ND	0.10	C014808
Total Cobalt (Co)	ug/L	0.0062	0.0050	C014808	0.0070	0.0050	C014808	ND	0.0050	C014808
Total Copper (Cu)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808
Total Iron (Fe)	ug/L	4.0	1.0	C014808	3.9	1.0	C014808	ND	1.0	C014808
Total Lead (Pb)	ug/L	ND	0.0050	C014808	ND	0.0050	C014808	ND	0.0050	C014808
Total Lithium (Li)	ug/L	ND	0.50	C014808	ND	0.50	C014808	ND	0.50	C014808
Total Manganese (Mn)	ug/L	0.089	0.050	C014808	0.110	0.050	C014808	ND	0.050	C014808
Total Molybdenum (Mo)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Bureau Veritas Job #: C560611
Report Date: 2025/07/16

HATFIELD CONSULTANTS
Client Project #: FORTIS11234/PE-110163
Site Location: WOODFIBRE PIPELINE PROJECT
Your P.O. #: 4800010213

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		DOO546			DOO546			DOO547		
Sampling Date		2025/07/08 09:40			2025/07/08 09:40			2025/07/08		
COC Number		108602			108602			108602		
	UNITS	Field Blank	RDL	QC Batch	Field Blank Lab-Dup	RDL	QC Batch	Trip Blank	RDL	QC Batch
Total Nickel (Ni)	ug/L	0.348	0.020	C014808	0.386	0.020	C014808	ND	0.020	C014808
Total Phosphorus (P)	ug/L	2.4	2.0	C014808	ND	2.0	C014808	2.3	2.0	C014808
Total Rubidium (Rb)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808
Total Selenium (Se)	ug/L	ND	0.040	C014808	ND	0.040	C014808	ND	0.040	C014808
Total Silicon (Si)	ug/L	ND	50	C014808	ND	50	C014808	ND	50	C014808
Total Silver (Ag)	ug/L	ND	0.0050	C014808	ND	0.0050	C014808	ND	0.0050	C014808
Total Strontium (Sr)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808
Total Tellurium (Te)	ug/L	ND	0.020	C014808	ND	0.020	C014808	ND	0.020	C014808
Total Thallium (Tl)	ug/L	ND	0.0020	C014808	ND	0.0020	C014808	ND	0.0020	C014808
Total Thorium (Th)	ug/L	ND	0.050	C014808	ND	0.050	C014808	ND	0.050	C014808
Total Tin (Sn)	ug/L	ND	0.20	C014808	ND	0.20	C014808	ND	0.20	C014808
Total Titanium (Ti)	ug/L	ND	0.50	C014808	ND	0.50	C014808	ND	0.50	C014808
Total Uranium (U)	ug/L	ND	0.0020	C014808	ND	0.0020	C014808	ND	0.0020	C014808
Total Vanadium (V)	ug/L	ND	0.20	C014808	ND	0.20	C014808	ND	0.20	C014808
Total Zinc (Zn)	ug/L	ND	0.10	C014808	ND	0.10	C014808	ND	0.10	C014808
Total Zirconium (Zr)	ug/L	ND	0.10	C014808	ND	0.10	C014808	ND	0.10	C014808
Total Calcium (Ca)	mg/L	ND	0.050	C013165				ND	0.050	C013165
Total Magnesium (Mg)	mg/L	ND	0.050	C013165				ND	0.050	C013165
Total Potassium (K)	mg/L	ND	0.050	C013165				ND	0.050	C013165
Total Sodium (Na)	mg/L	ND	0.050	C013165				ND	0.050	C013165
Total Sulphur (S)	mg/L	ND	3.0	C013165				ND	3.0	C013165

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

MISCELLANEOUS (WATER)

Bureau Veritas ID		DOO541	DOO542	DOO543	DOO544	DOO545		
Sampling Date		2025/07/08 09:17	2025/07/08 08:45	2025/07/08 09:40	2025/07/08 13:43	2025/07/08 14:03		
COC Number		108602	108602	108602	108602	108602		
	UNITS	WLNG-DS	WLNG -EOP	WLNG-US	SQRI-US	SQRI-DS	RDL	QC Batch
Calculated Parameters								
Total Un-ionized Hydrogen Sulfide as S	mg/L	ND	ND	ND	ND	ND	0.0018	C013696
Total Un-ionized Hydrogen Sulfide as H2S	mg/L	ND	ND	ND	ND	ND	0.0019	C013696

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LEPH & HEPH WITH CSR/CCME PAH IN WATER (WATER)

Bureau Veritas ID		DOO542		
Sampling Date		2025/07/08 08:45		
COC Number		108602		
	UNITS	WLNG -EOP	RDL	QC Batch
Calculated Parameters				
Low Molecular Weight PAH`s	ug/L	ND	0.10	C013076
High Molecular Weight PAH`s	ug/L	ND	0.050	C013076
Total PAH	ug/L	ND	0.10	C013076
Polycyclic Aromatics				
Quinoline	ug/L	ND	0.020	C017872
Naphthalene	ug/L	ND	0.10	C017872
1-Methylnaphthalene	ug/L	ND	0.050	C017872
2-Methylnaphthalene	ug/L	ND	0.10	C017872
Acenaphthylene	ug/L	ND	0.050	C017872
Acenaphthene	ug/L	ND	0.050	C017872
Fluorene	ug/L	ND	0.050	C017872
Phenanthrene	ug/L	ND	0.050	C017872
Anthracene	ug/L	ND	0.010	C017872
Acridine	ug/L	ND	0.050	C017872
Fluoranthene	ug/L	ND	0.020	C017872
Pyrene	ug/L	ND	0.020	C017872
Benzo(a)anthracene	ug/L	ND	0.010	C017872
Chrysene	ug/L	ND	0.020	C017872
Benzo(b&j)fluoranthene	ug/L	ND	0.030	C017872
Benzo(k)fluoranthene	ug/L	ND	0.050	C017872
Benzo(a)pyrene	ug/L	ND	0.0050	C017872
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.050	C017872
Dibenz(a,h)anthracene	ug/L	ND	0.0030	C017872
Benzo(g,h,i)perylene	ug/L	ND	0.050	C017872
Calculated Parameters				
LEPH (C10-C19 less PAH)	mg/L	ND	0.20	C013077
HEPH (C19-C32 less PAH)	mg/L	ND	0.20	C013077
Ext. Pet. Hydrocarbon				
EPH (C10-C19)	mg/L	ND	0.20	C017877
EPH (C19-C32)	mg/L	ND	0.20	C017877

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LEPH & HEPH WITH CSR/CCME PAH IN WATER (WATER)

Bureau Veritas ID		DOO542		
Sampling Date		2025/07/08 08:45		
COC Number		108602		
	UNITS	WLNG -EOP	RDL	QC Batch
Surrogate Recovery (%)				
O-TERPHENYL (sur.)	%	101		C017877
D10-ANTHRACENE (sur.)	%	98		C017872
D8-ACENAPHTHYLENE (sur.)	%	97		C017872
D8-NAPHTHALENE (sur.)	%	88		C017872
TERPHENYL-D14 (sur.)	%	97		C017872
RDL = Reportable Detection Limit				

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CSR VOC + VPH IN WATER (WATER)

Bureau Veritas ID		DOO542		
Sampling Date		2025/07/08 08:45		
COC Number		108602		
	UNITS	WLNG -EOP	RDL	QC Batch
Calculated Parameters				
VPH (VH6 to 10 - BTEX)	ug/L	ND	300	C013078
Volatiles				
VH C6-C10	ug/L	ND	300	C016033
1,1,1,2-tetrachloroethane	ug/L	ND	0.50	C016033
1,1,1-trichloroethane	ug/L	ND	0.50	C016033
1,1,2,2-tetrachloroethane	ug/L	ND	0.50	C016033
1,1,2Trichloro-1,2,2Trifluoroethane	ug/L	ND	2.0	C016033
1,1,2-trichloroethane	ug/L	ND	0.50	C016033
1,1-dichloroethane	ug/L	ND	0.50	C016033
1,1-dichloroethene	ug/L	ND	0.50	C016033
1,2,3-trichlorobenzene	ug/L	ND	2.0	C016033
1,2,4-trichlorobenzene	ug/L	ND	2.0	C016033
1,2-dibromoethane	ug/L	ND	0.20	C016033
1,2-dichlorobenzene	ug/L	ND	0.50	C016033
1,2-dichloroethane	ug/L	ND	0.50	C016033
1,2-dichloropropane	ug/L	ND	0.50	C016033
1,3,5-trimethylbenzene	ug/L	ND	2.0	C016033
1,3-Butadiene	ug/L	ND	0.50	C016033
1,3-dichlorobenzene	ug/L	ND	0.50	C016033
1,3-dichloropropane	ug/L	ND	1.0	C016033
1,4-dichlorobenzene	ug/L	ND	0.50	C016033
Benzene	ug/L	ND	0.40	C016033
Bromobenzene	ug/L	ND	2.0	C016033
Bromodichloromethane	ug/L	ND	1.0	C016033
Bromoform	ug/L	ND	1.0	C016033
Bromomethane	ug/L	ND	1.0	C016033
Carbon tetrachloride	ug/L	ND	0.50	C016033
Chlorobenzene	ug/L	ND	0.50	C016033
Dibromochloromethane	ug/L	ND	1.0	C016033
Chloroethane	ug/L	ND	1.0	C016033

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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CSR VOC + VPH IN WATER (WATER)

Bureau Veritas ID		DOO542		
Sampling Date		2025/07/08 08:45		
COC Number		108602		
	UNITS	WLNG -EOP	RDL	QC Batch
Chloroform	ug/L	ND	1.0	C016033
Chloromethane	ug/L	ND	1.0	C016033
cis-1,2-dichloroethene	ug/L	ND	1.0	C016033
cis-1,3-dichloropropene	ug/L	ND	1.0	C016033
Dichlorodifluoromethane	ug/L	ND	2.0	C016033
Dichloromethane	ug/L	ND	2.0	C016033
Ethylbenzene	ug/L	ND	0.40	C016033
Hexachlorobutadiene	ug/L	ND	0.50	C016033
Isopropylbenzene	ug/L	ND	2.0	C016033
Methyl-tert-butylether (MTBE)	ug/L	ND	4.0	C016033
Styrene	ug/L	3.9	0.50	C016033
Tetrachloroethene	ug/L	ND	0.50	C016033
Toluene	ug/L	ND	0.40	C016033
trans-1,2-dichloroethene	ug/L	ND	1.0	C016033
trans-1,3-dichloropropene	ug/L	ND	1.0	C016033
Trichloroethene	ug/L	ND	0.50	C016033
Trichlorofluoromethane	ug/L	ND	4.0	C016033
Vinyl chloride	ug/L	ND	0.50	C016033
m & p-Xylene	ug/L	ND	0.40	C016033
o-Xylene	ug/L	ND	0.40	C016033
Xylenes (Total)	ug/L	ND	0.40	C016033
Surrogate Recovery (%)				
1,4-Difluorobenzene (sur.)	%	102		C016033
4-Bromofluorobenzene (sur.)	%	85		C016033
D4-1,2-Dichloroethane (sur.)	%	96		C016033

RDL = Reportable Detection Limit
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C014136	JAV	Matrix Spike	Dissolved Fluoride (F)	2025/07/09		81	%	80 - 120
C014136	JAV	Spiked Blank	Dissolved Fluoride (F)	2025/07/09		100	%	80 - 120
C014136	JAV	Method Blank	Dissolved Fluoride (F)	2025/07/09	ND, RDL=0.050		mg/L	
C014136	JAV	RPD	Dissolved Fluoride (F)	2025/07/09	NC		%	20
C014142	JLP	Matrix Spike [DOO542-01]	Chloride (Cl)	2025/07/09		98	%	80 - 120
			Sulphate (SO4)	2025/07/09		102	%	80 - 120
C014142	JLP	Spiked Blank	Chloride (Cl)	2025/07/09		100	%	80 - 120
			Sulphate (SO4)	2025/07/09		95	%	80 - 120
C014142	JLP	Method Blank	Chloride (Cl)	2025/07/09	ND, RDL=1.0		mg/L	
			Sulphate (SO4)	2025/07/09	ND, RDL=1.0		mg/L	
C014142	JLP	RPD [DOO542-01]	Chloride (Cl)	2025/07/09	1.6		%	20
			Sulphate (SO4)	2025/07/09	2.1		%	20
C014146	BB3	Spiked Blank	pH	2025/07/09		100	%	97 - 103
C014146	BB3	RPD [DOO547-01]	pH	2025/07/09	0.85		%	N/A
C014149	BB3	Spiked Blank	Alkalinity (Total as CaCO3)	2025/07/09		98	%	80 - 120
C014149	BB3	Method Blank	Alkalinity (PP as CaCO3)	2025/07/09	ND, RDL=1.0		mg/L	
			Alkalinity (Total as CaCO3)	2025/07/09	ND, RDL=1.0		mg/L	
			Bicarbonate (HCO3)	2025/07/09	ND, RDL=1.0		mg/L	
			Carbonate (CO3)	2025/07/09	ND, RDL=1.0		mg/L	
			Hydroxide (OH)	2025/07/09	ND, RDL=1.0		mg/L	
C014149	BB3	RPD [DOO547-01]	Alkalinity (PP as CaCO3)	2025/07/09	NC		%	20
			Alkalinity (Total as CaCO3)	2025/07/09	NC		%	20
			Bicarbonate (HCO3)	2025/07/09	NC		%	20
			Carbonate (CO3)	2025/07/09	NC		%	20
			Hydroxide (OH)	2025/07/09	NC		%	20
C014158	TSO	Matrix Spike [DOO541-09]	Total Ammonia (N)	2025/07/09		93	%	80 - 120
C014158	TSO	Spiked Blank	Total Ammonia (N)	2025/07/09		107	%	80 - 120
C014158	TSO	Method Blank	Total Ammonia (N)	2025/07/09	ND, RDL=0.015		mg/L	
C014158	TSO	RPD [DOO541-09]	Total Ammonia (N)	2025/07/09	0.95		%	20
C014210	JAV	Matrix Spike	Dissolved Fluoride (F)	2025/07/09		96	%	80 - 120
C014210	JAV	Spiked Blank	Dissolved Fluoride (F)	2025/07/09		101	%	80 - 120
C014210	JAV	Method Blank	Dissolved Fluoride (F)	2025/07/09	ND, RDL=0.050		mg/L	
C014210	JAV	RPD	Dissolved Fluoride (F)	2025/07/09	NC		%	20
C014808	AA1	Matrix Spike	Total Aluminum (Al)	2025/07/10		98	%	80 - 120
			Total Antimony (Sb)	2025/07/10		100	%	80 - 120
			Total Arsenic (As)	2025/07/10		103	%	80 - 120
			Total Barium (Ba)	2025/07/10		98	%	80 - 120
			Total Beryllium (Be)	2025/07/10		99	%	80 - 120
			Total Bismuth (Bi)	2025/07/10		97	%	80 - 120
			Total Boron (B)	2025/07/10		98	%	80 - 120
			Total Cadmium (Cd)	2025/07/10		98	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Cesium (Cs)	2025/07/10		98	%	80 - 120
			Total Chromium (Cr)	2025/07/10		95	%	80 - 120
			Total Cobalt (Co)	2025/07/10		89	%	80 - 120
			Total Copper (Cu)	2025/07/10		88	%	80 - 120
			Total Iron (Fe)	2025/07/10		102	%	80 - 120
			Total Lead (Pb)	2025/07/10		99	%	80 - 120
			Total Lithium (Li)	2025/07/10		92	%	80 - 120
			Total Manganese (Mn)	2025/07/10		96	%	80 - 120
			Total Molybdenum (Mo)	2025/07/10		104	%	80 - 120
			Total Nickel (Ni)	2025/07/10		92	%	80 - 120
			Total Phosphorus (P)	2025/07/10		103	%	80 - 120
			Total Rubidium (Rb)	2025/07/10		95	%	80 - 120
			Total Selenium (Se)	2025/07/10		103	%	80 - 120
			Total Silicon (Si)	2025/07/10		95	%	80 - 120
			Total Silver (Ag)	2025/07/10		97	%	80 - 120
			Total Strontium (Sr)	2025/07/10		NC	%	80 - 120
			Total Tellurium (Te)	2025/07/10		101	%	80 - 120
			Total Thallium (Tl)	2025/07/10		98	%	80 - 120
			Total Thorium (Th)	2025/07/10		99	%	80 - 120
			Total Tin (Sn)	2025/07/10		101	%	80 - 120
			Total Titanium (Ti)	2025/07/10		100	%	80 - 120
			Total Uranium (U)	2025/07/10		106	%	80 - 120
			Total Vanadium (V)	2025/07/10		98	%	80 - 120
			Total Zinc (Zn)	2025/07/10		NC	%	80 - 120
			Total Zirconium (Zr)	2025/07/10		101	%	80 - 120
C014808	AA1	Spiked Blank	Total Aluminum (Al)	2025/07/10		98	%	80 - 120
			Total Antimony (Sb)	2025/07/10		102	%	80 - 120
			Total Arsenic (As)	2025/07/10		104	%	80 - 120
			Total Barium (Ba)	2025/07/10		101	%	80 - 120
			Total Beryllium (Be)	2025/07/10		102	%	80 - 120
			Total Bismuth (Bi)	2025/07/10		100	%	80 - 120
			Total Boron (B)	2025/07/10		101	%	80 - 120
			Total Cadmium (Cd)	2025/07/10		101	%	80 - 120
			Total Cesium (Cs)	2025/07/10		99	%	80 - 120
			Total Chromium (Cr)	2025/07/10		98	%	80 - 120
			Total Cobalt (Co)	2025/07/10		94	%	80 - 120
			Total Copper (Cu)	2025/07/10		95	%	80 - 120
			Total Iron (Fe)	2025/07/10		105	%	80 - 120
			Total Lead (Pb)	2025/07/10		100	%	80 - 120
			Total Lithium (Li)	2025/07/10		98	%	80 - 120
			Total Manganese (Mn)	2025/07/10		97	%	80 - 120
			Total Molybdenum (Mo)	2025/07/10		101	%	80 - 120
			Total Nickel (Ni)	2025/07/10		100	%	80 - 120
			Total Phosphorus (P)	2025/07/10		102	%	80 - 120
			Total Rubidium (Rb)	2025/07/10		98	%	80 - 120
			Total Selenium (Se)	2025/07/10		99	%	80 - 120
			Total Silicon (Si)	2025/07/10		99	%	80 - 120
			Total Silver (Ag)	2025/07/10		98	%	80 - 120
			Total Strontium (Sr)	2025/07/10		100	%	80 - 120
			Total Tellurium (Te)	2025/07/10		101	%	80 - 120
			Total Thallium (Tl)	2025/07/10		99	%	80 - 120
			Total Thorium (Th)	2025/07/10		100	%	80 - 120
			Total Tin (Sn)	2025/07/10		102	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Titanium (Ti)	2025/07/10		100	%	80 - 120
			Total Uranium (U)	2025/07/10		99	%	80 - 120
			Total Vanadium (V)	2025/07/10		98	%	80 - 120
			Total Zinc (Zn)	2025/07/10		104	%	80 - 120
			Total Zirconium (Zr)	2025/07/10		101	%	80 - 120
C014808	AA1	Method Blank	Total Aluminum (Al)	2025/07/10	ND, RDL=0.50		ug/L	
			Total Antimony (Sb)	2025/07/10	ND, RDL=0.020		ug/L	
			Total Arsenic (As)	2025/07/10	ND, RDL=0.020		ug/L	
			Total Barium (Ba)	2025/07/10	ND, RDL=0.020		ug/L	
			Total Beryllium (Be)	2025/07/10	ND, RDL=0.010		ug/L	
			Total Bismuth (Bi)	2025/07/10	ND, RDL=0.0050		ug/L	
			Total Boron (B)	2025/07/10	ND, RDL=10		ug/L	
			Total Cadmium (Cd)	2025/07/10	ND, RDL=0.0050		ug/L	
			Total Cesium (Cs)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Chromium (Cr)	2025/07/10	ND, RDL=0.10		ug/L	
			Total Cobalt (Co)	2025/07/10	ND, RDL=0.0050		ug/L	
			Total Copper (Cu)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Iron (Fe)	2025/07/10	ND, RDL=1.0		ug/L	
			Total Lead (Pb)	2025/07/10	ND, RDL=0.0050		ug/L	
			Total Lithium (Li)	2025/07/10	ND, RDL=0.50		ug/L	
			Total Manganese (Mn)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Molybdenum (Mo)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Nickel (Ni)	2025/07/10	ND, RDL=0.020		ug/L	
			Total Phosphorus (P)	2025/07/10	ND, RDL=2.0		ug/L	
			Total Rubidium (Rb)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Selenium (Se)	2025/07/10	ND, RDL=0.040		ug/L	
			Total Silicon (Si)	2025/07/10	ND, RDL=50		ug/L	
			Total Silver (Ag)	2025/07/10	ND, RDL=0.0050		ug/L	
			Total Strontium (Sr)	2025/07/10	ND, RDL=0.050		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Tellurium (Te)	2025/07/10	ND, RDL=0.020		ug/L	
			Total Thallium (Tl)	2025/07/10	ND, RDL=0.0020		ug/L	
			Total Thorium (Th)	2025/07/10	ND, RDL=0.050		ug/L	
			Total Tin (Sn)	2025/07/10	ND, RDL=0.20		ug/L	
			Total Titanium (Ti)	2025/07/10	ND, RDL=0.50		ug/L	
			Total Uranium (U)	2025/07/10	ND, RDL=0.0020		ug/L	
			Total Vanadium (V)	2025/07/10	ND, RDL=0.20		ug/L	
			Total Zinc (Zn)	2025/07/10	ND, RDL=0.10		ug/L	
			Total Zirconium (Zr)	2025/07/10	ND, RDL=0.10		ug/L	
C014808	AA1	RPD	Total Aluminum (Al)	2025/07/10	14		%	20
			Total Antimony (Sb)	2025/07/10	0.24		%	20
			Total Arsenic (As)	2025/07/10	2.7		%	20
			Total Barium (Ba)	2025/07/10	1.9		%	20
			Total Beryllium (Be)	2025/07/10	NC		%	20
			Total Bismuth (Bi)	2025/07/10	NC		%	20
			Total Boron (B)	2025/07/10	NC		%	20
			Total Cadmium (Cd)	2025/07/10	2.7		%	20
			Total Chromium (Cr)	2025/07/10	NC		%	20
			Total Cobalt (Co)	2025/07/10	NC		%	20
			Total Copper (Cu)	2025/07/10	3.8		%	20
			Total Iron (Fe)	2025/07/10	NC		%	20
			Total Lead (Pb)	2025/07/10	0.47		%	20
			Total Lithium (Li)	2025/07/10	0.22		%	20
			Total Manganese (Mn)	2025/07/10	16		%	20
			Total Molybdenum (Mo)	2025/07/10	8.7		%	20
			Total Nickel (Ni)	2025/07/10	0.27		%	20
			Total Phosphorus (P)	2025/07/10	NC		%	20
			Total Selenium (Se)	2025/07/10	0.77		%	20
			Total Silicon (Si)	2025/07/10	1.7		%	20
			Total Silver (Ag)	2025/07/10	0.066		%	20
			Total Strontium (Sr)	2025/07/10	0.74		%	20
			Total Thallium (Tl)	2025/07/10	13		%	20
			Total Tin (Sn)	2025/07/10	NC		%	20
			Total Titanium (Ti)	2025/07/10	NC		%	20
			Total Uranium (U)	2025/07/10	1.3		%	20
			Total Vanadium (V)	2025/07/10	NC		%	20
			Total Zinc (Zn)	2025/07/10	1.3		%	20
			Total Zirconium (Zr)	2025/07/10	NC		%	20
C014808	AA1	RPD [DOO546-05]	Total Aluminum (Al)	2025/07/10	2.4		%	20
			Total Antimony (Sb)	2025/07/10	NC		%	20
			Total Arsenic (As)	2025/07/10	NC		%	20
			Total Barium (Ba)	2025/07/10	NC		%	20
			Total Beryllium (Be)	2025/07/10	NC		%	20
			Total Bismuth (Bi)	2025/07/10	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Boron (B)	2025/07/10	NC		%	20
			Total Cadmium (Cd)	2025/07/10	NC		%	20
			Total Cesium (Cs)	2025/07/10	NC		%	20
			Total Chromium (Cr)	2025/07/10	7.0		%	20
			Total Cobalt (Co)	2025/07/10	12		%	20
			Total Copper (Cu)	2025/07/10	NC		%	20
			Total Iron (Fe)	2025/07/10	3.6		%	20
			Total Lead (Pb)	2025/07/10	NC		%	20
			Total Lithium (Li)	2025/07/10	NC		%	20
			Total Manganese (Mn)	2025/07/10	NC		%	20
			Total Molybdenum (Mo)	2025/07/10	NC		%	20
			Total Nickel (Ni)	2025/07/10	10		%	20
			Total Phosphorus (P)	2025/07/10	19		%	20
			Total Rubidium (Rb)	2025/07/10	NC		%	20
			Total Selenium (Se)	2025/07/10	NC		%	20
			Total Silicon (Si)	2025/07/10	NC		%	20
			Total Silver (Ag)	2025/07/10	NC		%	20
			Total Strontium (Sr)	2025/07/10	NC		%	20
			Total Tellurium (Te)	2025/07/10	NC		%	20
			Total Thallium (Tl)	2025/07/10	NC		%	20
			Total Thorium (Th)	2025/07/10	NC		%	20
			Total Tin (Sn)	2025/07/10	NC		%	20
			Total Titanium (Ti)	2025/07/10	NC		%	20
			Total Uranium (U)	2025/07/10	NC		%	20
			Total Vanadium (V)	2025/07/10	NC		%	20
			Total Zinc (Zn)	2025/07/10	NC		%	20
			Total Zirconium (Zr)	2025/07/10	NC		%	20
C014957	C2L	Matrix Spike	Nitrate plus Nitrite (N)	2025/07/10		NC	%	80 - 120
C014957	C2L	Spiked Blank	Nitrate plus Nitrite (N)	2025/07/10		110	%	80 - 120
C014957	C2L	Method Blank	Nitrate plus Nitrite (N)	2025/07/10	ND, RDL=0.020		mg/L	
C014957	C2L	RPD	Nitrate plus Nitrite (N)	2025/07/10	0.41		%	25
C014959	C2L	Matrix Spike	Nitrite (N)	2025/07/10		NC	%	80 - 120
C014959	C2L	Spiked Blank	Nitrite (N)	2025/07/10		104	%	80 - 120
C014959	C2L	Method Blank	Nitrite (N)	2025/07/10	ND, RDL=0.0050		mg/L	
C014959	C2L	RPD	Nitrite (N)	2025/07/10	0.24		%	20
C014988	IC4	Matrix Spike	Total Mercury (Hg)	2025/07/10		101	%	80 - 120
C014988	IC4	Spiked Blank	Total Mercury (Hg)	2025/07/10		101	%	80 - 120
C014988	IC4	Method Blank	Total Mercury (Hg)	2025/07/10	ND, RDL=0.0019		ug/L	
C014988	IC4	RPD	Total Mercury (Hg)	2025/07/10	15		%	20
C014989	TSO	Matrix Spike [DOO547-08]	Total Nitrogen (N)	2025/07/11		103	%	80 - 120
C014989	TSO	Spiked Blank	Total Nitrogen (N)	2025/07/11		108	%	80 - 120
C014989	TSO	Method Blank	Total Nitrogen (N)	2025/07/11	ND, RDL=0.020		mg/L	
C014989	TSO	RPD [DOO547-08]	Total Nitrogen (N)	2025/07/11	NC		%	20
C015077	IC4	Matrix Spike	Total Mercury (Hg)	2025/07/10		55 (1)	%	80 - 120
C015077	IC4	Spiked Blank	Total Mercury (Hg)	2025/07/10		105	%	80 - 120
C015077	IC4	Method Blank	Total Mercury (Hg)	2025/07/10	ND, RDL=0.0019		ug/L	
C015077	IC4	RPD	Total Mercury (Hg)	2025/07/10	13		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C015104	BTM	Matrix Spike [DOO547-01]	Dissolved Organic Carbon (C)	2025/07/10		109	%	80 - 120
C015104	BTM	Spiked Blank	Dissolved Organic Carbon (C)	2025/07/10		105	%	80 - 120
C015104	BTM	Method Blank	Dissolved Organic Carbon (C)	2025/07/10	ND, RDL=0.50		mg/L	
C015104	BTM	RPD [DOO547-01]	Dissolved Organic Carbon (C)	2025/07/10	NC		%	20
C015108	BTM	Matrix Spike [DOO547-08]	Total Organic Carbon (C)	2025/07/11		109	%	80 - 120
C015108	BTM	Spiked Blank	Total Organic Carbon (C)	2025/07/11		108	%	80 - 120
C015108	BTM	Method Blank	Total Organic Carbon (C)	2025/07/10	ND, RDL=0.50		mg/L	
C015108	BTM	RPD [DOO547-08]	Total Organic Carbon (C)	2025/07/11	NC		%	20
C015841	CBK	Matrix Spike [DOO541-08]	Total Phosphorus (P)	2025/07/12		99	%	N/A
C015841	CBK	Spiked Blank	Total Phosphorus (P)	2025/07/12		111	%	80 - 120
C015841	CBK	Method Blank	Total Phosphorus (P)	2025/07/12	ND, RDL=0.0010		mg/L	
C015841	CBK	RPD [DOO541-08]	Total Phosphorus (P)	2025/07/12	10		%	20
C015904	LSH	Matrix Spike	Methyl Sulfone (sur.)	2025/07/11		95	%	50 - 140
			Ethylene Glycol	2025/07/11		90	%	60 - 140
			Diethylene Glycol	2025/07/11		110	%	60 - 140
			Triethylene Glycol	2025/07/11		101	%	60 - 140
			Propylene Glycol	2025/07/11		95	%	60 - 140
C015904	LSH	Spiked Blank	Methyl Sulfone (sur.)	2025/07/11		94	%	50 - 140
			Ethylene Glycol	2025/07/11		89	%	70 - 130
			Diethylene Glycol	2025/07/11		110	%	70 - 130
			Triethylene Glycol	2025/07/11		100	%	70 - 130
			Propylene Glycol	2025/07/11		95	%	70 - 130
C015904	LSH	Method Blank	Methyl Sulfone (sur.)	2025/07/11		94	%	50 - 140
			Ethylene Glycol	2025/07/11	ND, RDL=3.0		mg/L	
			Diethylene Glycol	2025/07/11	ND, RDL=5.0		mg/L	
			Triethylene Glycol	2025/07/11	ND, RDL=5.0		mg/L	
			Propylene Glycol	2025/07/11	ND, RDL=5.0		mg/L	
C015904	LSH	RPD	Ethylene Glycol	2025/07/11	NC		%	30
			Diethylene Glycol	2025/07/11	NC		%	30
			Triethylene Glycol	2025/07/11	NC		%	30
			Propylene Glycol	2025/07/11	NC		%	30
C016028	KA5	Matrix Spike	Total Dissolved Solids	2025/07/14		102	%	80 - 120
C016028	KA5	Spiked Blank	Total Dissolved Solids	2025/07/14		92	%	80 - 120
C016028	KA5	Method Blank	Total Dissolved Solids	2025/07/14	ND, RDL=10		mg/L	
C016028	KA5	RPD	Total Dissolved Solids	2025/07/14	9.8		%	20
C016030	KA5	Matrix Spike [DOO547-02]	Total Dissolved Solids	2025/07/14		104	%	80 - 120
C016030	KA5	Spiked Blank	Total Dissolved Solids	2025/07/14		96	%	80 - 120
C016030	KA5	Method Blank	Total Dissolved Solids	2025/07/14	ND, RDL=10		mg/L	
C016030	KA5	RPD [DOO546-02]	Total Dissolved Solids	2025/07/14	NC		%	20
C016033	NGU	Matrix Spike	1,4-Difluorobenzene (sur.)	2025/07/11		101	%	50 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			4-Bromofluorobenzene (sur.)	2025/07/11		98	%	50 - 140
			D4-1,2-Dichloroethane (sur.)	2025/07/11		97	%	50 - 140
			1,1,1,2-tetrachloroethane	2025/07/11		100	%	70 - 130
			1,1,1-trichloroethane	2025/07/11		88	%	70 - 130
			1,1,2,2-tetrachloroethane	2025/07/11		93	%	70 - 130
			1,1,2Trichloro-1,2,2Trifluoroethane	2025/07/11		89	%	N/A
			1,1,2-trichloroethane	2025/07/11		87	%	70 - 130
			1,1-dichloroethane	2025/07/11		90	%	70 - 130
			1,1-dichloroethene	2025/07/11		97	%	70 - 130
			1,2,3-trichlorobenzene	2025/07/11		102	%	N/A
			1,2,4-trichlorobenzene	2025/07/11		103	%	N/A
			1,2-dibromoethane	2025/07/11		91	%	70 - 130
			1,2-dichlorobenzene	2025/07/11		103	%	70 - 130
			1,2-dichloroethane	2025/07/11		93	%	70 - 130
			1,2-dichloropropane	2025/07/11		93	%	70 - 130
			1,3,5-trimethylbenzene	2025/07/11		109	%	N/A
			1,3-Butadiene	2025/07/11		55	%	N/A
			1,3-dichlorobenzene	2025/07/11		104	%	70 - 130
			1,3-dichloropropane	2025/07/11		91	%	30 - 130
			1,4-dichlorobenzene	2025/07/11		98	%	70 - 130
			Benzene	2025/07/11		95	%	70 - 130
			Bromobenzene	2025/07/11		99	%	N/A
			Bromodichloromethane	2025/07/11		92	%	70 - 130
			Bromoform	2025/07/11		106	%	70 - 130
			Bromomethane	2025/07/11		95	%	60 - 140
			Carbon tetrachloride	2025/07/11		93	%	70 - 130
			Chlorobenzene	2025/07/11		93	%	70 - 130
			Dibromochloromethane	2025/07/11		102	%	70 - 130
			Chloroethane	2025/07/11		69	%	60 - 140
			Chloroform	2025/07/11		89	%	70 - 130
			Chloromethane	2025/07/11		98	%	60 - 140
			cis-1,2-dichloroethene	2025/07/11		96	%	70 - 130
			cis-1,3-dichloropropene	2025/07/11		96	%	70 - 130
			Dichlorodifluoromethane	2025/07/11		101	%	N/A
			Dichloromethane	2025/07/11		84	%	70 - 130
			Ethylbenzene	2025/07/11		91	%	70 - 130
			Hexachlorobutadiene	2025/07/11		107	%	N/A
			Isopropylbenzene	2025/07/11		102	%	N/A
			Methyl-tert-butylether (MTBE)	2025/07/11		83	%	70 - 130
			Tetrachloroethene	2025/07/11		94	%	70 - 130
			Toluene	2025/07/11		85	%	70 - 130
			trans-1,2-dichloroethene	2025/07/11		99	%	70 - 130
			trans-1,3-dichloropropene	2025/07/11		95	%	70 - 130
			Trichloroethene	2025/07/11		95	%	70 - 130
			Trichlorofluoromethane	2025/07/11		93	%	60 - 140
			Vinyl chloride	2025/07/11		94	%	60 - 140
			m & p-Xylene	2025/07/11		93	%	70 - 130
			o-Xylene	2025/07/11		91	%	70 - 130
C016033	NGU	Spiked Blank	1,4-Difluorobenzene (sur.)	2025/07/11		101	%	50 - 140
			4-Bromofluorobenzene (sur.)	2025/07/11		99	%	50 - 140
			D4-1,2-Dichloroethane (sur.)	2025/07/11		99	%	50 - 140
			VH C6-C10	2025/07/11		92	%	70 - 130
			1,1,1,2-tetrachloroethane	2025/07/11		100	%	60 - 130

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,1-trichloroethane	2025/07/11		90	%	60 - 130
			1,1,2,2-tetrachloroethane	2025/07/11		92	%	60 - 130
			1,1,2Trichloro-1,2,2Trifluoroethane	2025/07/11		94	%	60 - 130
			1,1,2-trichloroethane	2025/07/11		88	%	60 - 130
			1,1-dichloroethane	2025/07/11		93	%	60 - 130
			1,1-dichloroethene	2025/07/11		103	%	60 - 130
			1,2,3-trichlorobenzene	2025/07/11		99	%	60 - 130
			1,2,4-trichlorobenzene	2025/07/11		100	%	60 - 130
			1,2-dibromoethane	2025/07/11		91	%	60 - 130
			1,2-dichlorobenzene	2025/07/11		102	%	60 - 130
			1,2-dichloroethane	2025/07/11		96	%	60 - 130
			1,2-dichloropropane	2025/07/11		95	%	60 - 130
			1,3,5-trimethylbenzene	2025/07/11		110	%	60 - 130
			1,3-Butadiene	2025/07/11		72	%	50 - 140
			1,3-dichlorobenzene	2025/07/11		104	%	60 - 130
			1,3-dichloropropane	2025/07/11		92	%	60 - 130
			1,4-dichlorobenzene	2025/07/11		97	%	60 - 130
			Benzene	2025/07/11		98	%	60 - 130
			Bromobenzene	2025/07/11		99	%	60 - 130
			Bromodichloromethane	2025/07/11		93	%	60 - 130
			Bromoform	2025/07/11		104	%	60 - 130
			Bromomethane	2025/07/11		101	%	50 - 140
			Carbon tetrachloride	2025/07/11		95	%	60 - 130
			Chlorobenzene	2025/07/11		95	%	60 - 130
			Dibromochloromethane	2025/07/11		102	%	60 - 130
			Chloroethane	2025/07/11		60	%	50 - 140
			Chloroform	2025/07/11		91	%	60 - 130
			Chloromethane	2025/07/11		108	%	50 - 140
			cis-1,2-dichloroethene	2025/07/11		99	%	60 - 130
			cis-1,3-dichloropropene	2025/07/11		95	%	50 - 140
			Dichlorodifluoromethane	2025/07/11		113	%	50 - 140
			Dichloromethane	2025/07/11		88	%	60 - 130
			Ethylbenzene	2025/07/11		93	%	60 - 130
			Hexachlorobutadiene	2025/07/11		104	%	60 - 130
			Isopropylbenzene	2025/07/11		102	%	60 - 130
			Methyl-tert-butylether (MTBE)	2025/07/11		84	%	60 - 130
			Styrene	2025/07/11		82	%	60 - 130
			Tetrachloroethene	2025/07/11		97	%	60 - 130
			Toluene	2025/07/11		87	%	60 - 130
			trans-1,2-dichloroethene	2025/07/11		104	%	60 - 130
			trans-1,3-dichloropropene	2025/07/11		93	%	50 - 140
			Trichloroethene	2025/07/11		98	%	60 - 130
			Trichlorofluoromethane	2025/07/11		98	%	60 - 130
			Vinyl chloride	2025/07/11		101	%	50 - 140
			m & p-Xylene	2025/07/11		94	%	60 - 130
			o-Xylene	2025/07/11		92	%	60 - 130
C016033	NGU	Method Blank	1,4-Difluorobenzene (sur.)	2025/07/11		101	%	50 - 140
			4-Bromofluorobenzene (sur.)	2025/07/11		93	%	50 - 140
			D4-1,2-Dichloroethane (sur.)	2025/07/11		95	%	50 - 140
			VH C6-C10	2025/07/11	ND, RDL=300		ug/L	
			1,1,1,2-tetrachloroethane	2025/07/11	ND, RDL=0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,1-trichloroethane	2025/07/11	ND, RDL=0.50		ug/L	
			1,1,2,2-tetrachloroethane	2025/07/11	ND, RDL=0.50		ug/L	
			1,1,2Trichloro-1,2,2Trifluoroethane	2025/07/11	ND, RDL=2.0		ug/L	
			1,1,2-trichloroethane	2025/07/11	ND, RDL=0.50		ug/L	
			1,1-dichloroethane	2025/07/11	ND, RDL=0.50		ug/L	
			1,1-dichloroethene	2025/07/11	ND, RDL=0.50		ug/L	
			1,2,3-trichlorobenzene	2025/07/11	ND, RDL=2.0		ug/L	
			1,2,4-trichlorobenzene	2025/07/11	ND, RDL=2.0		ug/L	
			1,2-dibromoethane	2025/07/11	ND, RDL=0.20		ug/L	
			1,2-dichlorobenzene	2025/07/11	ND, RDL=0.50		ug/L	
			1,2-dichloroethane	2025/07/11	ND, RDL=0.50		ug/L	
			1,2-dichloropropane	2025/07/11	ND, RDL=0.50		ug/L	
			1,3,5-trimethylbenzene	2025/07/11	ND, RDL=2.0		ug/L	
			1,3-Butadiene	2025/07/11	ND, RDL=0.50		ug/L	
			1,3-dichlorobenzene	2025/07/11	ND, RDL=0.50		ug/L	
			1,3-dichloropropane	2025/07/11	ND, RDL=1.0		ug/L	
			1,4-dichlorobenzene	2025/07/11	ND, RDL=0.50		ug/L	
			Benzene	2025/07/11	ND, RDL=0.40		ug/L	
			Bromobenzene	2025/07/11	ND, RDL=2.0		ug/L	
			Bromodichloromethane	2025/07/11	ND, RDL=1.0		ug/L	
			Bromoform	2025/07/11	ND, RDL=1.0		ug/L	
			Bromomethane	2025/07/11	ND, RDL=1.0		ug/L	
			Carbon tetrachloride	2025/07/11	ND, RDL=0.50		ug/L	
			Chlorobenzene	2025/07/11	ND, RDL=0.50		ug/L	
			Dibromochloromethane	2025/07/11	ND, RDL=1.0		ug/L	
			Chloroethane	2025/07/11	ND, RDL=1.0		ug/L	
			Chloroform	2025/07/11	ND, RDL=1.0		ug/L	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloromethane	2025/07/11	ND, RDL=1.0		ug/L	
			cis-1,2-dichloroethene	2025/07/11	ND, RDL=1.0		ug/L	
			cis-1,3-dichloropropene	2025/07/11	ND, RDL=1.0		ug/L	
			Dichlorodifluoromethane	2025/07/11	ND, RDL=2.0		ug/L	
			Dichloromethane	2025/07/11	ND, RDL=2.0		ug/L	
			Ethylbenzene	2025/07/11	ND, RDL=0.40		ug/L	
			Hexachlorobutadiene	2025/07/11	ND, RDL=0.50		ug/L	
			Isopropylbenzene	2025/07/11	ND, RDL=2.0		ug/L	
			Methyl-tert-butylether (MTBE)	2025/07/11	ND, RDL=4.0		ug/L	
			Styrene	2025/07/11	ND, RDL=0.50		ug/L	
			Tetrachloroethene	2025/07/11	ND, RDL=0.50		ug/L	
			Toluene	2025/07/11	ND, RDL=0.40		ug/L	
			trans-1,2-dichloroethene	2025/07/11	ND, RDL=1.0		ug/L	
			trans-1,3-dichloropropene	2025/07/11	ND, RDL=1.0		ug/L	
			Trichloroethene	2025/07/11	ND, RDL=0.50		ug/L	
			Trichlorofluoromethane	2025/07/11	ND, RDL=4.0		ug/L	
			Vinyl chloride	2025/07/11	ND, RDL=0.50		ug/L	
			m & p-Xylene	2025/07/11	ND, RDL=0.40		ug/L	
			o-Xylene	2025/07/11	ND, RDL=0.40		ug/L	
			Xylenes (Total)	2025/07/11	ND, RDL=0.40		ug/L	
C016033	NGU	RPD	Bromodichloromethane	2025/07/11	NC		%	30
			Bromoform	2025/07/11	NC		%	30
			Dibromochloromethane	2025/07/11	NC		%	30
			Chloroform	2025/07/11	0.63		%	30
C016113	AA1	Matrix Spike [DOO541-06]	Dissolved Aluminum (Al)	2025/07/11		91	%	80 - 120
			Dissolved Antimony (Sb)	2025/07/11		95	%	80 - 120
			Dissolved Arsenic (As)	2025/07/11		100	%	80 - 120
			Dissolved Barium (Ba)	2025/07/11		94	%	80 - 120
			Dissolved Beryllium (Be)	2025/07/11		98	%	80 - 120
			Dissolved Bismuth (Bi)	2025/07/11		96	%	80 - 120
			Dissolved Boron (B)	2025/07/11		97	%	80 - 120
			Dissolved Cadmium (Cd)	2025/07/11		98	%	80 - 120
			Dissolved Cesium (Cs)	2025/07/11		97	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2025/07/11		94	%	80 - 120
			Dissolved Cobalt (Co)	2025/07/11		91	%	80 - 120
			Dissolved Copper (Cu)	2025/07/11		89	%	80 - 120
			Dissolved Iron (Fe)	2025/07/11		97	%	80 - 120
			Dissolved Lead (Pb)	2025/07/11		95	%	80 - 120
			Dissolved Lithium (Li)	2025/07/11		94	%	80 - 120
			Dissolved Manganese (Mn)	2025/07/11		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/07/11		NC	%	80 - 120
			Dissolved Nickel (Ni)	2025/07/11		94	%	80 - 120
			Dissolved Phosphorus (P)	2025/07/11		94	%	80 - 120
			Dissolved Rubidium (Rb)	2025/07/11		89	%	80 - 120
			Dissolved Selenium (Se)	2025/07/11		99	%	80 - 120
			Dissolved Silicon (Si)	2025/07/11		NC	%	80 - 120
			Dissolved Silver (Ag)	2025/07/11		96	%	80 - 120
			Dissolved Strontium (Sr)	2025/07/11		96	%	80 - 120
			Dissolved Tellurium (Te)	2025/07/11		103	%	80 - 120
			Dissolved Thallium (Tl)	2025/07/11		95	%	80 - 120
			Dissolved Thorium (Th)	2025/07/11		97	%	80 - 120
			Dissolved Tin (Sn)	2025/07/11		95	%	80 - 120
			Dissolved Titanium (Ti)	2025/07/11		98	%	80 - 120
			Dissolved Uranium (U)	2025/07/11		107	%	80 - 120
			Dissolved Vanadium (V)	2025/07/11		96	%	80 - 120
			Dissolved Zinc (Zn)	2025/07/11		97	%	80 - 120
			Dissolved Zirconium (Zr)	2025/07/11		101	%	80 - 120
C016113	AA1	Spiked Blank	Dissolved Aluminum (Al)	2025/07/11		95	%	80 - 120
			Dissolved Antimony (Sb)	2025/07/11		99	%	80 - 120
			Dissolved Arsenic (As)	2025/07/11		101	%	80 - 120
			Dissolved Barium (Ba)	2025/07/11		98	%	80 - 120
			Dissolved Beryllium (Be)	2025/07/11		102	%	80 - 120
			Dissolved Bismuth (Bi)	2025/07/11		97	%	80 - 120
			Dissolved Boron (B)	2025/07/11		102	%	80 - 120
			Dissolved Cadmium (Cd)	2025/07/11		99	%	80 - 120
			Dissolved Cesium (Cs)	2025/07/11		100	%	80 - 120
			Dissolved Chromium (Cr)	2025/07/11		98	%	80 - 120
			Dissolved Cobalt (Co)	2025/07/11		95	%	80 - 120
			Dissolved Copper (Cu)	2025/07/11		93	%	80 - 120
			Dissolved Iron (Fe)	2025/07/11		99	%	80 - 120
			Dissolved Lead (Pb)	2025/07/11		97	%	80 - 120
			Dissolved Lithium (Li)	2025/07/11		100	%	80 - 120
			Dissolved Manganese (Mn)	2025/07/11		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/07/11		98	%	80 - 120
			Dissolved Nickel (Ni)	2025/07/11		98	%	80 - 120
			Dissolved Phosphorus (P)	2025/07/11		94	%	80 - 120
			Dissolved Rubidium (Rb)	2025/07/11		97	%	80 - 120
			Dissolved Selenium (Se)	2025/07/11		100	%	80 - 120
			Dissolved Silicon (Si)	2025/07/11		95	%	80 - 120
			Dissolved Silver (Ag)	2025/07/11		97	%	80 - 120
			Dissolved Strontium (Sr)	2025/07/11		97	%	80 - 120
			Dissolved Tellurium (Te)	2025/07/11		96	%	80 - 120
			Dissolved Thallium (Tl)	2025/07/11		96	%	80 - 120
			Dissolved Thorium (Th)	2025/07/11		99	%	80 - 120
			Dissolved Tin (Sn)	2025/07/11		101	%	80 - 120
			Dissolved Titanium (Ti)	2025/07/11		100	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Uranium (U)	2025/07/11		99	%	80 - 120
			Dissolved Vanadium (V)	2025/07/11		98	%	80 - 120
			Dissolved Zinc (Zn)	2025/07/11		102	%	80 - 120
			Dissolved Zirconium (Zr)	2025/07/11		96	%	80 - 120
C016113	AA1	Method Blank	Dissolved Aluminum (Al)	2025/07/11	ND, RDL=0.50		ug/L	
			Dissolved Antimony (Sb)	2025/07/11	ND, RDL=0.020		ug/L	
			Dissolved Arsenic (As)	2025/07/11	ND, RDL=0.020		ug/L	
			Dissolved Barium (Ba)	2025/07/11	ND, RDL=0.020		ug/L	
			Dissolved Beryllium (Be)	2025/07/11	ND, RDL=0.010		ug/L	
			Dissolved Bismuth (Bi)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Boron (B)	2025/07/11	ND, RDL=10		ug/L	
			Dissolved Cadmium (Cd)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Cesium (Cs)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Chromium (Cr)	2025/07/11	ND, RDL=0.10		ug/L	
			Dissolved Cobalt (Co)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Copper (Cu)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Iron (Fe)	2025/07/11	ND, RDL=1.0		ug/L	
			Dissolved Lead (Pb)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Lithium (Li)	2025/07/11	ND, RDL=0.50		ug/L	
			Dissolved Manganese (Mn)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Molybdenum (Mo)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Nickel (Ni)	2025/07/11	ND, RDL=0.020		ug/L	
			Dissolved Phosphorus (P)	2025/07/11	ND, RDL=2.0		ug/L	
			Dissolved Rubidium (Rb)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Selenium (Se)	2025/07/11	ND, RDL=0.040		ug/L	
			Dissolved Silicon (Si)	2025/07/11	ND, RDL=50		ug/L	
			Dissolved Silver (Ag)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Strontium (Sr)	2025/07/11	ND, RDL=0.050		ug/L	
			Dissolved Tellurium (Te)	2025/07/11	ND, RDL=0.020		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Thallium (Tl)	2025/07/11	ND, RDL=0.0020		ug/L	
			Dissolved Thorium (Th)	2025/07/11	ND, RDL=0.0050		ug/L	
			Dissolved Tin (Sn)	2025/07/11	ND, RDL=0.20		ug/L	
			Dissolved Titanium (Ti)	2025/07/11	ND, RDL=0.50		ug/L	
			Dissolved Uranium (U)	2025/07/11	ND, RDL=0.0020		ug/L	
			Dissolved Vanadium (V)	2025/07/11	ND, RDL=0.20		ug/L	
			Dissolved Zinc (Zn)	2025/07/11	ND, RDL=0.10		ug/L	
			Dissolved Zirconium (Zr)	2025/07/11	ND, RDL=0.10		ug/L	
C016113	AA1	RPD [DOO541-06]	Dissolved Aluminum (Al)	2025/07/11	3.4		%	20
			Dissolved Antimony (Sb)	2025/07/11	2.8		%	20
			Dissolved Arsenic (As)	2025/07/11	2.2		%	20
			Dissolved Barium (Ba)	2025/07/11	0.38		%	20
			Dissolved Beryllium (Be)	2025/07/11	NC		%	20
			Dissolved Bismuth (Bi)	2025/07/11	NC		%	20
			Dissolved Boron (B)	2025/07/11	2.8		%	20
			Dissolved Cadmium (Cd)	2025/07/11	1.6		%	20
			Dissolved Cesium (Cs)	2025/07/11	NC		%	20
			Dissolved Chromium (Cr)	2025/07/11	NC		%	20
			Dissolved Cobalt (Co)	2025/07/11	3.1		%	20
			Dissolved Copper (Cu)	2025/07/11	2.2		%	20
			Dissolved Iron (Fe)	2025/07/11	1.1		%	20
			Dissolved Lead (Pb)	2025/07/11	NC		%	20
			Dissolved Lithium (Li)	2025/07/11	4.1		%	20
			Dissolved Manganese (Mn)	2025/07/11	3.3		%	20
			Dissolved Molybdenum (Mo)	2025/07/11	1.9		%	20
			Dissolved Nickel (Ni)	2025/07/11	2.0		%	20
			Dissolved Phosphorus (P)	2025/07/11	NC		%	20
			Dissolved Rubidium (Rb)	2025/07/11	5.9		%	20
			Dissolved Selenium (Se)	2025/07/11	3.5		%	20
			Dissolved Silicon (Si)	2025/07/11	2.7		%	20
			Dissolved Silver (Ag)	2025/07/11	NC		%	20
			Dissolved Strontium (Sr)	2025/07/11	0.49		%	20
			Dissolved Tellurium (Te)	2025/07/11	NC		%	20
			Dissolved Thallium (Tl)	2025/07/11	0.57		%	20
			Dissolved Thorium (Th)	2025/07/11	NC		%	20
			Dissolved Tin (Sn)	2025/07/11	NC		%	20
			Dissolved Titanium (Ti)	2025/07/11	NC		%	20
			Dissolved Uranium (U)	2025/07/11	0.38		%	20
			Dissolved Vanadium (V)	2025/07/11	NC		%	20
			Dissolved Zinc (Zn)	2025/07/11	0.31		%	20
			Dissolved Zirconium (Zr)	2025/07/11	NC		%	20
C016127	BB3	Matrix Spike [DOO546-12]	Total Hex. Chromium (Cr 6+)	2025/07/11		89	%	80 - 120
C016127	BB3	Spiked Blank	Total Hex. Chromium (Cr 6+)	2025/07/11		106	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C016127	BB3	Method Blank	Total Hex. Chromium (Cr 6+)	2025/07/11	ND, RDL=0.00099		mg/L	
C016127	BB3	RPD [DOO546-12]	Total Hex. Chromium (Cr 6+)	2025/07/11	NC		%	20
C016150	IC4	Matrix Spike [DOO541-10]	Dissolved Mercury (Hg)	2025/07/11		102	%	80 - 120
C016150	IC4	Spiked Blank	Dissolved Mercury (Hg)	2025/07/11		98	%	80 - 120
C016150	IC4	Method Blank	Dissolved Mercury (Hg)	2025/07/11	ND, RDL=0.0019		ug/L	
C016150	IC4	RPD [DOO541-10]	Dissolved Mercury (Hg)	2025/07/11	NC		%	20
C016335	JYU	Matrix Spike [DOO542-16]	Phenols	2025/07/11		106	%	80 - 120
C016335	JYU	Spiked Blank	Phenols	2025/07/11		103	%	80 - 120
C016335	JYU	Method Blank	Phenols	2025/07/11	ND, RDL=0.0015		mg/L	
C016335	JYU	RPD [DOO542-16]	Phenols	2025/07/11	NC		%	20
C017195	MYO	Matrix Spike [DOO543-05]	Total Aluminum (Al)	2025/07/15		106	%	80 - 120
			Total Antimony (Sb)	2025/07/15		108	%	80 - 120
			Total Arsenic (As)	2025/07/15		108	%	80 - 120
			Total Barium (Ba)	2025/07/15		106	%	80 - 120
			Total Beryllium (Be)	2025/07/15		106	%	80 - 120
			Total Bismuth (Bi)	2025/07/15		102	%	80 - 120
			Total Boron (B)	2025/07/15		106	%	80 - 120
			Total Cadmium (Cd)	2025/07/15		105	%	80 - 120
			Total Cesium (Cs)	2025/07/15		96	%	80 - 120
			Total Chromium (Cr)	2025/07/15		103	%	80 - 120
			Total Cobalt (Co)	2025/07/15		100	%	80 - 120
			Total Copper (Cu)	2025/07/15		101	%	80 - 120
			Total Iron (Fe)	2025/07/15		104	%	80 - 120
			Total Lead (Pb)	2025/07/15		104	%	80 - 120
			Total Lithium (Li)	2025/07/15		101	%	80 - 120
			Total Manganese (Mn)	2025/07/15		102	%	80 - 120
			Total Molybdenum (Mo)	2025/07/15		106	%	80 - 120
			Total Nickel (Ni)	2025/07/15		102	%	80 - 120
			Total Phosphorus (P)	2025/07/15		104	%	80 - 120
			Total Rubidium (Rb)	2025/07/15		106	%	80 - 120
			Total Selenium (Se)	2025/07/15		105	%	80 - 120
			Total Silicon (Si)	2025/07/15		105	%	80 - 120
			Total Silver (Ag)	2025/07/15		104	%	80 - 120
			Total Strontium (Sr)	2025/07/15		108	%	80 - 120
			Total Tellurium (Te)	2025/07/15		108	%	80 - 120
			Total Thallium (Tl)	2025/07/15		103	%	80 - 120
			Total Thorium (Th)	2025/07/15		104	%	80 - 120
			Total Tin (Sn)	2025/07/15		104	%	80 - 120
			Total Titanium (Ti)	2025/07/15		106	%	80 - 120
			Total Uranium (U)	2025/07/15		104	%	80 - 120
			Total Vanadium (V)	2025/07/15		104	%	80 - 120
			Total Zinc (Zn)	2025/07/15		105	%	80 - 120
			Total Zirconium (Zr)	2025/07/15		108	%	80 - 120
C017195	MYO	Spiked Blank	Total Aluminum (Al)	2025/07/15		106	%	80 - 120
			Total Antimony (Sb)	2025/07/15		109	%	80 - 120
			Total Arsenic (As)	2025/07/15		106	%	80 - 120
			Total Barium (Ba)	2025/07/15		104	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2025/07/15		102	%	80 - 120
			Total Bismuth (Bi)	2025/07/15		102	%	80 - 120
			Total Boron (B)	2025/07/15		103	%	80 - 120
			Total Cadmium (Cd)	2025/07/15		103	%	80 - 120
			Total Cesium (Cs)	2025/07/15		90	%	80 - 120
			Total Chromium (Cr)	2025/07/15		104	%	80 - 120
			Total Cobalt (Co)	2025/07/15		100	%	80 - 120
			Total Copper (Cu)	2025/07/15		101	%	80 - 120
			Total Iron (Fe)	2025/07/15		103	%	80 - 120
			Total Lead (Pb)	2025/07/15		104	%	80 - 120
			Total Lithium (Li)	2025/07/15		98	%	80 - 120
			Total Manganese (Mn)	2025/07/15		102	%	80 - 120
			Total Molybdenum (Mo)	2025/07/15		106	%	80 - 120
			Total Nickel (Ni)	2025/07/15		102	%	80 - 120
			Total Phosphorus (P)	2025/07/15		103	%	80 - 120
			Total Rubidium (Rb)	2025/07/15		104	%	80 - 120
			Total Selenium (Se)	2025/07/15		105	%	80 - 120
			Total Silicon (Si)	2025/07/15		106	%	80 - 120
			Total Silver (Ag)	2025/07/15		103	%	80 - 120
			Total Strontium (Sr)	2025/07/15		104	%	80 - 120
			Total Tellurium (Te)	2025/07/15		106	%	80 - 120
			Total Thallium (Tl)	2025/07/15		103	%	80 - 120
			Total Thorium (Th)	2025/07/15		102	%	80 - 120
			Total Tin (Sn)	2025/07/15		103	%	80 - 120
			Total Titanium (Ti)	2025/07/15		106	%	80 - 120
			Total Uranium (U)	2025/07/15		104	%	80 - 120
			Total Vanadium (V)	2025/07/15		103	%	80 - 120
			Total Zinc (Zn)	2025/07/15		105	%	80 - 120
			Total Zirconium (Zr)	2025/07/15		103	%	80 - 120
C017195	MYO	Method Blank	Total Aluminum (Al)	2025/07/15	ND, RDL=3.0		ug/L	
			Total Antimony (Sb)	2025/07/15	ND, RDL=0.020		ug/L	
			Total Arsenic (As)	2025/07/15	ND, RDL=0.020		ug/L	
			Total Barium (Ba)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Beryllium (Be)	2025/07/15	ND, RDL=0.010		ug/L	
			Total Bismuth (Bi)	2025/07/15	ND, RDL=0.010		ug/L	
			Total Boron (B)	2025/07/15	ND, RDL=10		ug/L	
			Total Cadmium (Cd)	2025/07/15	ND, RDL=0.0050		ug/L	
			Total Cesium (Cs)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Chromium (Cr)	2025/07/15	ND, RDL=0.10		ug/L	
			Total Cobalt (Co)	2025/07/15	ND, RDL=0.010		ug/L	
			Total Copper (Cu)	2025/07/15	ND, RDL=0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2025/07/15	ND, RDL=5.0		ug/L	
			Total Lead (Pb)	2025/07/15	ND, RDL=0.020		ug/L	
			Total Lithium (Li)	2025/07/15	ND, RDL=0.50		ug/L	
			Total Manganese (Mn)	2025/07/15	ND, RDL=0.10		ug/L	
			Total Molybdenum (Mo)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Nickel (Ni)	2025/07/15	ND, RDL=0.10		ug/L	
			Total Phosphorus (P)	2025/07/15	ND, RDL=5.0		ug/L	
			Total Rubidium (Rb)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Selenium (Se)	2025/07/15	ND, RDL=0.040		ug/L	
			Total Silicon (Si)	2025/07/15	ND, RDL=50		ug/L	
			Total Silver (Ag)	2025/07/15	ND, RDL=0.010		ug/L	
			Total Strontium (Sr)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Tellurium (Te)	2025/07/15	ND, RDL=0.020		ug/L	
			Total Thallium (Tl)	2025/07/15	ND, RDL=0.0020		ug/L	
			Total Thorium (Th)	2025/07/15	ND, RDL=0.050		ug/L	
			Total Tin (Sn)	2025/07/15	ND, RDL=0.20		ug/L	
			Total Titanium (Ti)	2025/07/15	ND, RDL=2.0		ug/L	
			Total Uranium (U)	2025/07/15	ND, RDL=0.0050		ug/L	
			Total Vanadium (V)	2025/07/15	ND, RDL=0.20		ug/L	
			Total Zinc (Zn)	2025/07/15	ND, RDL=1.0		ug/L	
			Total Zirconium (Zr)	2025/07/15	ND, RDL=0.10		ug/L	
C017195	MYO	RPD [DOO543-05]	Total Aluminum (Al)	2025/07/15	28 (1)		%	20
			Total Antimony (Sb)	2025/07/15	19		%	20
			Total Arsenic (As)	2025/07/15	4.7		%	20
			Total Barium (Ba)	2025/07/15	3.2		%	20
			Total Beryllium (Be)	2025/07/15	NC		%	20
			Total Bismuth (Bi)	2025/07/15	NC		%	20
			Total Boron (B)	2025/07/15	NC		%	20
			Total Cadmium (Cd)	2025/07/15	0		%	20
			Total Cesium (Cs)	2025/07/15	NC		%	20
			Total Chromium (Cr)	2025/07/15	NC		%	20
			Total Cobalt (Co)	2025/07/15	NC		%	20
			Total Copper (Cu)	2025/07/15	8.6		%	20

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Iron (Fe)	2025/07/15	21 (1)		%	20
			Total Lead (Pb)	2025/07/15	NC		%	20
			Total Lithium (Li)	2025/07/15	NC		%	20
			Total Manganese (Mn)	2025/07/15	37 (1)		%	20
			Total Molybdenum (Mo)	2025/07/15	5.0		%	20
			Total Nickel (Ni)	2025/07/15	4.5		%	20
			Total Phosphorus (P)	2025/07/15	NC		%	20
			Total Rubidium (Rb)	2025/07/15	0.49		%	20
			Total Selenium (Se)	2025/07/15	NC		%	20
			Total Silicon (Si)	2025/07/15	0.21		%	20
			Total Silver (Ag)	2025/07/15	9.5		%	20
			Total Strontium (Sr)	2025/07/15	2.6		%	20
			Total Tellurium (Te)	2025/07/15	NC		%	20
			Total Thallium (Tl)	2025/07/15	0		%	20
			Total Thorium (Th)	2025/07/15	NC		%	20
			Total Tin (Sn)	2025/07/15	NC		%	20
			Total Titanium (Ti)	2025/07/15	NC		%	20
			Total Uranium (U)	2025/07/15	3.6		%	20
			Total Vanadium (V)	2025/07/15	NC		%	20
			Total Zinc (Zn)	2025/07/15	NC		%	20
			Total Zirconium (Zr)	2025/07/15	NC		%	20
C017872	MDW	Spiked Blank	D10-ANTHRACENE (sur.)	2025/07/14		96	%	50 - 140
			D8-ACENAPHTHYLENE (sur.)	2025/07/14		95	%	50 - 140
			D8-NAPHTHALENE (sur.)	2025/07/14		83	%	50 - 140
			TERPHENYL-D14 (sur.)	2025/07/14		99	%	50 - 140
			Quinoline	2025/07/14		111	%	50 - 140
			Naphthalene	2025/07/14		100	%	50 - 140
			1-Methylnaphthalene	2025/07/14		99	%	50 - 140
			2-Methylnaphthalene	2025/07/14		98	%	50 - 140
			Acenaphthylene	2025/07/14		100	%	50 - 140
			Acenaphthene	2025/07/14		96	%	50 - 140
			Fluorene	2025/07/14		97	%	50 - 140
			Phenanthrene	2025/07/14		96	%	50 - 140
			Anthracene	2025/07/14		98	%	50 - 140
			Acridine	2025/07/14		100	%	50 - 140
			Fluoranthene	2025/07/14		83	%	50 - 140
			Pyrene	2025/07/14		85	%	50 - 140
			Benzo(a)anthracene	2025/07/14		94	%	50 - 140
			Chrysene	2025/07/14		86	%	50 - 140
			Benzo(b&j)fluoranthene	2025/07/14		94	%	50 - 140
			Benzo(k)fluoranthene	2025/07/14		104	%	50 - 140
			Benzo(a)pyrene	2025/07/14		102	%	50 - 140
			Indeno(1,2,3-cd)pyrene	2025/07/14		97	%	50 - 140
			Dibenz(a,h)anthracene	2025/07/14		96	%	50 - 140
			Benzo(g,h,i)perylene	2025/07/14		94	%	50 - 140
C017872	MDW	Method Blank	D10-ANTHRACENE (sur.)	2025/07/14		98	%	50 - 140
			D8-ACENAPHTHYLENE (sur.)	2025/07/14		94	%	50 - 140
			D8-NAPHTHALENE (sur.)	2025/07/14		77	%	50 - 140
			TERPHENYL-D14 (sur.)	2025/07/14		87	%	50 - 140
			Quinoline	2025/07/14	ND, RDL=0.020		ug/L	
			Naphthalene	2025/07/14	ND, RDL=0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1-Methylnaphthalene	2025/07/14	ND, RDL=0.050		ug/L	
			2-Methylnaphthalene	2025/07/14	ND, RDL=0.10		ug/L	
			Acenaphthylene	2025/07/14	ND, RDL=0.050		ug/L	
			Acenaphthene	2025/07/14	ND, RDL=0.050		ug/L	
			Fluorene	2025/07/14	ND, RDL=0.050		ug/L	
			Phenanthrene	2025/07/14	ND, RDL=0.050		ug/L	
			Anthracene	2025/07/14	ND, RDL=0.010		ug/L	
			Acridine	2025/07/14	ND, RDL=0.050		ug/L	
			Fluoranthene	2025/07/14	ND, RDL=0.020		ug/L	
			Pyrene	2025/07/14	ND, RDL=0.020		ug/L	
			Benzo(a)anthracene	2025/07/14	ND, RDL=0.010		ug/L	
			Chrysene	2025/07/14	ND, RDL=0.020		ug/L	
			Benzo(b&j)fluoranthene	2025/07/14	ND, RDL=0.030		ug/L	
			Benzo(k)fluoranthene	2025/07/14	ND, RDL=0.050		ug/L	
			Benzo(a)pyrene	2025/07/14	ND, RDL=0.0050		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/07/14	ND, RDL=0.050		ug/L	
			Dibenz(a,h)anthracene	2025/07/14	ND, RDL=0.0030		ug/L	
			Benzo(g,h,i)perylene	2025/07/14	ND, RDL=0.050		ug/L	
C017877	IT1	Spiked Blank	O-TERPHENYL (sur.)	2025/07/14		113	%	60 - 140
			EPH (C10-C19)	2025/07/14		102	%	70 - 130
			EPH (C19-C32)	2025/07/14		110	%	70 - 130
C017877	IT1	Method Blank	O-TERPHENYL (sur.)	2025/07/14		103	%	60 - 140
			EPH (C10-C19)	2025/07/14	ND, RDL=0.20		mg/L	
			EPH (C19-C32)	2025/07/14	ND, RDL=0.20		mg/L	
C018058	KA5	Matrix Spike	Total Suspended Solids	2025/07/15		101	%	80 - 120
C018058	KA5	Spiked Blank	Total Suspended Solids	2025/07/15		101	%	80 - 120
C018058	KA5	Method Blank	Total Suspended Solids	2025/07/15	ND, RDL=1.0		mg/L	
C018058	KA5	RPD	Total Suspended Solids	2025/07/15	0		%	20
C018087	MYO	Matrix Spike [DOO541-01]	Bromide (Br)	2025/07/14		97	%	78 - 120
C018087	MYO	Spiked Blank	Bromide (Br)	2025/07/14		95	%	80 - 120
C018087	MYO	Method Blank	Bromide (Br)	2025/07/14	ND, RDL=0.010		mg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
C018087	MYO	RPD [DOO541-01]	Bromide (Br)	2025/07/14	NC		%	20
C018092	NJD	Matrix Spike	Total Sulphide	2025/07/14		101	%	80 - 120
C018092	NJD	Spiked Blank	Total Sulphide	2025/07/14		104	%	80 - 120
C018092	NJD	Method Blank	Total Sulphide	2025/07/14	ND, RDL=0.0018		mg/L	
C018092	NJD	RPD	Total Sulphide	2025/07/14	11		%	20
C018846	NJD	Matrix Spike	Total Sulphide	2025/07/15		70 (1)	%	80 - 120
C018846	NJD	Spiked Blank	Total Sulphide	2025/07/15		104	%	80 - 120
C018846	NJD	Method Blank	Total Sulphide	2025/07/15	ND, RDL=0.0018		mg/L	
C018846	NJD	RPD	Total Sulphide	2025/07/15	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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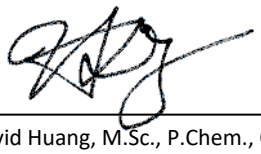
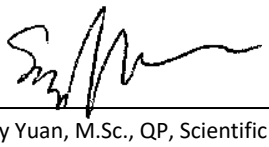
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Sandy Yuan, M.Sc., QP, Scientific Specialist

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

Bureau Veritas Certified by Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Gilbert, BBY General Manager responsible for British Columbia Environmental laboratory operations.

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C560611
2025/07/08 16:14

Custody Tracking Form

eCOC Number: W1086C2

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a **barcode or a Bureau Veritas eCOC confirmation number** in the top right hand side. This number links your electronic submission to your samples. This form should be **placed in the cooler with your samples.**

Relinquished By				Received By			
		Date		ASHISH THOMMAS VARGHESE		Date	2025/07/08
		Time (24 HR)				Time (24 HR)	16:14
		Date				Date	
		Time (24 HR)				Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print): [illegible]

# of Coolers/Pkgs: 2

Rush ☐ Immediate Test ☐ Food Residue ☐

Micro ☐ Food Chemistry ☐

***** Laboratory Use Only *****

Received At:

Labeled By:

Verified By:

Lab Comments:

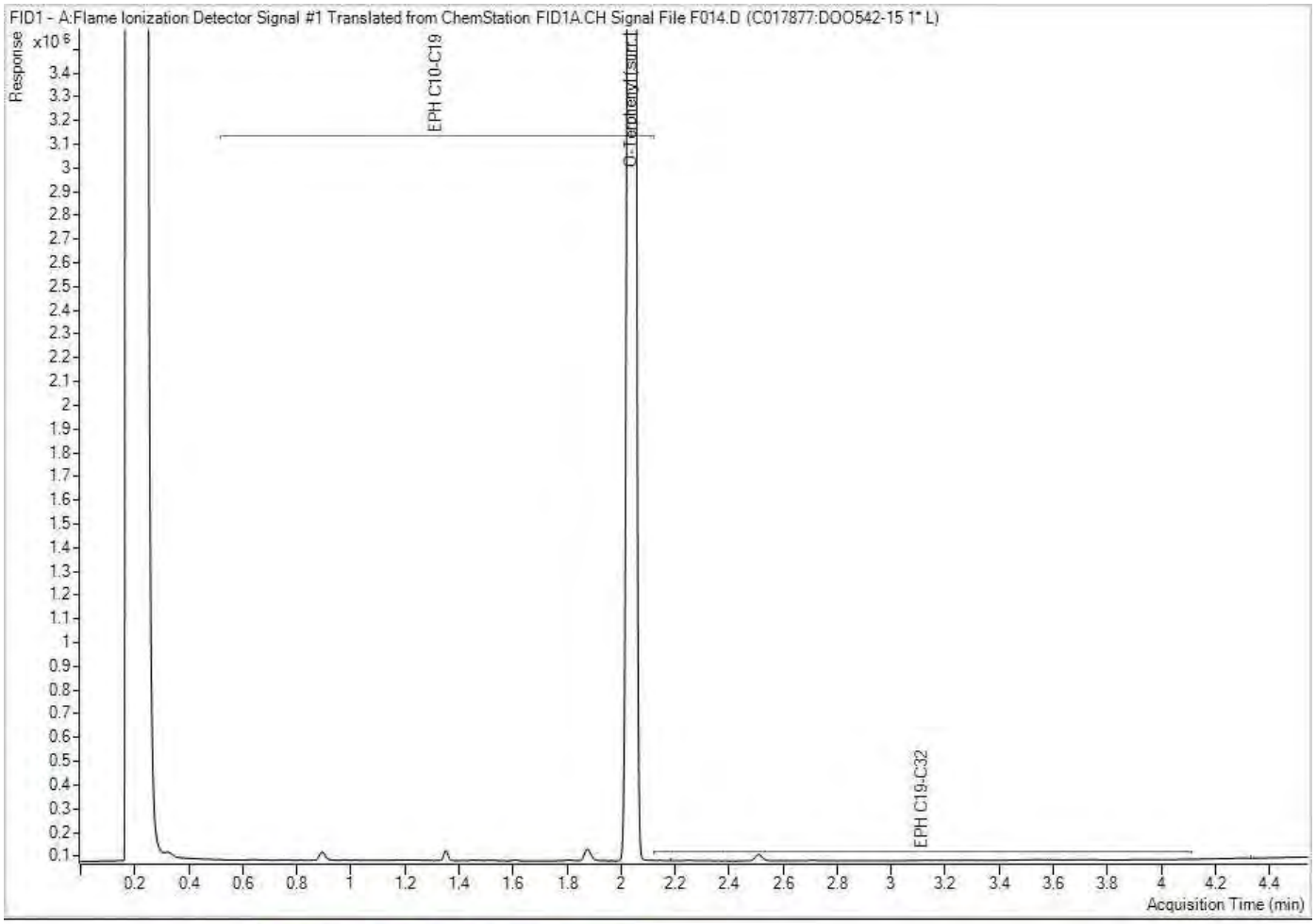
Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
N	N	Y	12	9	10
N	N	Y	10	15	13

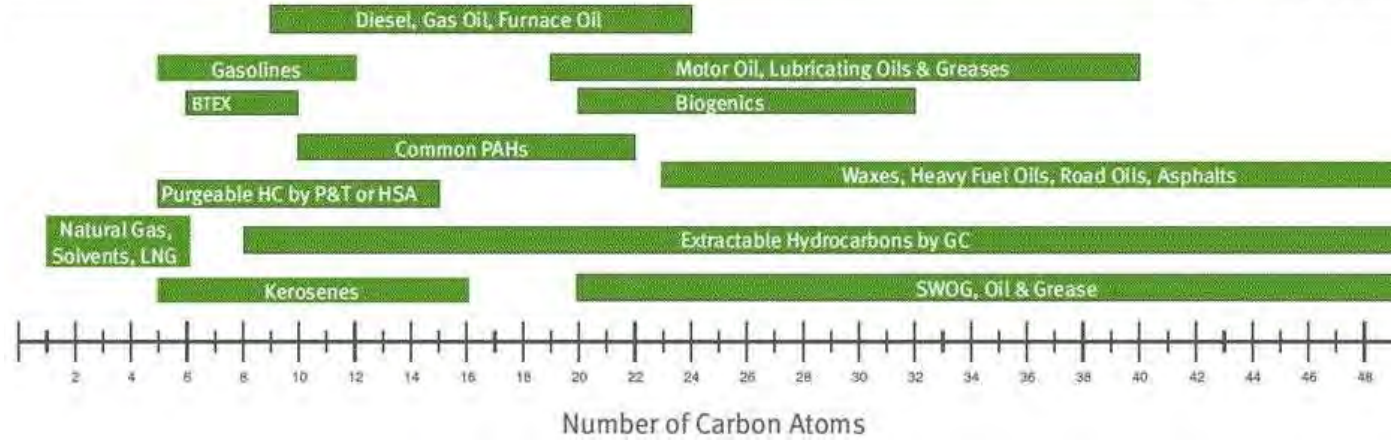
Drinking Water Metals Preservation Check Done (Circle) YES NO

MVAN-2025-07-551

COR FCD-00340 /5 PAGE 1 of 1

EPH in Water when PAH required Chromatogram





Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

eCOC: W108602

Project Information:	C560611
Job Received:	2025/07/08 16:14
Expected TAT:	Standard TAT
Expected Arrival:	2025/07/08 17:00
Submitted By:	Jennifer Choyce
Submitted To:	Burnaby ENV: 4606 Canada Way

Invoice Information

Attn: Accounts Payable
Fortis BC Energy Inc
16705 Fraser Hwy
Surrey , BC , V4N 0E8
Email to:
einvoices@fortisbc.com

Report Information

Attn: Jennifer Choyce
HATFIELD CONSULTANTS
200-850 Harbourside Dr
North Vancouver , BC , V7P 0A3
Email to:
jchoyce@hatfieldgroup.com
mwhelly@hatfieldgroup.com
smangwani@hatfieldgroup.com

Project Information

Quote #:	C50083
PO/AFE#:	4800010213
Project #:	Fortis11234/PE-110163
Site Location:	Woodfibre Pipeline Project

Analytical Summary

A: Standard TAT

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Woodfibre 2025	Woodfibre Additional 2025	Woodfibre Blank 2025	Set Number
WLNG-DS	1	2025/07/08 09:17	WATER	15	A			1
WLNG -EOP	2	2025/07/08 08:45	WATER	19	A	A		2
WLNG-US	3	2025/07/08 09:40	WATER	15	A			1
SQRI-US	4	2025/07/08 13:43	WATER	15	A			1
SQRI-DS	5	2025/07/08 14:03	WATER	15	A			1
Field Blank	6	2025/07/08 09:40	WATER	15			A	3
Trip Blank	7	2025/07/08	WATER	15			A	3

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

# of Samples: 7

Details:

WLNG-DS: 09:17; pH 7.5; Temp 12.1oC; DO 5.57 (mg/L)
WLNG-EOP: 08:45; pH 7.15, Temp 12.8oC; DO 2.37 (mg/L)
WLNG-US: 09:40; pH 7.3; Temp 14.5oC; DO 6.47 (mg/L)
SQRI-US: 13:43; pH 6.54; Temp 13.6oC
SQRI-DS: 14:03; pH 6.12; Temp 13.2oC

Field blank done at WLNG-US

eCOC: W108602

Project Information:	C560611
Job Received:	2025/07/08 16:14
Expected TAT:	Standard TAT
Expected Arrival:	2025/07/08 17:00
Submitted By:	Jennifer Choyce
Submitted To:	Burnaby ENV: 4606 Canada Way

Sample Set Listing

Set 1 (4 samples)	Set 2 (1 sample)	Set 3 (2 samples)
WLNG-DS	WLNG -EOP	Field Blank
WLNG-US		Trip Blank
SQRI-US		
SQRI-DS		