

Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Page	1 of 6

Eagle Mountain - Woodfibre Gas Pipeline Project

Woodfibre Site Waste Discharge Approval Report

Report Period: January 22nd to January 28th, 2024



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Page	2 of 6

Contents

Preamble	3
Introduction	3
Sampling Methodology	4
Summary	5
Activities	5
Point of Discharge from Water Treatment System Summary	5
Exceedance details	5
Receiving Environment Summary	5
Exceedance details	6

Appendix A: Point of Discharge from Water Treatment System Documentation

Appendix B: Receiving Environment Documentation



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Page	3 of 6

Preamble

This report is the initial report for the British Columbia Energy Regulator (BCER) Waste Discharge Approval (BCER number AE 111973) for the FortisBC Eagle Mountain – Woodfibre Gas Pipeline (EGP) Project for the BC Rail site. This report covers the reporting period from January 22nd to January 28th, 2024 and includes the results of water quality monitoring and sampling of the receiving environment (upstream and downstream) at the Woodfibre Site. During this timeframe, no discharge into the receiving environment at the Woodfibre Site occurred from the water treatment plant.

FortisBC has retained Triton Environmental Consultants Ltd. as the Qualified Professional to implement and oversee the monitoring and sampling program in the receiving environment. The data represented below, including laboratory reported exceedances, represent background conditions of the receiving environment, and are not related to EGP Project activities. The data collected and reported in this report represents background water quality conditions at the two receiving environment sampling sites as shown on the approved Waste Discharge Approval AE-111973.

Water Treatment Plant Update

Since the issuance of the Waste Discharge Approval (AE 111973) on December 8th, 2023, FortisBC's tunnel contractor Frontier-Kemper Michels Joint Venture (FKM) has commenced shipping the water treatment plant (WTP) components to the Woodfibre site. No water treatment plant has been set up on site to date.

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 Approval AE-111973 Section 4.2:

The Approval Holder 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 approval. 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 date 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 this subject approval, and also made publicly available on the FortisBC Eagle Mountain-Woodfibre Gas Pipeline Project | Talking Energy webpage.



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Page	4 of 6

FortisBC requests that the BCER confirm the receipt of this submittal and confirm that the submission meets the requirements of reporting. Future reports will use this format unless otherwise directed by BCFR.

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 Approval.

At the receiving environment, real time daily field readings of pH, temperature, NTU, electrical conductivity, DO, ORP and salinity are being taken using an AquaTROLL 600 datalogger upstream and downstream in the watercourse at the Woodfibre site. Visible sheen will be monitored with visual inspections during times of discharge or sampling. Real time and daily readings are being monitored at the same time with one piece of equipment, allowing all the daily readings to be real time.

At the point of discharge from the WTP, the parameters are being monitored using field equipment (YSI ProDSS) and sondes/real time meters make and models to be confirmed by the contractor. Table 1 and Table 2 below show how each parameter is being monitored.

Table 1. Monitoring Process at Point of Discharge from Water Treatment System

Permit Frequency	Parameters	Details
Daily	Visible Sheen	In field inspection
Daily (or per batch)	DO	Monitoring using YSI ProDSS
	ORP	Monitoring using YSI ProDSS
	Salinity	Monitoring using YSI ProDSS
Real Time (or per	рН	Monitoring using YSI ProDSS
batch)	Temperature	Monitoring using YSI ProDSS
	NTU	Monitoring using YSI ProDSS
	Electrical Conductivity	Monitoring using YSI ProDSS
Weekly (or per	List prescribed in permit	No Changes, still lab samples
batch) Lab Samples		

Table 2. Receiving Environment (upstream and downstream) Monitoring Process

Permit Frequency	Parameters	Details
Daily	Visible Sheen	In field inspection
Daily	DO	Monitoring using Sonde- AquaTROLL 600 datalogger
	ORP	Monitoring using Sonde- AquaTROLL 600 datalogger
	Salinity	Monitoring using Sonde- AquaTROLL 600 datalogger
Real Time	рН	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	No changes, still lab samples



Reporting Week	Jan 22 nd to Jan 28 th , 2024	
Report #	5	
Page	5 of 6	

Receiving Environment equipment details: Sondes: Aqua-TROLL 600 made by In-Situ Inc. Sondes set up to log temperature, specific conductivity, salinity (in PSU), pH, ORP, DO (mg/L), and turbidity (NTU) at 10 minute intervals.

Point of Discharge from the water treatment system equipment details: YSI ProDSS with pH, conductivity, DO, ORP and turbidity probe that measure pH, temperature, NTU, electrical conductivity, ORP, DO and salinity.

Summary

Activities

- The real time water quality monitoring equipment (sondes) were deployed at the Woodfibre Site on December 18th, 2023.
- No discharges to the receiving environment have occurred from the water treatment plant within the reporting period. The water treatment plan has not yet been built and not tunneling is occurring.

Point of Discharge from Water Treatment System Summary

N/A - No discharge occurred during the reporting period.

Exceedance details

N/A - No discharge occurred during the reporting period.

Receiving Environment Summary

The receiving environment is being monitored as a permit requirement, currently, there are no discharges from the WTP to the receiving environment, so all recorded exceedances in the laboratory report are not project related and existing background quality.

Table 3: Upstream Monitoring Information

Date of Lab	Real Time	Field Samples	Results
Sample	Monitored	Taken	
2024-01-22	Yes	Yes-real time	Full set of lab sample results, photo and documentation are
			provided in Appendix B

Table 4: Downstream Monitoring Information

Date of Lab	Real Time	Field Samples	Results
Sample	Monitored	Taken	
2024-01-22	Yes	Yes-real time	Full set of lab sample results, photo and documentation are
			provided in Appendix B



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Page	6 of 6

Receiving Environment Monitoring Details

- Daily visible sheen checks have not been conducted in the receiving environment as there have not been any discharges from the WTP.
- All receiving environment lab results are in Appendix B.
- Recorded exceedances in the laboratory and field samples collected from the receiving environment (upstream and downstream) are indicative of the existing background water quality in the Squamish River, and are not related to the EGP Project activities.



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	А

Appendix A Point of Discharge from Water Treatment Plant Documentation



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	А

No discharge from the water treatment plant, nothing to report



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	В

Appendix B Receiving Environment Documentation



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	В

Receiving Environment Sample Analysis

TRITON	Sample ID		Zii COLON			WLNG US1	WLNG DS 1					
TRITON Environmental Consultants	LAB ID	Reviewed and signed off by:	i al		Miranda Lewis PAg, MSc	(Upstream) VA24A1174-002	(Downstream) VA24A1174-001	Sample or value notes	BCWQ FAL - Short Term	BCWQ FAL - Long Term	BCWQ MAL - Short Term	BCWQ MAL - Long Term
1.16	Date Sampled Time Sampled Units		12 oc 1897			22-Jan-2024 11:07 Water	22-Jan-2024 11:44 Water					
Analyte In Situ Parameters	Units	BCAWWQG-FAL-LT 12	BCAWWQG-FAL-ST ¹³	BCAWWQG-MAL-ST ¹	BCAWWQG-MAL-LT 1,3	NA.	N/A		If natural nH < R.5. nn storistinaly similfinant	Guidelin	e notes	
pH (5eld)	pH units	6.5-9.0	6.5-9.0	7.0-8.7	7.0-8.7	7.02	7.32	LT guideline not applicable ³	If natural pH < 6.5, no statistically significant decrease from background. No restriction in nonease except in arease with unique flora or faura. Unrestricted change permitted within range of 6.5 to 9.0. Il matural pH = 2.0, no statistically significant increase from background. Refer to BC Water Quality Guidelines for more information.		Unrestricted change within this range (for protection of mollusc embryo development).	
Temperature (field)	10	-	19, hourly rate of change <1°C	Max +/- from BKG 1°C, hourly rate of change <0.5°C	-	4.3	4.5		Guideline is species-dependent. Short-term daily temperature guideline is 19°C for streams with unknown fish discribution. Refer to BC Water Quality Guidelines for more information on incubation and spewming temperature guidelines, and for those with different fish distributions. Housily rate of change not to exceed 1°C.		Guideline for marine waters are based on natural ambient conditions. Max and min. 1°C charge from natural condition. Natural temperature cycle characteristic of the site should not be altered in ampliade or frequency by human activities. Max rate of any human- induced temperature change not to exceed 0.5°C hously.	
Conductivity (field)	μS/cm		-	-	-	26	36		Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.		Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.	
Turbidity (field)	NTU	Varies with background, see note Lowest value for guideline is 3 NTU	Varies with background, see note Lowest value for guideline is 9 NTU	Varies with background, see note Lowest value for guideline is 9 NTU	Varies with background, see note Lowest value for guideline is 3 NTU	6.14	3.73	LT guideline not applicable ³	Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters.	Change from background of 2 NTU at any one time for 30 days in clear flows.	Change from background of 5 NTU at any time when background is 8 - 50 NTU during high flows or in turbid waters. Change from background of 10% when background is > 50 NTU at any time during high flows or in turbid waters.	Change from background of 2 NTU at any one time for 30 days in clear flows.
Dissolved Oxygen (field) General Parameters	mg/L	Varies with life stage, see note	Varies with life stage, see note	Varies with life stage, see note	Varies with life stage, see note	11.98	12.24	A 24-hour average dissolved coygen concentration is shown here to represent the downstream DO. LT guideline not applicable 3	Buried embryoʻalevin minimum 9 mg/L, all other ilfe stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/alevin minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryolalevin minimum 9 mg/L, all other 86e stages 5 mg/L. Refer to BC Water Quality Guidelines for more information.	Buried embryo/lakevin minimum 11 mg/L, all other life stages 8 mg/L. Rufer to BC Water Quality Guidelines for more information.
Hardness (as CaCO3) (total) Total Dissolved Solids	mg/L mg/L	:	:	:	:	6.84 22	14.6 31		Channe from harkmound of 25 moll, at any one		Change from hardonnund of 25 molt at any	
Total Suspended Solids	mgL	Varies with background, see note Lowest value for guideline is Emgl.	Varies with background, see note Lowest value for guideline is 26mg/L	Varies with background, see note Lowest value for guideline is 26 mg L	Varies with background, see note Lowest value for guideline is emg/L	<3.0	<3.0	LT guideline not applicable ³	Change from background of 25 mg/L at any one time for disastion of 24 h in all waters during clear flows or in clear waters. Change from background of 10 mg/L at any one time when background 45 100 mg/L at any long flows or statist waters. Change from background 45 100 mg/L at any background in 50 mg/L at any fire during high flows or turbid waters.	Change from background of 5 mg.L. @ one time for a drussion of 30 days in clear flow.	Change from hadeground of 25 mg/L at any ones from 6 and daring clear flows or in clear waters and unique clear flows or in clear waters. Change from hadeground of 10 mg/L at any ones time when hadeground 25-100 mg/L ating high flows or turbid waters. Change from hadeground 5-100 mg/L at any time during high flows or turbid waters waters.	Change from background of 5 mg/t. (g one time for a drustion of 30 days in clear flow.
Total Organic Carbon (TOC) Dissolved Organic Carbon (DOC)	mg/L mg/L	-	-	•	-	2.81	2.56			Long-term (30-day) median within 20% of background median Long-term (30-day) median within 20% of background median ³		
Total Akalinity (CaCO ₂) Total Sulfide (as S)	mg/L mg/L	Categorical -	-	-	-	5.1 < 0.0015	12.5	Upstream location is highly sensitive to acid inputs (i.e. low buffering capacity). The downstream location has a moderate sensitivity to acid inputs (i.e. moderate buffering capacity). LT guideline not applicable. ³		Guideline is for altalinity (as CaCO3) and categorizes the sensitivity of a water body to acid imputs. Akalinity < 10 mgt. is considered highly sensitive to acid imputs; 10 - 20 mg/L is considered moderately sensitive to acid imputs; > 20 mg/L is considered low sensitivity		
Total Sulfide (un-ionized as H2S) Total Sulfide (as H2S)	mg/L mg/L	0.002	-	•	•	< 0.0015	< 0.0015	LT guideline not applicable ³		Working guideline		
Anions and Nutrients Annoria	mg/L ammonia-N	pH and temperature dependent	pH and temperature dependent	pH, temperature, and salinity dependent	pH, temperature, and salinity decendent	0.008	< 0.0050	LT guideline not applicable ³	Guideline for ammonia as N. pH and temperature dependent. Refer to BC Water Quality Guidelines for more information.	Guideline for ammonia as N. pH and temperature dependent. Refer to BC Water Quality Guidelines for more information.	Guideline for ammonia as N. pH, salinity, and temperature dependent. Refer to BC Water Quality Guidelines for more informaton. Guideline not applicable to freshwater EGP	Guideline for ammonia as N. pH, salinity, and temperature dependent. Refer to BC Water Quality Guidelines for more informator. Guideline not applicable to freshwater EGP
Bromide Chloride	mg/L mg/L	- 150	- 600	dependent - > 110% of background	dependent - < 90% of background	< 0.050	< 0.050	LT guideline not applicable ³	Quality Guidelines for more information.	Quality Quidelines for more informators.	Guideline not applicable to freshwater EGP samples. Human activities should not cause the chloride of marine and extrainin waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.	Guideline not applicable to freshwater EGP samples. Human activities should not cause the chloride of marine and eshazine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
Fluoride	mg/L	-	Varies with hardness	1.5	-	< 0.020	< 0.020		Guideline has interim status.		at that time and depth.	make treen such of the natural chloride expected at that time and depth.
Ntrate (as N)	mg/L mg/L	3 Voice with relevate	32.8 0.06		3.7	0.0475	0.0989	LT guideline not applicable ³				
Total Ntrogen Total Phosphorous	mg/L mg/L	0.005 to 0.015				0.15	0.182	LT guideline not applicable ³		Guideline is for lakes, refer to BCWQ guideline for nutrients and algae for more information.		
Sulfate (as SO4) Total Metals	mg/L	Varies with hardness				1.81	2.47	LT guideline not applicable ³		Guideline does not apply to site.		
Aluminum (Al)-Total	mg/L	Varies with pH, DOC, hardness	-	-	-	0.404	0.238	Downstream location exceeds BCWQ FAL guidelines. LT guideline not applicable 1	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Refer to BC Water Quality Guidelines for more information.	Guideline varies with pH, hardness and Disselved Organic Carbon (DOC). Refer to BC Water Quality Guidelines for more information.		
Antimony (Sb)-Total Arsenic (As)-Total Barium (Ba)-Total Beryllium (Be)-Total	mg/L mg/L mg/L	0.074 0.005 1 0.00013	0.25		0.0125 0.100	< 0.00010 0.0002 0.00411 < 0.000100	0.00013 0.00466	LT guideline not applicable ³		Working guideline status Working guideline status		Interim guideline status Working guideline status
Bernath (Se)-Total Bernath (Se)-Total Boron (B)-Total Cadmium (Cd)-Total	mg/L mg/L mg/L	12			1.2 0.00012	< 0.000100 < 0.00050 < 0.010 0.0000112	< 0.000050 < 0.010 0.0000104	LT guideline not applicable ²		Mountal drooms strice		Working guideline status Working guideline status
Cesium (Cs)-Total Chromium (Cr) - Total	mg/L mg/L mg/L					< 0.000010 < 0.00050	< 0.000010 < 0.00050					
Chromium (Cr(III))-Total Chromium (Cr(VII))-Total Cobalt (Co)-Total Copper (Cu)-Total Iron (Fe)-Total	mg/L mg/L mg/L	0.0089 0.001 0.004	0.11	0.003	0.056 0.0015	< 0.00050 < 0.00050 0.00011 0.00111	< 0.00050 < 0.00050 < 0.00010 0.00089	LT guideline not applicable ³		Working guideline status Working guideline status		Working guideline status Working guideline status
ton (Fe)-Total Lead (Pb)-Total	mg/L mg/L	Varies with hardness	1 Varies with hardness	0.14	0.002	0.241	0.155	LT guideline not applicable ³	Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.003 where hardness s8mg/L. Guideline uses equation e ^{10.272} memisses) 1 sall where hardness is 8-380 mg/L. Lowest value for	Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline equation of "TT" (movement 178) applies to samples with hardness 8-380 mg/L		
Lithium (Li)-Total Magnesium (Mg)-Total	mg/L mg/L					< 0.0010 0.334	< 0.0010 0.418		guideline is 0.003 mg/L.			
Manganese (Mn)-Total	mg/L	Varies with hardness	Varies with hardness	-	÷	0.00935	0.00687	LT guideline not applicable ³	Guideline varies with hardness, refer to BC Water Qualify Guidelines for more information Guideline uses equation 0.01102*hardness 40.54 and applies to samples with hardness 25.250 mg/L. Lowest value for guideline is 0.77 mg/L.	Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline uses equation 0.0044*hardness=0.005 and applies to samples with hardness=0.005 mg E. Lowest value for guideline is 0.81 mg/L. Guideline is calculated as follows: 0.15/b/ehtp/colately. When Medy s 0.5% of 1.15/b/ehtp/colately.		
Mercury (Hg)-Total Molybdenum (Mo)-Total	mg/L mg/L	Varies with mathyl mercury 7.6	- 46	-	-	< 0.0000050 0.000362	< 0.0000050	LT guideline not applicable ³ LT guideline not applicable ³		total Hg, guideline is equal to 0.02 mg/L		
Nickel (Ni)-Total Phosphorus (P)-Total	mg/L mg/L	Varies with hardness 0.005 to 0.015	-	-	0.0083	< 0.00050	< 0.00050	LT guideline not applicable ³ LT guideline not applicable ³		Motifing galdeline status. Goldeline varies with hardness. Guideline to QUES regular to water hardness significant to the statement of the sta		Working guideline status
Potasskum (K)-Total Rubidium (Rb)-Total	mg/L mg/L	-	-			0.285 0.00032	0.264 0.00032	L1 guiserne not approache		appro to area.		
Selenium (Se)-Total	mg/L	0.002	-	•	0.002	< 0.000050	< 0.000050	LT guideline not applicable ³		Guideline for freshwater aquatic life (water column). Alart concentration is 0.001 mg/L, with separate guideline for sediment, invertebrate and fish tissue. Refer to BC Water Quality Guidelines for more information on guideliens and sampling guidance.		Guideline for marine aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, inventebrate and fait bissue. Refer to BC Water Quality Guidelines for more information on guidelines and sampling guidelines.
Silicon (Si)-Total Silver (Ag)-Total	mg/L mg/L	Varies with hardness	Varies with hardness	0.003	0.0015	3.36	3.23	LT guideline not applicable ³	Varies with hardness. Guideline is 0.0001 mgL at hardness <100 mgL, and 0.003 at Hardness > 100 mgL.	Varies with hardness. Guideline is 0.00005 mgL at hardness < 100 mg/L, and 0.0015 at Hardness > 100 mg/L.		Guideline applies to open coast and estuaries. Guideline is applicable to the EGP site.
Sodium (Na)-Total Strontium (Sr)-Total Suffur (S)-Total Tellurium (Te)-Total	mg/L mg/L mg/L mg/L					1.15 0.01 < 0.50 < 0.00020	1.24 0.0177 0.62 < 0.00020					
Thallium (TI)-Total	mg/L	0.0008	÷	ē	•	< 0.000010	< 0.000010	LT guideline not applicable ³		30-day average, site-specific objective for the lower Columbia River, BC. Guideline is for reference only and does not apply to trihe EGP site.		
Thorium (Th)-Total Tin (Sn)-Total Titanium (Ti)-Total Tungsten (W)-Total	mg/L mg/L mg/L					< 0.00010 < 0.00010 0.00804 < 0.00010	< 0.00010 < 0.00010 0.00415 < 0.00010					
Vanadium (V)-Total Zinc (Zn)-Total	mg/L mg/L mg/L mg/L	0.0085		0.055	0.050	0.000127 0.0006 < 0.0030	0.000139 < 0.00050 0.0033	LT guideline not applicable ³		Working guideline status		Working guideline status
Zirconium (Zr)-Total Dissolved Metals	mg/L mg/L mg/L	-	-	-	-	< 0.00020 0.116 < 0.00010	< 0.00020					
Auminum (Al)-Dissolved Antimony (Bb)-Dissolved Ansenic (As)-Dissolved Barium (Ba)-Dissolved Beryllium (Be)-Dissolved	mg/L mg/L					0.00019 0.0023 < 0.000100	0.0969 < 0.00010 0.0001 0.00388 < 0.000100					
Bismuth (Bi)-Dissolved Boron (B)-Dissolved Cadmium (Cd)-Dissolved	mg/L mg/L mg/L	Varies with hardness	Varies with hardness	-	-	< 0.000050 < 0.010 0.000007	< 0.000050 < 0.010 0.0000084	LT guideline not applicable ³	Guideline is handness dependent, refer to BC Water Quality Guidelines for more information Guideline is applicable to water hardness between 7.0 and 455 mg/L. Guideline uses equation e ^{11,100} /ememory. ¹²⁷⁶ , Lowest value for guideline is 0.000018 mg/L.	Guideline is hardness dependent, refer to BC Water Quality Guidelines for more information. Guideline is applicable to hardness between 3.4 and 285 mg/L. Guideline uses equation et al. (Consequence of the Consequence of th		
Calcium (Ca)-Dissolved	mg/L	Categorical	-	-	-	1.93	4.69	Both locations have high sensitivity to acid inputs (i.e. low buffering capacity). "LT guideline not applicable ³	a wood of High.	is 0.0004. Guideline categorites the sensitivity of a water body to acid inputs (a. buffering capacity). Standard is 4 mg/L dissolved Ca for the most sensitive waterbodies, 5 - 8 mg/L for waterbodies with moderate sensitivity to acid inputs. Waterbodies with dissolved calcium > 8 mg/L are considered to have low sensitivity to		
Cesium (Cs)-Dissolved Chromium (Cr)-Dissolved Chromium (Cr(III))-Dissolved Chromium (Cr(VI))-Dissolved	mg/L mg/L mg/L	-	-	· · · · · · · · · · · · · · · · · · ·		< 0.000010 < 0.00050 < 0.00050 < 0.00050	< 0.000010 < 0.00050 < 0.00050 < 0.00050					
Cobart (Co)-Dissolved Copper (Cu)-Dissolved	mg/L	Varies with pH, DOC, hardness	Varies with pH, DOC, hardness	-	-	< 0.00010	< 0.00010	Upstream and downstream locations exceed the long term BCWG for FAL. LT guideline not applicable ³	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Refer to BC Water Quality Guidelines for more information Guideline uses lookup table incorporating sample pH, hardness and DOC.	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Refer to BC Water Quality Guidelines for more information. Guideline uses lookup table incorporating sample pH, hardness and DOC.		
fron (Fe)-Dissolved Lead (Pb)-Dissolved Lithium (Li)-Dissolved	mg/L mg/L mg/L	:	0.35	-		0.022 < 0.00050 < 0.0010	0.019 < 0.000050 < 0.0010					
Magnesium (Mg)-Dissolved Manganese (Mn)-Dissolved Mercury (Hg)-Dissolved Molybdenum (Mo)-Dissolved	mg/L mg/L mg/L mg/L					0.255 0.00145 < 0.000050 0.000354	0.392 0.00246 < 0.0000050 0.000512					
Micrybderum (Mo)-Dissolved Nickel (Ni)-Dissolved Phosphorus (P)-Dissolved Potassium (K)-Dissolved Babidium (Rh)-Dissolved	mg/L mg/L					< 0.00050 < 0.050 0.25 0.00023	< 0.00050 < 0.050 0.254 0.00032	_			-	
Rubidium (Rb)-Dissolved Selenium (Se)-Dissolved Silicon (Si)-Dissolved Silver (Ag)-Dissolved	mg/L mg/L mg/L mg/L					0.00023 < 0.000050 2.8 < 0.000010	0.00032 < 0.000050 2.89 < 0.000010					
Sodium (Na)-Dissolved Strontium (Sr)-Dissolved Sulfur (S)-Dissolved	mg/L mg/L mg/L					1.11 0.00937 0.7	1.23 0.0167 1.11					
Tellurium (Te)-Dissolved Thallium (Ti)-Dissolved Thorium (Tr)-Dissolved Tin (Sn)-Dissolved Tin (Sn)-Dissolved	mg/L mg/L mg/L					< 0.00020 < 0.000010 < 0.00010 < 0.00010	< 0.00020 < 0.000010 < 0.00010 < 0.00010 0.00042					
Tungsten (W)-Dissolved Uranium (U)-Dissolved	mg/L mg/L mg/L mg/L					< 0.00010 0.00068 < 0.00010 0.000108	< 0.00010 0.000117					
Vanadium (V)-Dissolved Zinc (Zn)-Dissolved	mg/L mg/L	Varies with pH, DOC, hardness	Varies with DOC and hardness		•	< 0.00050	< 0.00050	LT guideline not applicable ³	Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Refer to BC	Guideline varies with pH, hardness and Dissolved Organic Carbon (DDC). Refer to BC		
Zirconium (Zr)-Dissolved	mg/L	-	-	-	-	< 0.00020	< 0.00020		Water Quality Guidelines for more information.	Water Quality Guidelines for more information.		
Applied Guideline:	Exceeds	British Columbia Approved and Worl British Columbia Approved and Worl										
Color Key:	BCAWWQG Short and Long-Term Guideline	Exceeds BCAWWQG Long term Guideline	Exceeds BCAWWQG Short term Guideline	Exceeds BCAWWQG MAL Short term Guideline	Exceeds BCAWWQG MAL Long term Guideline							
Color Key: *BC MOECCS, 2023, BC Water Quality Guidelin	us for the December	Areade No Walks & Arriva	nossari franc	Exceeds BCAWWQG MAL Short and Long-term Guidelines	Exceeds both BCAWWQG FAL and MAL Guidelines							
BC MOECCS. 2023. BC Water Quality Guidelin wqg summary equaticife wildlife agri.pdf (gov.	nur une Protection o	 мужес ым, Wedate & Agriculture. Аст 	waste Hom:									



Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	В

Receiving Environment Lab Documentation

ALS Canada Ltd.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : VA24A1174

Client : Triton Environmental Consultants Ltd. Laboratory : ALS Environmental - Vancouver

Contact : Miranda Lewis Contact : Can Dang

Address : Suite 1730, 1111 West Georgia St Address : 8081 Lougheed Highway

Vancouver, BC Canada V6E 4M3 Burnaby, British Columbia Canada V5A 1W9

Telephone : 604 631 2213 Telephone : +1 604 253 4188

Facsimile : --- Facsimile : +1 604 253 6700

 Project
 : 11964
 Page
 : 1 of 6

 Purchase order number
 : 11964 - Task 20 - Phase 3C-4C
 Quote number
 : VA2023TRIT1000012 (VA23-TRIT100-012)

C-O-C number : ---- QC Level : ALS Canada Standard Quality Control

Site : Water Analysis

Dates

Sampler

Date Samples Received : 22-Jan-2024 17:30 Issue Date : 22-Jan-2024 Client Requested Due Date : 29-Jan-2024 Scheduled Reporting Date : 29-Jan-2024

Delivery Details

Mode of Delivery : Undefined Security Seal : Not Available

No. of coolers/boxes : --- Temperature : 8

Receipt Detail : No. of samples received / : 2 / 2

analyzed

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances (if any)

: Aegeon, Sam

- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Where possible, ALS will store samples for the following durations, measured from date of sample submission: 30 days for Soil and Water samples; 6 months for Tissue/Biota samples; 14 days for air samples collected on re-usable media; and 3 days for water samples submitted for microbiological testing. Longer storage times are available upon request.
- Temperature is recorded in °C unless otherwise noted.

Issue Date : 22-Jan-2024

Page : 2 of 6

Work Order: VA24A1174 Amendment 0

Client : Triton Environmental Consultants Ltd.



Sample Container(s)/Preservation Non-Compliances (if any)

All comparisons are made against pretreatment/preservation practices published by CCME, BC ENV, Ontario MOE, Environment Canada, Health Canada, US EPA, APHA Standard Methods, ASTM, or ISO, and comply with provincial requirements for the laboratory location.

• No sample container/preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

VA24A1174-001	22-Jan-2024 11.44	WENG BO 1	- 1			,	•	•	,	,	, i				,	,		,	•	
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	22-Jan-2024 11:44	WLNG DS 1	1	1	1	 ✓	1	✓	1	1	1	1	1	1	1	1	1	1	1	1
Matrix: Water Laboratory sample ID	Client sampling date / time	Client sample ID	Water - BC10 Dissolved Metals/Hg+Hardnes	Water - BC11 Total Metals/Hg+Hardness -	Water - E160 TSS by Gravimetry (3mg/L)	Water - E162 TDS by Gravimetry (10mg/L)	Water - E290 Total Alkalinity in Water by Titr	Water - E298 Ammonia by Fluorescence	Water - E355-L Total Organic Carbon (Non-Pu	Water - E358-L Dissolved Organic Carbon by	Water - E366 Total Nitrogen by Colourimetry	Water - E372-U Total Phosphorus by Colourimetry	Water - E395 Total Sulfide by Colourimetry (Water - E532 Total Hexavalent Chromium (C	Water - E532A Dissolved Hexavalent Chromic	Water - EC395 Un-ionized Total Hydrogen Su	Water - EC535 Total Trivalent Chromium (Cr III)	Water - EC535A Dissolved Trivalent Chromium	Water - EF001 Field Data	Water - 5235 Anions in Water by IC
necessary for the contain additional and preparation tased in our sampling dates.	analyses, such as ks, that are included in	sampling date will be assumed by the	-9				ation (2 mg/L), as		urgeable) by	Combustion (0.5	(0.03 mg/L)	etry (0.002 mg/L)	Automated Flow)	(Cr VI) by IC	m (Cr VI) by IC	ulfide	I) by Calculation	(Cr III) by		

Proactive Holding Time Report

All sample(s) for this submission were received within the recommended holding times for the requested tests.

Issue Date : 22-Jan-2024

Page : 3 of 6

Work Order: VA24A1174 Amendment 0

Client : Triton Environmental Consultants Ltd.



Requested Deliverables

Account	Payable	- Triton
---------	---------	----------

Tax Invoice (INVOICE (CAN)) Email accountspayable@triton-env.com

Esdat

Canada default ESdat format. (ESDAT_CAN) Email ESdat CA+tritonenv@ESdatLabSync.net

K Shah

ALS Excel Report (ALS MTABXL CAN) Email kshah@triton-env.com Certificate of Analysis (Crosstab) (COA - CrossTab (CAN)) Email kshah@triton-env.com Certificate of Analysis Guideline (Standard) (COA - Guideline (CAN)) Email kshah@triton-env.com Interpretive Quality Control Report (QCI (CAN)) Email kshah@triton-env.com Quality Control (QC (CAN)) Email kshah@triton-env.com Sample Receipt Notification (standard format) (SRN - Short (CAN)) Email kshah@triton-env.com

Keesha Prasad

ALS Excel Report (ALS MTABXL CAN) Email keesha.prasad@triton-env.com Certificate of Analysis (Crosstab) (COA - CrossTab (CAN)) Email keesha.prasad@triton-env.com Certificate of Analysis Guideline (Standard) (COA - Guideline (CAN)) Fmail keesha.prasad@triton-env.com Interpretive Quality Control Report (QCI (CAN)) Email keesha.prasad@triton-env.com Quality Control (QC (CAN)) Email keesha.prasad@triton-env.com Sample Receipt Notification (standard format) (SRN - Short (CAN)) Email keesha.prasad@triton-env.com

Miranda Lewis

ALS Excel Report (ALS MTABXL CAN) Email mlewis@triton-env.com Certificate of Analysis (Crosstab) (COA - CrossTab (CAN)) Email mlewis@triton-env.com Certificate of Analysis Guideline (Standard) (COA - Guideline (CAN)) Email mlewis@triton-env.com Interpretive Quality Control Report (QCI (CAN)) Email mlewis@triton-env.com Quality Control (QC (CAN)) Email mlewis@triton-env.com Sample Receipt Notification (standard format) (SRN - Short (CAN)) Email mlewis@triton-env.com Tax Invoice (INVOICE (CAN)) Email mlewis@triton-env.com

Sam Blanchard

ALS Excel Report (ALS MTABXL CAN) Email sBlanchard@triton-env.com Certificate of Analysis (Crosstab) (COA - CrossTab (CAN)) Email sBlanchard@triton-env.com Certificate of Analysis Guideline (Standard) (COA - Guideline (CAN)) Email sBlanchard@triton-env.com Interpretive Quality Control Report (QCI (CAN)) Email sBlanchard@triton-env.com Quality Control (QC (CAN)) Email sBlanchard@triton-env.com Sample Receipt Notification (standard format) (SRN - Short (CAN)) Email sBlanchard@triton-env.com

Issue Date : 22-Jan-2024

Page

4 of 6 VA24A1174 Amendment 0 Work Order:

Client Triton Environmental Consultants Ltd.

Sophie Vidal

Tax Invoice (INVOICE (CAN)) Email svidal@triton-env.com Issue Date : 22-Jan-2024

Page : 5 of 6

Work Order: VA24A1174 Amendment 0

Client : Triton Environmental Consultants Ltd.



Methods with Laboratory

Sale item

Method	Laboratory	Address	City	Province	Country
Ammonia by Fluorescen	ce				
E298	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Anions in Water by IC					
E235.Br-L	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E235.Cl	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E235.F	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E235.NO2-L	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E235.NO3-L	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E235.SO4	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Hexavalent Cl	nromium (Cr VI) by IC				
E532A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Mercury Wate	r Filtration				
EP509	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Metals Water	Filtration				
EP421	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Metals/Hg+Ha	rdness - CSR,CCME,BCAW	QG,CDW			
E421	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
E509	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
EC100	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Organic Carbo	on by Combustion (0.5 mg/L) in Water			
E358-L	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Dissolved Trivalent Chro	omium (Cr III) by Calculation				
EC535A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Field Data					
EF001	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
TDS by Gravimetry (10m	ıg/L)				
E162	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Total Alkalinity in Water	by Titration (2 mg/L), as Cat	003			
E290	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Total Hexavalent Chrom	ium (Cr VI) by IC				
E532	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada
Total Metals/Hg+Hardne	ss - CSR,CCME,BCAWQG,C	DW			
E420	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada

22-Jan-2024 Issue Date :

Page

6 of 6 VA24A1174 Amendment 0 Work Order:

Triton Environmental Consultants Ltd. Client



E508	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
EC100A	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Total Nitrogen by Colo	urimetry (0.03 mg/L)					
E366	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Total Organic Carbon (Non-Purgeable) by Combust	ion (0.5 mg/L) in Water				
E355-L	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Total Phosphorus by C	colourimetry (0.002 mg/L)					
E372-U	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Total Sulfide by Colour	rimetry (Automated Flow) (0.0	0015 mg/L)				
E395	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Total Trivalent Chromic	um (Cr III) by Calculation					
EC535	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
TSS by Gravimetry (3m	ng/L)					
E160	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	
Un-ionized Total Hydro	gen Sulfide					
EC395	Vancouver	8081 Lougheed Highway	Burnaby	British Columbia	Canada	

Environmental

Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here.

COC Number: 17 -

Canada Toll Free: 1 800 668 9878

	www.alsglobal.com																					
Report To	Contact and company name below will appear on the final report		Report Format / Distribution					Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)									ıly) .					
Company:	Triton Environmental	Select Report F	Format: ☑ PDF ☑	EXCEL [] ED	D (DIGITAL)		Reg	Jular	[R] [⊡ Sta	ndard T	AT if rea	ceived	by 3 p	m - bu	siness o	days - r	no sunch	arges ap	pty		
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Phone:	604-356-9218	☑ Compare Result	its to Criteria on Report -	provide details belo	w if box checked	Same Day, Weekend or Statutory holiday [E								iay [E:		_						
	Company address below will appear on the final report	Select Distribut	Select Distribution: EMAIL				200% (Laboratory opening fees may apply									L						
Street:	1730-1111 West Georgia Street	Email 1 or Fax	mail 1 or Fax _mlewis@triton-env_com			**** C	ate and) Time	Requi	ed for	all E&P	TATS:					d d~n	инт-у	y hhtm	ini		
City/Province:	Vancouver/BC	Email 2	mail 2 kshah@triton-env.com; sblanchard@triton-env.com			V.COM For tests that can not be performed according to the service level selected, you will be contacted.										-						
Postal Code:	V6E 4M3	Email 3	mail 3 ESdat_CA+tritonenv@ESdatLabSync.net			Analysis Request										*						
Invoice To	Same as Report To		Invoice Dis	tribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										details						
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Contact:		Email 2	Email 2 svidal@triton-env.com; mlewis@triton-env.com										g	a	ŀ]	3] J	
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Reporting Week	Jan 22 nd to Jan 28 th , 2024
Report #	5
Appendix	В

Receiving Environment Field Notes and Logs



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-1-22-Chan-7B147

Project Component:	Tunnel	Site Name:	Receiving Environment - Downstream of Discharge						
Inspection Date:	01/22/2024	Location:	WLNG						
Triton QP:	Aegean Chan	Latitude/Longitude:	49.6683	-123.247958					
Temperature(c): Low 3	High 6	Permit:	PE 110136						
Weather Conditions: Light	t Rain	Ground Conditions:	Wet						

Observations

Time: 11:44:00 Flow Volume (visual): high

Notes:

Odour Detected?: No Notes:
Unusual Colour? No Notes:
Unusual No Notes:
Observations?

Sheen on Water? No Notes:

Samples Collected - Parameters

Total Metals
+ Mercury

General Parameters

Yes

(Alkalinity)

Other Sample:

Dissolved Metals
+ Mercury

Yes
Unionized Sulfide

Yes

TSS Yes Anions Yes

TDS Yes VOC/VPH No

Nutrients Yes EPH, PAH, LEPH/HEPH No

DOC Yes Trout LC50 No

Logger Maintenance

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

Describe Logger Maintenance

Photos



Photo:

Location: Downstream

Description: Downstream location - US View



Photo: 2

Location: Downstream

Description: Downstream location - DS View



Photos



Photo: 3

Location: Downstream

Description: Downstream location- Across View

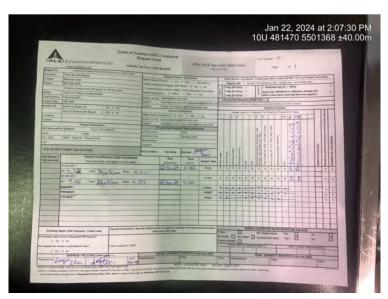
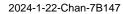


Photo: 4

Location: Lab COC

Description: Lab COC





Sign Off

Report Prepared By: Aegean Chan

Report Reviewer: Miranda Lewis

Name:

Designation:

Designation Number:

Report Reviewed: Yes

Professional(s) of Record: N/A



FortisBC Eagle Mountain-Woodfibre Gas Pipeline

Water Discharge Authorization Water Quality Monitoring

2024-1-22-Chan-F8099

Project Component:	Tunnel	Site Name:	Receiving Environment -	Upstream of Discharge
Inspection Date:	01/22/2024	Location:	WLNG	
Triton QP:	Aegean Chan	Latitude/Longitude:	49.669455 -1	123.25087
Temperature(c): Low 3	High 6	Permit:	PE 110136	
Weather Conditions: Light Rain		Ground Conditions: Wet		

Observations

Time: 11:07:00 Flow Volume (visual): high

Notes:

Odour Detected?: No Notes:
Unusual Colour? No Notes:
Unusual No Notes:
Observations?

Samples Collected - Parameters

Sheen on Water?

Total Metals

+ Mercury

General Parameters

Yes

(Alkalinity)

Other Sample:

Dissolved Metals
+ Mercury

Yes
Unionized Sulfide

Yes

Notes:

TSS Yes Anions Yes

TDS Yes VOC/VPH No

Nutrients Yes EPH, PAH, LEPH/HEPH No

DOC Yes Trout LC50 No

Logger Maintenance

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

Describe Logger Maintenance



Photos



Photo:

Location: Upstream

Description: Upstream location - US View



Photo: 2

Location: Upstream

Description: Upstream location- DS View



Photos



Photo: 3

Location: Upstream

Description: Upstream location - Across View

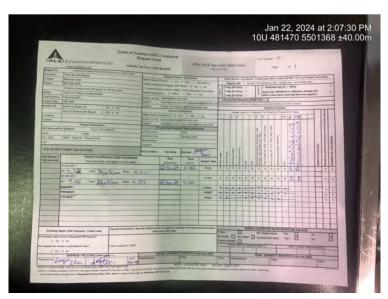
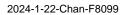


Photo: 4

Location: Lab COC

Description: Lab COC





Sign Off

Report Prepared By: Aegean Chan

Report Reviewer: Miranda Lewis

Name:

Designation:

Designation Number:

Report Reviewed: Yes

Professional(s) of Record: N/A