

TECHNICAL MEMORANDUM

To: Ian McAllister, Ashleigh Crompton, Mike Champion, and Ryan Schucroft (Woodfibre LNG) **Date:** 24 July 2026

From: Holly Pelletier, Cheng Kuang and Patrick Mueller (Lorax) **Project #:** A825-1

Subject: PE-111578 Weekly Discharge and Compliance Report #123 for July 12 - 18

Waste Discharge Authorization (WDA) Effluent Permit PE-111578 was issued by the British Columbia Energy Regulator (BCER) to Woodfibre LNG on February 9, 2024. The associated WDA discharge and compliance monitoring program is conducted by on-site Environmental Monitors (Roe Environmental) that are sub-contracted to the civil works contractor (LB LNG). Analytical samples are submitted by Roe Environmental to ALS Environmental in Burnaby, BC, for testing. Lorax Environmental Services Ltd. (Lorax) provides water quality database management and WDA compliance reporting services to Woodfibre LNG.

This technical memorandum (Report #123) was prepared by Lorax and summarizes WDA monitoring conducted for the period of July 12 - 18. Monitoring data and pending results from prior monitoring periods available at the time of reporting are tabulated and included as appendices to this memorandum. Report #123 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

“The Permittee shall summarize the results of the discharge and compliance monitoring program in a report that shall be submitted to the BCER weekly over the term of this permit. Reports must include suitable tabulated data. The table must include any applicable regulatory limits/guidelines e.g. permit limits, BC Water Quality Guidelines etc. Any exceedances of respective regulatory limits/guidelines must be clearly highlighted. Any missed sampling events/missing data must 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 permit, and also made publicly available on the Woodfibre LNG Environmental Reporting webpage.”

Site layout and water management figures and site images are included in Appendix A. Monitoring results are tabulated in Appendix B through Appendix E for contact water, treated water and receiving environment samples.

1. Current Conditions

1.1 Water Management Infrastructure

The Construction Phase of the Woodfibre LNG Export Facility commenced in October 2023. Shoring works along the foreshore areas were initiated in December 2023, and construction of water management infrastructure commenced in early 2024. Land-based construction occurs within two water management areas east and west of Mill Creek, referred to as the east and west catchments, respectively. Non-contact water is intercepted and diverted around the construction areas to Howe Sound and Mill Creek. Stormwater runoff collected within the east and west catchment areas (7.12 and 5.92 ha, respectively) is managed as site contact water and is conveyed to the East Wastewater Treatment Plant (WWTP) for treatment, or to the East and West Sedimentation Ponds for settling of suspended particulate prior to discharge. Intermittent discharge to Howe Sound from the East and West Sedimentation Ponds commenced April and October 2024, respectively.

Non-contact water from the slopes above and outside the Woodfibre LNG construction area is intercepted by diversion ditches and conveyed to Howe Sound or Mill Creek. Diversion ditches for the west catchment convey water to Mill Creek at station OUT-06, or to Howe Sound at station OUT-02 (Appendix A, Figure 1). During heavy precipitation, non-contact water is also conveyed to Howe Sound via station OUT-01. East of Mill Creek, non-contact water is intercepted and diverted around the east catchment along pre-existing road ditches that flow to East Creek or Mill Creek and through Outfall 13 (OUT-13). The diversion ditch connected to Outfall 11 (OUT-11) is not yet constructed; therefore, Outfall 11 is not in use. The lower reach of East Creek discharges to Howe Sound through Outfall 12 (OUT-12).

The contact water conveyance ditches described in PE- 111578 were designed to transport non-contaminated contact water (*i.e.*, stormwater) to the East and West Sedimentation Ponds and will be constructed following completion of site preparation activities (*e.g.*, site grading, bedrock excavation) along the ditch lines. Until the ditches are operational, contact waters within the catchments are managed to remain on site using a system of berms, sumps, temporary ditches and baker tanks for intermediate storage and are then directed to the East WWTP for treatment, or the East and West Sedimentation Ponds prior to re-use or discharge.

The East and West WWTPs were commissioned to treat contaminated contact water in April and August 2024, respectively. The installed treatment capacities are 1,080 m³/day (East WWTP) and 120 m³/day (West WWTP). Lower than expected volumes of contaminated contact water have been encountered during construction; therefore, operation of the West WWTP has been suspended since September 25, 2024, and all contaminated contact waters are directed to the East WWTP for treatment. Treated effluent is generally directed to the East Sedimentation Pond. Occasionally the East WWTP effluent is discharged to Howe Sound at authorized discharge location SP-E-OUT.

Discharge from the East and West Sedimentation Ponds is controlled using pumps. Sedimentation pond effluent is pumped to the 2700GPM TSS settling system to remove TSS prior to discharge. Each sedimentation pond has an associated authorized discharge location (stations SP-E-OUT and SP-W-OUT) with an initial dilution zone (IDZ) where discharged water mixes with Howe Sound surface waters. The IDZ is defined in PE-111578 and extends in a 150 m radius from each point of discharge into Howe Sound. Since June 2025, surplus contact water in the East Sedimentation Pond is directed to the West Sedimentation Pond for storage or discharge, and discharge of clarified non-contaminated contact water to Howe Sound generally only occurs from the West Sedimentation Pond.

The flocculant-based 2700GPM TSS settling system has an installed capacity to clarify 14,700 m³/day of contact water and consists of six parallel treatment trains (Trains 1 to 6), each with an installed capacity of 2,450 m³/day. A staged commissioning of the 2700GPM system began June 2025 and was completed November 2025. Only one train is operated when contact water flows are low. Additional trains are activated as needed to match the influent volumes. Some of the TSS-clarified water may be recirculated back to the ponds or re-used for construction purposes (*e.g.*, dust suppression).

The construction phase water management layout and monitoring stations are shown in Appendix A, Figure 1. Contact water collection and dewatering locations and photographs of the sedimentation ponds are shown in Appendix A, Figure 2 through Figure 5.

1.2 Weather and Water Management

Generally warm and relatively dry conditions were observed during the July 12 - 18 monitoring period, with light precipitation recorded on July 12 (3.8 mm), July 16 (3.6 mm), July 17 (0.6 mm) and July 18 (2.8 mm). The daily weather conditions are summarized in Table 1.

Table 1:
Summary of Certified Project Area (CPA) Daily Weather Conditions.

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2026-07-12	3.8	21.4	12.5	Partly Cloudy
2026-07-13	0	23.3	11.2	Sunny
2026-07-14	0	25.1	14.5	Sunny
2026-07-15	0	26.4	13.9	Sunny
2026-07-16	3.6	24.0	15.7	Partly Cloudy
2026-07-17	0.6	20.9	15.0	Sunny
2026-07-18	2.8	19.8	15.0	Partly Cloudy

Note: Data retrieved from the Woodfibre on-site weather station operated by Stantec.

From July 12 - 18, the East Sedimentation Pond received water from the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from July 12 - 18 (Appendix B, Table B-5).

Routine operation of the East WWTP continued during the monitoring period (July 12 - 18). Concrete contact water and water from the Contaminated Baker Tank was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (July 12 - 18) except on July 16. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-5).

From July 12 - 18, the West Sedimentation Pond received water from the 4100 Sump and recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system each day during the monitoring period (July 12 - 18) and recirculated back to the pond except on July 13 and 14. West Sedimentation Pond effluent was not discharged to Howe Sound during the monitoring period (July 12 - 18). Clarified effluent was not reclaimed for construction use during the monitoring period (July 12 - 18). Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond are provided in Appendix C (Table C-4).

2. Monitoring Summary

The locations of PE-111578 monitoring stations are shown on Figure 1. Monitoring is conducted by the on-site Environmental Monitors (Roe Environmental). Analytical samples are submitted by Roe Environmental to ALS Environmental in Burnaby, BC for testing.

The following PE-111578 and supplementary monitoring stations are currently being monitored:

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02 and OUT-06).
- Creek water monitoring stations for Woodfibre, Mill and East Creek (SW-01, SW-02, SW-03, SW-04, SW-07).
- Contact water monitoring locations (SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and 2700GPM-OUT).
- Supplementary contact water stations at the outlet of each sampling train. These samples are identified as W2700T#-OUT (with # equal to the train number).
- Effluent compliance stations (SP-E-OUT and SP-W-OUT). As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. From late September to early December 2025, SP-W-OUT was sampled from the discharge manhole. From December 1 to 8, a pipe manifold was installed that combines effluent from the individual trains into a single discharge line and is configured with a sampling port. Since December 8, samples have been collected at the sampling port or at the outfall.
- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

The diversion ditch outlet at Outfall 11 (OUT-11) does not receive water and will not be monitored until it is operational.

The influent culverts for East and West Sedimentation Ponds are not operational and the associated influent stations defined in PE-111578 (SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP-W-IN-2) have been replaced with temporary influent monitoring stations SP-E-IN and SP-W-IN (East and West Sedimentation Pond, respectively) located in-pond, at the influent end of each pond.

A flocculant-based TSS settling system (2700GPM) is used at the West Sedimentation Pond as described in Section 1.1. Influent and effluent are monitored at stations 2700GPM-IN and 2700GPM-OUT, respectively. The 2700GPM-OUT station represents the combined discharge line from all six individual treatment trains when clarified effluent is directed to the West Sedimentation Pond and is equivalent to the SP-W-OUT station. At times when only one 2700GPM treatment train is operated, the 2700GPM-OUT sample may be collected at the outlet of that train. Monitoring of the individual 2700GPM settling system treatment trains is supplemental to the PE-111578 monitoring requirements and is conducted at the discretion of field staff.

Water quality was monitored at stations SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and W2700T1-OUT during the monitoring period (July 12 - 18). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (July 12 - 18) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.*, bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Daily field parameters and a weekly analytical sample were not collected at the east and west catchment effluent compliance stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound from the East and West Sedimentation Ponds during the monitoring period (July 12 - 18). Daily field parameters were not collected at the influent and effluent stations of the East WWTP (WWTP-E-IN and WWTP-E-OUT, respectively) on July 12, 14, 16 and 17 as it was not operational at the time of monitoring. Daily field parameters and a weekly analytical sample were not collected at the influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) as it was not operational during the monitoring period (July 12 - 18).

Table 2:
Summary of PE-111578 Monitoring Samples Collected July 12 - 18.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
July 12, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 13, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
July 14, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
July 15, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M ₂ , W
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
July 16, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
July 17, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
July 18, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	P
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P

Notes:
Monitoring frequency requirements under PE-111578 are indicated as follows:
D – daily monitoring of field parameters at WWTP and sedimentation pond influent and effluent stations.
M – monthly monitoring for all parameters at WWTP, sedimentation pond and receiving environment stations. Monthly monitoring for General parameters, except ammonia, nitrate and nitrite (*i.e.*, nitrogen species) are monitored weekly during blasting season.
M₂ – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
W – weekly monitoring for metals, chromium speciation and methylmercury at WWTP and sedimentation pond influent and effluent stations, effective June 25, 2025.
P – periodic monitoring for targeted parameters that is supplementary to PE-111578 requirements.

3. Water Quality Results

3.1 Summary of Reported Results

Analytical results and associated field measurements included in this weekly report (Report #123) are listed below in Table 3, with additional field measurements presented in Table B-4 (Appendix B) and Table C-3 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- SP-W-IN, 2700GPM-IN, and W2700T1-OUT collected June 14 (dioxins and furans);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected June 16 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected July 2 (total mercury, methylmercury, dioxins and furans);
- COMB-WWTP-E-IN collected July 2 (total mercury and methylmercury);
- SW-02, SW-03 and SW-07 collected July 2 (field measurements and all analytical parameters);
- SP-W-IN, 2700GPM-IN and W2700T1-OUT collected July 3 (total mercury, methylmercury, dioxins and furans);
- W2700T3-OUT and W2700T4-OUT collected July 3 (total mercury and methylmercury);
- SW-01 and SW-04 collected July 3 (total mercury, methylmercury, dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected July 9 (total mercury, methylmercury, dioxins and furans);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected July 10 (total mercury and methylmercury);
- SP-W-IN, 2700GPM-IN, W2700T1-OUT and W2700T4-OUT collected July 11 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected July 13 (total mercury and methylmercury);
- SP-W-IN, 2700GPM-IN and W2700T1-OUT collected July 15 (all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #123.

Sample	Description	Sampling Date	Parameters Reported
WWTP-E-OUT	East WWTP at the effluent meter box	May 25, 2026	Acute Toxicity.
W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	May 26, 2026	Chronic Toxicity.
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR2-0.5	Reference site 2; 0.5 m below surface		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	June 15, 2026	Chronic Toxicity.
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR2-0.5	Reference site 2; 0.5 m below surface		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	June 25, 2026	Total Mercury and Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
COMB-WWTP-E-IN	Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	July 3, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, and VOCs.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	July 9, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, and VOCs.
IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR1-2m	Reference site 1; 2 m below surface		
WQR1-SF	Reference site 1; 2 m above the seafloor	July 10, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond		
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box	July 11, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, and VOCs.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	July 13, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		

3.2 Screening and Reporting Overview

Water quality and flow monitoring results are screened against operational minimum discharge objectives (MDOs) for the East WWTP, and PE-111578 discharge limits for sedimentation pond and 2700GPM TSS settling system stations. The East WWTP MDOs were set equal to Canadian Council of Ministers of the Environment (CCME) water quality guidelines (WQGs) and the PE-111578 discharge limits. Contact and non-contact water monitoring results are also screened against Canadian (Canadian Council of Ministers of the Environment, CCME), Federal (Environment and Climate Change Canada, ECCC) and BC water quality guidelines (WQGs). All water quality data are recorded in the Woodfibre LNG environmental monitoring database. However, for brevity, a sub-set of the results are presented in the weekly report appendices. Results are reported for parameters with a freshwater, estuarine or marine water quality guideline for the protection of aquatic life, parameters with a discharge limit, parameters of potential concern (*i.e.*, dioxins and furans) as well as other parameters that are relevant for water quality interpretation.

It is expected that samples of contact water and samples collected within the IDZ (*i.e.*, mixing zone) defined in PE-111578 for the authorized discharge locations may have parameter concentrations above baseline or background (*i.e.*, reference station) concentrations due to project influence. As well, for receiving environment samples, parameter concentrations above a WQG value but within the range of values observed in the baseline monitoring program are considered to represent the background conditions of the water.

The values used for screening are listed in the water quality tables provided in the appendices. Results above a screening value are highlighted in the tables. Samples collected from sedimentation pond effluent that is discharged to Howe Sound (monitored at stations SP-E-OUT and SP-W-OUT) are evaluated for non-compliance to PE-111578 discharge limits. Exceedances in contact water that remains on-site and is not discharged (*e.g.*, WWTP influent and effluent, sedimentation pond influent, TSS settling system influent, and TSS settling system effluent that is recirculated) are screened for comparison purposes only, and exceedances in these samples do not represent non-compliance to the PE-111578 conditions.

Canadian, Federal and BC WQGs are not specified for dioxins and furans. The general term “dioxins and furans” refers to a total of 210 polychlorinated dibenzo-*p*-dioxin (PCDD) and polychlorinated dibenzofuran (PCDF) compounds. A sub-set of 17 of the most toxic PCDDs and PCDFs are typically evaluated for toxicity by converting the individual parameter concentrations to toxic equivalent (TEQ) values that are summed and evaluated as a single PCDD/F TEQ parameter. To address uncertainties for results reported as not detected, two PCDD/F TEQ values are reported. A “lower-bound PCDD/F TEQ” is calculated assuming a concentration of zero for results reported as not detected, therefore, if all 17 of the individual compounds in the sub-set are

not detected the lower-bound PCDD/F TEQ will equal zero. An “upper-bound PCDD/F TEQ” is calculated assuming a concentration equal to the detection limit for results reported as not detected. These two parameters span the range of possible TEQs if one or more of the PCDDs and PCDFs are reported as not detected.

The BC WQG for total mercury is a sample-specific calculated value that is based on the concentration of methylmercury in a sample. Although an approved BC WQG for the protection of aquatic life for methylmercury has not been explicitly established, the BC Ambient Water Quality Guidelines for Mercury Overview Report indicates the total mercury WQG is derived from a methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) that is set at a concentration that protects fish from mercury bioaccumulation to levels that could harm wildlife that consumes fish. Therefore, if methylmercury results are reported, the 0.0001 µg/L value is presented as a WQG to support the interpretation of methylmercury results.

A summary of reported and pending results is provided in Section 3.1. Results for effluents from East WWTP, 2700GPM TSS settling system, and East and West Sedimentation Ponds are discussed in Section 3.3 and Section 3.4, respectively. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 3.7. Sediment samples are collected annually at stations IDZ-E-SED and IDZ-W-SED and are discussed in Section 3.7 when they are reported. Sediment samples were last collected in May 2026 and the analytical results were presented in Report #122.

3.3 East Catchment

The east catchment water quality and flow monitoring results for stations at the East WWTP, the East Sedimentation Pond, and the authorized discharge location (SP-E-OUT) are discussed in this section and are tabulated in Appendix B.

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected July 12 - 18 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT) as well as analytical results for samples collected June 25 (total mercury and methylmercury for stations SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT; as discussed in Report #120), July 10 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT; as discussed in Report #122) and July 13 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT) (Appendix B, Table B-1 through Table B-4).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected July 12 - 18 met MDOs except for dissolved oxygen on July 13 and 15 (Appendix B, Table B-4). The depletion of dissolved oxygen was also observed in contact water during dry conditions in 2024 and 2025 and is speculated to be induced by warm temperatures and limited freshwater inputs (*i.e.*, from rain) to the contact water management system during dry conditions. Nitrate, hexavalent chromium

and total selenium were above MDOs in the WWTP-E-OUT analytical sample collected July 10 and nitrate, hexavalent chromium, total copper and total zinc were above the MDOs in the WWTP-E-OUT analytical sample collected on July 13. Nitrate and metal parameters above MDOs are tracked in Table 5.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from July 12 - 18 (Section 1.2; Table B-5 of Appendix B). Hence, water quality samples and field measurements were not collected at the SP-E-OUT discharge location during the monitoring period.

Acute toxicity test results for the May 25 WWTP-E-OUT sample discussed in Report #116 were available at the time of reporting. There was no discharge from the East Sedimentation Pond to Howe Sound via the effluent compliance station (SP-E-OUT) at the time of monitoring. East WWTP effluent directed to the pond on May 25 was tested for acute toxicity as a proxy for effluent quality at SP-E-OUT to meet PE-111578 monitoring requirements. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the WWTP-E-OUT sample, indicating the East WWTP effluent passed the acute toxicity test and was not acutely toxic to these organisms.

3.4 West Catchment

The west catchment water quality monitoring results for stations at the West Sedimentation Pond, the 2700GPM TSS settling system, and the authorized discharge location (SP-W-OUT) are discussed in this section and are tabulated in Appendix C. Operation of the West WWTP is suspended (refer to Section 1.1) and monitoring results are therefore not available for the stations at this facility.

As discussed in Section 1.2, clarified sedimentation pond effluent from the 2700GPM TSS Settling System was recirculated to the West Sedimentation Pond and did not discharge to Howe Sound from SP-W-OUT during the monitoring period (July 12 - 18). Therefore, water quality samples and field measurements were not collected at the SP-W-OUT discharge location.

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected July 12 - 18 as well as analytical results for samples collected July 11 (stations SP-W-IN, 2700GPM-IN, W2700T1-OUT and W2700T4-OUT, as discussed in Report #122) (Appendix C, Table C-1 through Table C-3).

Acute toxicity test results for the May 25 W2700T2-OUT sample discussed in Report #116 were available at the time of reporting. There was no discharge from the West Sedimentation Pond to Howe Sound via the effluent compliance station (SP-W-OUT) at the time of monitoring. 2700GPM clarified effluent directed to the pond on May 25 was tested for acute toxicity as a proxy for effluent quality at SP-W-OUT to meet PE-111578 monitoring requirements. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the W2700T2-OUT sample,

indicating the 2700GPM clarified effluent passed the acute toxicity test and was not acutely toxic to these organisms.

3.5 Non-Contact Water Diversion Ditch Outlets

There are no outstanding analytical results for non-contact water diversion ditch outlets.

3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were available at the time of reporting for freshwater samples collected near the mouths of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on July 3 (as discussed in Report #121). The analytical results, field parameters, and WQGs are summarized in Appendix D.

Parameter concentrations met WQGs except fluoride, total aluminum and dissolved copper (Appendix D, Table D-1). Total aluminum was above the long-term WQG in samples collected from Woodfibre Creek and East Creek. Fluoride and dissolved copper were above the long-term WQGs in the sample collected from East Creek.

The total aluminum concentrations measured in Woodfibre Creek and East Creek on July 3 (0.128 and 0.0955 mg/L, respectively) were within the range observed in the pre-construction baseline monitoring program (0.0379 to 0.294 mg/L for Woodfibre Creek and 0.0158 to 0.264 mg/L for East Creek) and within ranges observed at the background stations for Woodfibre and East Creek (0.0428 to 0.250 mg/L for Woodfibre Creek and 0.0299 to 0.411 mg/L for East Creek).

The dissolved copper concentration measured in East Creek on July 3 (0.00053 mg/L) was also within the range observed in the pre-construction baseline monitoring program (0.00020 to 0.00105 mg/L) and within the range observed at the background station for East Creek (<0.00020 to 0.00137 mg/L).

The fluoride concentration measured in East Creek on July 3 (0.34 mg/L) was above the maximum value observed in the pre-construction baseline monitoring program (<0.1 mg/L) and above the range observed at the background station for East Creek (<0.020 to 0.028 mg/L; Table 4). Potential sources of fluoride to East Creek have been previously determined to originate from upstream of the LNG facility construction area and not from the Woodfibre LNG facility construction project (as discussed in Report #115).

Table 4:
Summary of Parameters Exceeding WQGs and Above Baseline Ranges for East Creek
Station SW-04 for Analytical Results Available at the Time of Reporting

Parameter	Units	WQG ¹	N	N >WQG	Commentary
Fluoride	mg/L	0.12	1	1	Fluoride measured in East Creek (SW-04) on July 3 (0.34 mg/L) was 2.8 times greater than the WQG. The fluoride concentration was 3.4 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (<0.1 mg/L). Similar observations were recently noted in Reports #113 and #119 and the source of fluoride in East Creek was determined to have originated from upstream of the LNG facility construction area, not from the Woodfibre LNG facility construction project (as discussed in Report #115).

N = number of samples.

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal (ECCC) WQGs.

3.7 Marine Water Receiving Environment

Analytical results and field measurements were available at the time of reporting for marine water samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on July 9 (stations IDZ-E1, IDZ-E2 and WQR1), as discussed in Reports #122. The analytical results, field parameters, and WQGs are summarized in Appendix E.

Parameter concentrations met WQGs except dissolved oxygen and total boron in some samples (Appendix E; Table E-1 and Table E-2). Dissolved oxygen ranged from 5.70 to 6.88 mg/L and was below the lower limit of the WQG (8 mg/L) in all samples collected at 2 m above the seafloor on July 9. Total boron was above the WQG (1.2 mg/L) and ranged from 2.59 to 2.73 mg/L in all marine water samples collected at 2 m above the seafloor.

Low concentrations of dissolved oxygen and elevated concentrations of total boron are indicative of influence from the deeper saline waters in the northern basin of Howe Sound and are a natural condition of marine water at the WDA monitoring stations. The dissolved oxygen and total boron concentrations observed at the IDZ monitoring stations are within concentration ranges that have been observed in the pre-construction baseline monitoring program (2.44 to 9.42 mg/L for dissolved oxygen and 1.47 to 8.38 mg/L for total boron) and within ranges observed at marine reference stations for dissolved oxygen (2.44 to 12.95 mg/L) and total boron (1.90 to 8.38 mg/L).

Chronic toxicity test results for marine receiving environment samples collected May 26 (as discussed in Report #116) and June 15 (as discussed in Report #119) were available at the time of reporting. Marine water samples were tested for chronic toxicity to inland silverside (fish) and echinoderm (invertebrate). All chronic toxicity tests were conducted using 100% (undiluted) marine water collected from 0.5 m below the surface at stations IDZ-E1, IDZ-E2, IDZ-W1,

IDZ-W2, and marine reference stations WQR1 and WQR2 in the receiving environment of Howe Sound. Salinity adjustment was made prior to testing as per standard test protocol.

The May 26 chronic toxicity test results for inland silverside showed no statistically significant differences between the marine samples and laboratory controls for any of the endpoints tested for inland silverside. The June 15 chronic toxicity test results for echinoderm showed a statistically significant difference in fertilization rate in samples collected from station IDZ-E1 and marine reference station WQR1 relative to the laboratory controls.

Analytical results of water samples collected from the marine receiving environment in tandem with the June 15 toxicity samples show that water quality parameter concentrations met WQGs except for dissolved oxygen and total boron in some samples (Appendix G; Report #120). There is no clear link between water quality and chronic effect on the echinoderm test species that was observed in the IDZ and reference locations. Considering that the June 15 reference station results showed inhibition of echinoderm fertilization rate similar to the IDZ station results, and that some reference station samples collected in 2025 also showed similar effects, it is inferred that there is a natural condition in the Howe Sound marine water collected at 0.5 m depth that periodically induces a chronic effect (*i.e.*, inhibition of fertilization rate) to echinoderm that is not attributable to project influence.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 5). The evaluation includes a review of field and lab QC, completeness of the weekly report (*e.g.*, pending data), completeness of the monitoring program, confirmation of record keeping, evaluation of compliance and review of water management activities. Items flagged for follow-up in Section 3 are also tracked in Table 5. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 5:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (July 12 - 18, Report #123)		
Authorized Works and Monitoring Program Evaluation	The authorized works and monitoring stations have not been established as described in PE-111578.	The PE-111578 authorized works for water management have been constructed, except for some of the conveyance ditches, which require completion of site grading prior to installation. Sumps, pumps and hoses are used for temporary conveyance until the ditches are completed. Outfall 11 (OUT-11) has been constructed but is currently not in use. This item remains open.
Report #123: Potential Project Influence	Fluoride at East Creek above WQG and the baseline concentration ranges.	Fluoride measured in East Creek (SW-04) on July 3 (0.34 mg/L) was 2.8 times greater than the WQG. The fluoride concentration was 3.4 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (<0.1 mg/L). Similar observations were recently noted in Report #113 and #119, and the source of fluoride in East Creek was determined to have originated from upstream of the LNG facility construction area, not from the Woodfibre LNG facility construction project (as discussed in Report #115). This item is closed.
Report #123: WWTP Performance Evaluation	Total copper, selenium and zinc above MDOs.	The total selenium concentration in the sample collected at WWTP-E-OUT on July 10 was above the MDO (0.0020 mg/L). Total copper and total zinc concentrations were also above the MDOs (0.0043 and 0.0133 mg/L, respectively) in the WWTP-E-OUT sample collected July 13. The WWTP treatment performance for these parameters will be evaluated through the end of July 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #123: Pending Data	Analytical results not reported.	Analytical results for contact and treated water samples collected July 15 as well as total mercury and methylmercury results for contact and treated water samples collected July 13 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #112: WWTP Performance Evaluation	Total mercury and methylmercury above the MDO.	This item was first noted in Report #112. The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT from April 15 through June 8 were above the MDOs. Total mercury and methylmercury concentrations collected at WWTP-E-OUT on June 25 met the MDO. Increased incidence of total mercury and methylmercury concentrations above the MDOs in site contact waters occurred in late April 2025 through September 2025, coinciding with warmer and drier weather relative to winter months. In 2025, possible project related sources had been evaluated, and upstream contact water monitoring data indicate methylmercury was elevated in the Hydrovac sump. Excess water from this sump is directed to the East WWTP. This production of methylmercury is attributed to microbially mediated methylation of total mercury in the bottom sediments of water management sumps, and transfer from the sump sediments to the water column. Enhanced monitoring for methylmercury was implemented in May 2026. This item remains open.
Report #116: Pending Data	Analytical results not reported.	Acute toxicity and chronic toxicity results for receiving environment samples collected May 25 and 26, respectively, are included in Report #123. This item is closed.
Report #116: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	This item was first noted in Report #116. Hexavalent chromium concentrations in the samples collected at WWTP-E-OUT on May 21, June 16, 25, July 2, 10 and 13 were above the MDO (0.0015 mg/L). Hexavalent chromium concentrations met the MDO in the WWTP-E-OUT samples collected May 25, June 3, and June 8. The WWTP treatment performance for hexavalent chromium will be evaluated through the end of July 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #118: WWTP Performance Evaluation	Nitrate above the MDO.	This item was first noted in Report #118. Nitrate was above the MDO in the WWTP-E-OUT samples collected June 3, 8, 16, 25, July 2, 10 and 13. East Sedimentation Pond and East WWTP influent samples collected at SP-E-IN and WWTP-E-IN, respectively, on these days also had elevated concentrations of nitrate. As of mid July, an ongoing source of nitrate has not been identified. Concrete accelerants contain nitrate, and it is possible the nitrate originated from the use of accelerant during placement of concrete. The concentration of nitrate in the East and West Sedimentation Ponds is trending lower. Therefore, it is speculated the input of nitrate to the East Sedimentation Pond detected early June is a singular event that is not on-going. This item remains open.
Report #119: Pending Data	Analytical results not reported.	Previously pending chronic toxicity results for receiving environment samples collected June 15 are included in Report #123. Dioxins and furans results for contact and treated water samples collected June 14 and total mercury and methylmercury results for contact and treated water samples collected June 16 are pending and will be included in future weekly reports when available. This item remains open.
Report #120: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for contact and treated water samples collected June 25 are included in Report #123. This item is closed.
Report #121: Pending Data	Analytical results not reported.	Previously pending field parameters and analytical results for receiving environment samples collected July 3 are included in Report #123. Field parameters and analytical results for receiving environment samples collected July 2 as well as total mercury, methylmercury, dioxins and furans results for contact, treated water and receiving environment samples collected July 2 and 3 are pending and will be included in future weekly reports when available. This item remains open.
Report #122: Pending Data	Analytical results not reported.	Previously pending field measurements and analytical results for receiving environment samples collected July 9 as well as analytical results for contact and treated water samples collected July 10 and 11 are included in Report #123. Total mercury, methylmercury, dioxins and furans results for these samples are pending and will be included in future weekly reports when available. This item remains open.

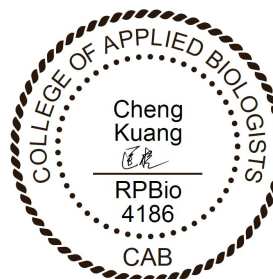
Notes:
Result QA/QC screening includes the evaluation of field and lab QC results, comparison of total and dissolved metal results and review for modified detection limits.
Pending data are outstanding results from monitoring samples reported in the current or previous weekly reports.
Authorized works and monitoring program evaluation is an assessment of the completeness of the authorized works and monitoring program compared to PE-111578 specified or implied requirements.
WWTP performance evaluation is an assessment of WWTP effluent quality compared to operational MDOs.
Data QC indicates an evaluation of data trends or inter-parameter relationships that suggest a test result may not be representative of water quality at the time of monitoring.
Non-compliant discharge indicates exceedance of a discharge limit or a discharge that bypasses the sedimentation pond discharge location.
Potential project influence is an assessment that water quality at creek and Howe Sound baseline stations are above the baseline concentration range and may indicate project influence at these stations.

4. Closure

This weekly report is a desktop review by Lorax of the PE-111578 discharge and compliance monitoring program records, reports and results provided by Woodfibre LNG and prime contractor McDermott International and their sub-contractors. The records reviewed and analyzed by Lorax include ALS Environmental laboratory test reports and site reports (from Roe Environmental, LB LNG, McDermott and Woodfibre LNG). Verbal or electronic communications between Lorax, and Roe Environmental, LB LNG, McDermott, and Woodfibre LNG staff are conducted as needed to confirm the information presented in this report.

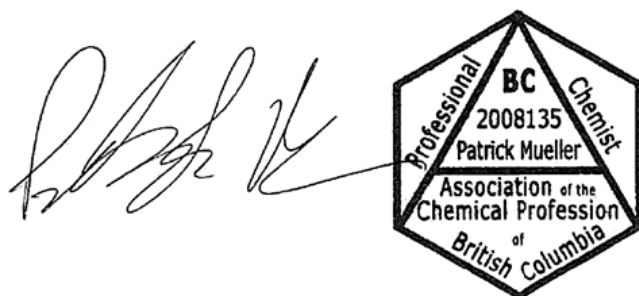
Regards,

LORAX ENVIRONMENTAL SERVICES LTD.



**Holly Pelletier, B.Sc., P.Geo.
Environmental Geoscientist**

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Environmental Scientist**



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Environmental Chemist**

Lorax Environmental Services Ltd. EGBC Permit to Practice Number: 1001840

Appendix A: Figures and Site Images



World Imagery: District of Squamish. Additional imagery provided by McDermott International captured June 3rd, 2026.

LEGEND - Freshwater Monitoring Station - Marine Water Monitoring Station - Clean Water Diversion Discharge Station - Sedimentation Pond Monitoring Stations (Water Quality) - Wastewater Treatment Plant (WWTP) - Certified Project Area	- Watercourse - Non-Contact Ditch - Culvert / Outfall / Pipeline - Non-Contact Water Transfer Hose - Bathymetry Contour (Major: 50m) - Bathymetry Contour (Minor: 10m)	DATE SAVED: Jul 24, 2026		Coordinate System: NAD 1983 UTM Zone 10N Projection: Transverse Mercator Datum: North American 1983 Units: Metre Scale: 1:6,000	CLIENT: 	PROJECT: Woodfibre LNG Project Construction Phase	
		DRAWN BY: DM				TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (July 18, 2026)	
		REVIEWED: PM				PROJECT #: A825-1	
		VERSION: 1				FIGURE: 1	

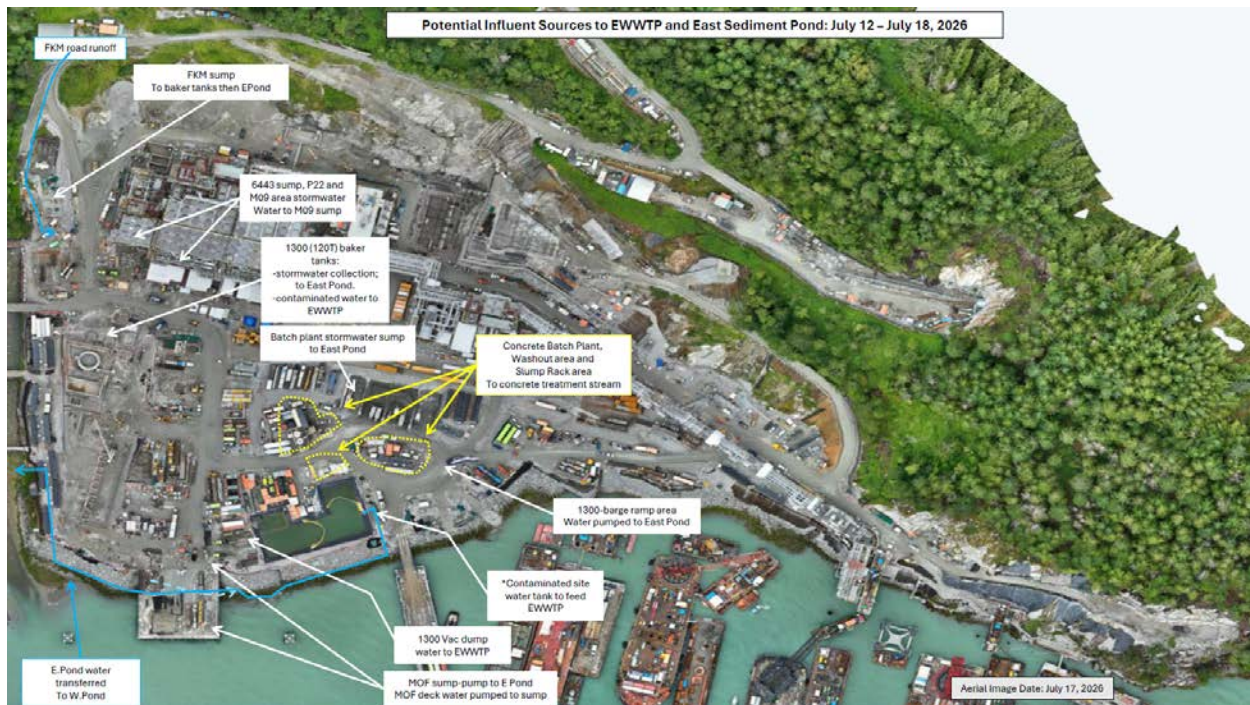


Figure 2: East Catchment contact water management facilities (July 12 - 18).

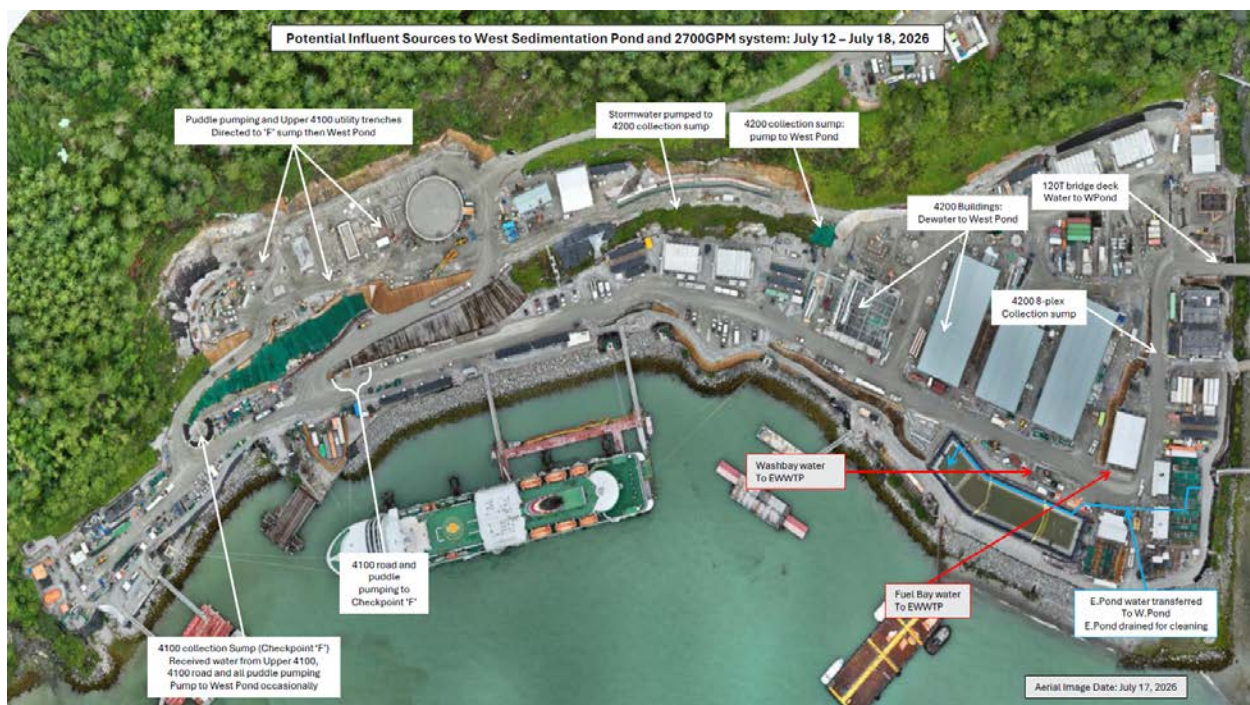


Figure 3: West Catchment contact water management facilities (July 12 - 18).



Figure 4: Aerial view of the East Sedimentation Pond (July 17, 2026). The East WWTP is located on the left side of the pond.



Figure 5: Aerial view of the West Sedimentation Pond (July 17, 2026).

Appendix B:
East Catchment Monitoring Results

Table B-1:
East WWTP Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station	Station	Station	Station
					WWTP-E-IN	WWTP-E-IN	WWTP-E-OUT	WWTP-E-OUT
		Influent	Influent		Effluent	Effluent		
		WWTP-E-IN	WWTP-E-IN		WWTP-E-OUT	WWTP-E-OUT		
VA26B8267-002	VA26B8428-002	VA26B8267-003	VA26B8428-005					
2026-07-10 8:53	2026-07-13 9:42	2026-07-10 15:01	2026-07-13 15:57					
General Parameters								
pH - Field	pH units	- ²	-	5.5 - 9.0	8.3	7.7	6.8	6.7
Specific Conductivity - Field	µS/cm	-	-	-	2405	2563	2781	2890
Temperature - Field	°C	-	-	-	23.4	21.9	22.5	22.4
Salinity - Field	ppt	-	-	-	1.24	1.32	1.44	1.5
Turbidity - Field	NTU	-	-	-	5.23	5.44	1.00	2.27
TSS	mg/L	-	-	25 or 75 ⁵	<3.0	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.95	9.81	6.37	7.76
Total Hardness	mg/L	-	-	-	32.5	108	27.6	24.8
Dissolved Hardness	mg/L	-	-	-	32.6	123	28.0	28.9
Anions and Nutrients								
Sulphate	mg/L	-	-	-	547	698	777	864
Chloride	mg/L	-	-	-	27.7	26.4	28.7	25.7
Fluoride	mg/L	-	1.5	-	0.531	0.479	0.437	<0.400
Ammonia (N-NH ₃)	mg/L	0.62-9.4 ³	4.2-62 ³	-	0.0232	0.0421	0.048	0.0112
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0379	0.0412	<0.0200	<0.0200
Nitrate (N-NO ₃)	mg/L	3.7	339	-	5.26	4.26	4.54	4.11
Total Organic Carbon (TOC)	mg/L	-	-	-	2.51	3.02	3.16	1.89
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.45	3.18	2.54	2.01
Total Metals								
Aluminum, total (T-Al)	mg/L	-	-	-	0.375	0.304	0.0216	0.128
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00132	0.00161	0.00126	0.00193
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00116	0.00122	0.00095	0.00091
Barium, total (T-Ba)	mg/L	-	-	-	0.0125	0.0344	0.00469	0.0075
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000040	<0.000040	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.237	0.214	0.222	0.207
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.000100	<0.0000950	<0.000122	<0.000145
Chromium, total (T-Cr)	mg/L	-	-	-	0.0039	0.00758	0.0106	0.00246
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00274	0.00175	0.0012	0.00641
Iron, total (T-Fe)	mg/L	-	-	-	0.224	0.163	<0.020	<0.020
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000261	0.000162	0.000105	0.000429
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.014	0.0283	0.00227	0.00473
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.222	0.248	0.294	0.211
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	<0.00100	<0.00100	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.00062	0.00121	0.00234	0.00133
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000020	<0.000020	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000020	<0.000020	<0.000020	<0.000020
Uranium, total (T-U)	mg/L	-	-	-	0.0927	0.0802	0.0326	0.0289
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00252	0.00273	0.00182	0.00218
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0060	<0.0060	<0.0060	0.0327
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00323	0.00684	0.0114	0.00207
Dissolved Metals								
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000500	<0.0000450	<0.0000750	<0.0000550
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00020	<0.00020	<0.00020	<0.00020
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00118	0.00134	0.00133	0.00171
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.020	<0.020	<0.020	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000100	<0.000100	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00357	0.0213	0.00237	0.00446
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00100	<0.00100	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.177	0.782	0.22	0.279
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00206	0.00222	0.0017	0.00193
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0021	0.0033	0.0111	0.0069
Polycyclic Aromatic Hydrocarbons (PAHs)								
Acenaphthene	mg/L	0.006	-	-	-	-	-	-
Acridine	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	-	-	-
Chrysene	mg/L	0.0001	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	0.012	-	-	-	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-	-	-	-
Naphthalene	mg/L	0.001	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-
Quinoline	mg/L	-	-	-	-	-	-	-
Volatile Organic Compounds (VOCs)								
Benzene	mg/L	0.59	6.0	-	-	-	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-	-	-	-
Total Xylenes	mg/L	0.07	1.0	-	-	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-	-	-

Notes:
East catchment influents and East WWTP effluent were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (July 12 - 18).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27G and 27H in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-2:
East Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station SP-E-IN	Station SP-E-IN
					Influent	Influent
					SP-E-IN	SP-E-IN
		VA26B8267-001 2026-07-10 8:24	VA26B8428-001 2026-07-13 10:50			
General Parameters						
pH - Field	pH units	- ²	-	5.5 - 9.0	8.1	7.3
Specific Conductivity - Field	µS/cm	-	-	-	2331	2451
Temperature - Field	°C	-	-	-	22.8	21.5
Salinity - Field	ppt	-	-	-	1.2	1.26
Turbidity - Field	NTU	-	-	-	3.22	4.93
TSS	mg/L	-	-	25 or 75 ⁵	<3.0	6.9
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.44	8.46
Total Hardness	mg/L	-	-	-	28.5	97.2
Dissolved Hardness	mg/L	-	-	-	26.7	113
Anions and Nutrients						
Sulphate	mg/L	-	-	-	501	658
Chloride	mg/L	-	-	-	27.7	27.4
Fluoride	mg/L	-	1.5	-	0.547	0.56
Ammonia (N-NH ₃)	mg/L	0.97-5.9 ³	6.4-40 ³	-	0.047	0.0292
Nitrite (N-NO ₂)	mg/L	-	-	-	0.107	0.0408
Nitrate (N-NO ₃)	mg/L	3.7	339	-	4.51	3.72
Total Organic Carbon (TOC)	mg/L	-	-	-	3.46	2.8
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.94	3.16
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.242	0.391
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00131	0.00156
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00146	0.00141
Barium, total (T-Ba)	mg/L	-	-	-	0.00836	0.0332
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000040	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.268	0.218
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000950	<0.000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00301	0.00676
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00020	0.00021
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00121	0.00154
Iron, total (T-Fe)	mg/L	-	-	-	0.126	0.161
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000117	0.000121
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0149	0.0456
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.219	0.225
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000717	0.00128
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000020	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000020	<0.000020
Uranium, total (T-U)	mg/L	-	-	-	0.11	0.0837
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.0028	0.00294
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	<0.0060	<0.0060
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00282	0.00587
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000900	<0.0000450
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00020	<0.00020
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.0009	0.00113
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.020	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00581	0.0424
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.149	0.735
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00245	0.00259
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0020	<0.0020
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	-
Acridine	mg/L	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	-
Chrysene	mg/L	0.0001	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-
Fluorene	mg/L	0.012	-	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-	-
Naphthalene	mg/L	0.001	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-
Quinoline	mg/L	-	-	-	-	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-	-
Total Xylenes	mg/L	0.07	1.0	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-

Notes:
East catchment influents and East WWTP effluent were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceeded the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (July 12 - 18).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27G and 27H in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-3:
East Catchment Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					Total Methylmercury	Total Mercury
Unit					µg/L	µg/L
Lowest Applicable Guideline ¹					0.0001 ²	0.0018 - 0.0019 ^{3,4}
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-E-IN	Influent	SP-E-IN	VA26B6710-001	2026-06-25	<u>0.00310</u>	<u>0.0567</u>
WWTP-E-IN	Influent	WWTP-E-IN	VA26B6710-002	2026-06-25	<0.000080	0.00771
COMB-WWTP-E-IN	Influent	COMB-WWTP-E-IN	VA26B6710-005	2026-06-25	<u>0.000161</u>	<u>0.158</u>
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26B6710-008	2026-06-25	0.000067	0.0125

Notes:
East catchment influents and effluents were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine aquatic life.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² From BC Ambient Water Quality Guidelines for Mercury Overview Report. The methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) is indicated as a WQG for the protection of wildlife and is set at a concentration that protects fish from mercury bioaccumulation to a level that may harm wildlife that consume fish.
³ CCME guideline for total mercury = 0.016 µg/L.
⁴ When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 µg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result

Table B-4:
East Catchment Field Measurements Collected During the Monitoring Period (July 12 - 18).

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pH	Specific Conductivity	Visibility of Sheen
Unit			°C	mg/L	ppt	NTU	mg/L	s.u.	µS/cm	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 ⁶	5.5 - 9.0	-	-
Lowest Applicable Guideline ¹			-	≥8	-	-	- ²	- ²	-	-
Station ID	Water Type	Date								
Influent ⁴										
SP-E-IN	Influent	2026-07-12 11:45	23.7	8.38	1.36	14.63	13.9	7.6	2638	No
SP-E-IN	Influent	2026-07-13 10:50	21.5	8.46	1.26	4.93	6.7	7.3	2451	No
SP-E-IN	Influent	2026-07-14 13:43	26.2	9.18	1.35	4.78	6.6	7.56	2615	No
SP-E-IN	Influent	2026-07-15 14:53	25.5	10.55	1.42	5.47	7.1	7.2	2745	No
SP-E-IN	Influent	2026-07-16 11:29	23.8	9.98	1.44	5.30	7.0	7.5	2785	No
SP-E-IN	Influent	2026-07-17 17:10	23.4	10.11	1.58	4.98	6.7	8.2	3033	No
SP-E-IN	Influent	2026-07-18 11:41	22.3	8.89	1.5	4.39	6.3	7.4	2890	No
WWTP-E-IN	Influent	2026-07-13 9:42	21.9	9.81	1.32	5.44	7.1	7.7	2563	No
WWTP-E-IN	Influent	2026-07-15 14:45	24.9	11.19	1.35	5.17	6.9	8.0	2613	No
WWTP-E-IN	Influent	2026-07-18 11:27	22.4	10.35	1.39	4.56	6.4	7.7	2678	No
Effluent ⁵										
WWTP-E-OUT	Effluent	2026-07-13 10:06	20.7	<u>7.16</u>	1.14	2.07	4.5	7.1	2226	No
WWTP-E-OUT	Effluent	2026-07-13 15:57	22.4	<u>7.76</u>	1.5	2.27	4.7	6.7	2890	No
WWTP-E-OUT	Effluent	2026-07-15 14:48	24.1	<u>3.17</u>	2.31	3.04	5.3	6.4	4342	No
WWTP-E-OUT	Effluent	2026-07-18 11:24	20.9	8.36	1.39	3.14	5.3	7.1	2671	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (July 12 - 18). Results above screening values are highlighted for comparative purposes.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² The WQG was not evaluated for parameters with discharge limits.
³ TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
⁴ Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field measurements for station WWTP-E-IN were not collected on July 12, 14, 16 and 17 as the East WWTP was not operational at the time of monitoring.
⁵ There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (July 12 - 18), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for station WWTP-E-OUT were not collected on July 12, 14, 16 and 17 as the East WWTP was not operational at the time of monitoring.
⁶ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-5:
East Catchment Daily Discharge Volumes for the Monitoring Period (July 12 - 18).

	East Sedimentation Pond Effluent	Transfer to West Sedimentation Pond	East WWTP Treated Effluent (Station WWTP-E-OUT) ²	Discharge to Howe Sound (Station SP-E-OUT)
Units	m ³	m ³	m ³	m ³
PE-111578 Discharge Limit	-	-	1,100	- ¹
Date				
2026-07-12	0	0	133	0
2026-07-13	0	0	414	0
2026-07-14	0	0	28	0
2026-07-15	0	0	143	0
2026-07-16	0	0	0	0
2026-07-17	0	0	165	0
2026-07-18	0	0	512	0

Notes:
Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.
¹ As noted in PE-111578 Condition 2.1.4, the annual average authorized discharge rate from the East Sedimentation Pond to Howe Sound was set to 650 m³/day for the purpose of calculating discharge fees as required by the Permit and Approval Fees and Charges Regulation. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.
² East WWTP treated effluent was recirculated to the East Sedimentation Pond.

Appendix C:
West Catchment Monitoring Results

Table C-1:
West 2700GPM TSS Settling System Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station 2700GPM-IN	Station W2700T1-OUT	Station W2700T4-OUT
					Influent	Effluent	Effluent
					2700GPM-IN	W2700T1-OUT	W2700T4-OUT
		VA26B8315-002	VA26B8315-003		VA26B8315-004		
Long Term		Short Term	2026-07-11 11:47	2026-07-11 11:42	2026-07-11 12:35		
General Parameters							
pH - Field	pH units	- ²	-	5.5 - 9.0	8.3	8.1	8.2
Specific Conductivity - Field	µS/cm	-	-	-	895	897	895
Temperature - Field	°C	-	-	-	21.2	21.4	21.6
Salinity - Field	ppt	-	-	-	0.44	0.44	0.44
Turbidity - Field	NTU	-	-	-	10.93	6.8	6.27
TSS	mg/L	-	-	25 or 75 ⁵	5.1	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.09	8.24	9.89
Total Hardness	mg/L	-	-	-	48.8	48.8	47
Dissolved Hardness	mg/L	-	-	-	46.8	46.3	45.9
Anions and Nutrients							
Sulphate	mg/L	-	-	-	177	177	175
Chloride	mg/L	-	-	-	11.7	20.2	11.6
Fluoride	mg/L	-	1.5	-	0.2	0.219	0.203
Ammonia (N-NH ₃)	mg/L	0.62-0.97 ³	4.2-6.4 ³	-	0.114	0.0073	0.133
Nitrite (N-NO ₂)	mg/L	-	-	-	0.124	<0.0050	0.118
Nitrate (N-NO ₃)	mg/L	3.7	339	-	2.91	3.11	2.88
Total Organic Carbon (TOC)	mg/L	-	-	-	4.93	5.03	4.13
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	4.89	4.77	3.81
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	0.571	0.392	0.377
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00108	0.00109	0.00105
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00197	0.00198	0.00212
Barium, total (T-Ba)	mg/L	-	-	-	0.00573	0.0045	0.00269
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.022	0.022	0.018
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300	<0.0000250	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.0002	0.00013	0.00014
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00329	0.00223	0.00636
Iron, total (T-Fe)	mg/L	-	-	-	0.39	0.207	0.237
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000945	0.00029	0.000817
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0234	0.0105	0.0287
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0785	0.0747	0.0709
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000189	0.000178	0.000175
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	0.000013	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000042	0.00003	0.000061
Uranium, total (T-U)	mg/L	-	-	-	0.00955	0.00961	0.00898
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.0022	0.00195	0.00217
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0125	0.0051	0.0084
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000400	<0.0000400	<0.0000350
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00010	<0.00010	<0.00010
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00192	0.00201	0.00256
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.035	0.027	0.043
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000198	0.000091	0.000162
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00699	0.00152	0.0176
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.101	0.102	0.0866
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.0017	0.00163	0.00173
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0041	0.0034	0.0026
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	-	<0.000010	-
Acridine	mg/L	-	-	-	-	<0.000010	-
Anthracene	mg/L	-	-	-	-	<0.000010	-
Benz(a)anthracene	mg/L	-	-	-	-	<0.000010	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	<0.0000050	-
Chrysene	mg/L	0.0001	-	-	-	<0.000010	-
Fluoranthene	mg/L	-	-	-	-	<0.000010	-
Fluorene	mg/L	0.012	-	-	-	<0.000010	-
1-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010	-
2-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010	-
Naphthalene	mg/L	0.001	-	-	-	<0.000050	-
Phenanthrene	mg/L	-	-	-	-	<0.000020	-
Pyrene	mg/L	-	-	-	-	<0.000010	-
Quinoline	mg/L	-	-	-	-	<0.000050	-
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.59	6.0	-	-	<0.00050	-
Ethylbenzene	mg/L	0.07	1.0	-	-	<0.00050	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	<0.00050	-
Styrene	mg/L	-	-	-	-	<0.00050	-
Toluene	mg/L	0.03	3.0	-	-	<0.00040	-
Total Xylenes	mg/L	0.07	1.0	-	-	<0.00050	-
Chlorobenzene	mg/L	0.025	-	-	-	<0.00050	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	<0.00050	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment did not discharge during the monitoring period (July 12 - 18).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27G and 27H in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-2:
West Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		PE-111578 Discharge Limit	Station
					SP-W-IN
					Influent
		SP-W-IN			
VA26B8315-001					
2026-07-11 12:16					
General Parameters					
pH - Field	pH units	- ²	-	5.5 - 9.0	8.3
Specific Conductivity - Field	µS/cm	-	-	-	898
Temperature - Field	°C	-	-	-	21.9
Salinity - Field	ppt	-	-	-	0.44
Turbidity - Field	NTU	-	-	-	9.11
TSS	mg/L	-	-	25 or 75 ⁵	14.9
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.82
Total Hardness	mg/L	-	-	-	49.1
Dissolved Hardness	mg/L	-	-	-	46.0
Anions and Nutrients					
Sulphate	mg/L	-	-	-	177
Chloride	mg/L	-	-	-	11.8
Fluoride	mg/L	-	1.5	-	0.203
Ammonia (N-NH ₃)	mg/L	0.62 ³	4.2 ³	-	0.118
Nitrite (N-NO ₂)	mg/L	-	-	-	0.125
Nitrate (N-NO ₃)	mg/L	3.7	339	-	2.94
Total Organic Carbon (TOC)	mg/L	-	-	-	4.64
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	4.30
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.679
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	-	0.00107
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00204
Barium, total (T-Ba)	mg/L	-	-	-	0.00558
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.02
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	-	0.00057
Cobalt, total (T-Co)	mg/L	-	-	-	0.00022
Copper, total (T-Cu)	mg/L	- ²	- ²	0.0043	0.00174
Iron, total (T-Fe)	mg/L	-	-	-	0.49
Lead, total (T-Pb)	mg/L	- ²	- ²	0.0035	0.000369
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0282
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0748
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000146
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000044
Uranium, total (T-U)	mg/L	-	-	-	0.00947
Vanadium, total (T-V)	mg/L	- ²	-	0.0081	0.00239
Zinc, total (T-Zn)	mg/L	- ²	- ²	0.0133	0.0033
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000350
Cobalt, dissolved (D-Co)	mg/L	-	-	-	<0.00010
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00134
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.034
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000079
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0082
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0976
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00169
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	-
Acridine	mg/L	-	-	-	-
Anthracene	mg/L	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-
Chrysene	mg/L	0.0001	-	-	-
Fluoranthene	mg/L	-	-	-	-
Fluorene	mg/L	0.012	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-
Naphthalene	mg/L	0.001	-	-	-
Phenanthrene	mg/L	-	-	-	-
Pyrene	mg/L	-	-	-	-
Quinoline	mg/L	-	-	-	-
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.59	6.0	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-
Styrene	mg/L	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-
Total Xylenes	mg/L	0.07	1.0	-	-
Chlorobenzene	mg/L	0.025	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment did not discharge during the monitoring period (July 12 - 18).
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
² The WQG was not evaluated for parameters with discharge limits.
³ The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27G and 27H in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
⁵ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-3:
West Catchment Field Measurements Collected During the Monitoring Period (July 12 - 18).

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pH	Specific Conductivity	Visibility of Sheen
Unit			°C	mg/L	ppt	NTU	mg/L	s.u.	µS/cm	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 ⁶	5.5 - 9.0	-	-
Lowest Applicable Guideline ¹			-	≥8	-	-	- ²	- ²	-	-
Station ID	Water Type	Date								
Influent ⁴										
SP-W-IN	Influent	2026-07-12 11:03	21.1	8.66	0.44	7.38	8.5	8.0	884	No
SP-W-IN	Influent	2026-07-13 12:48	23.6	10.41	0.74	13.88	13.4	9.0	1466	No
SP-W-IN	Influent	2026-07-14 12:58	25.3	10.48	0.43	16.35	15.2	8.2	885	No
SP-W-IN	Influent	2026-07-15 10:34	22.5	8.50	0.45	10.50	10.8	8.1	907	No
SP-W-IN	Influent	2026-07-16 10:30	21.6	8.71	0.01	10.04	10.5	8.3	15	No
SP-W-IN	Influent	2026-07-17 10:03	20.2	<u>7.99</u>	0.43	9.91	10.4	7.3	872	No
SP-W-IN	Influent	2026-07-18 10:21	21.3	8.26	0.44	10.80	11.1	8.1	894	No
2700GPM-IN	Influent	2026-07-12 10:49	21.8	9.20	0.44	9.58	10.1	8.3	896	No
2700GPM-IN	Influent	2026-07-15 10:17	23.0	9.45	0.44	8.49	9.3	8.8	900	No
2700GPM-IN	Influent	2026-07-16 10:35	23.3	8.60	0.44	9.13	9.8	8.5	903	No
2700GPM-IN	Influent	2026-07-18 10:34	20.8	8.78	0.44	8.04	9.0	8.2	889	No
Effluent ⁵										
-	-	-	-	-	-	-	-	-	-	-

Notes:
West catchment influents for July 12 - 18 were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in **orange text** exceed the PE-111578 West Sedimentation Pond Discharge Limit.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² The WQG was not evaluated for parameters with discharge limits.
³ TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
⁴ Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
⁵ As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent was not discharged to Howe Sound at the authorized discharge location (SP-W-OUT) during the monitoring period (July 12 - 18); therefore, daily field parameters were not collected from station SP-W-OUT on July 12 - 18.
⁶ The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-4:
West Catchment Daily Discharge Volumes for the Monitoring Period (July 12 - 18).

	West Sedimentation Pond Effluent	West TSS Settling System (2700GPM) Clarified Effluent (Station 2700GPM-OUT) ³	Water Reclaimed for Construction Purposes (Station 2700GPM-OUT)	West WWTP Treated Effluent ¹ (Station WWTP-W-OUT)	Discharge to Howe Sound (Station SP-W-OUT)
Unit	m ³	m ³	m ³	m ³	m ³
PE-111578 Discharge Limit	-	-	-	120	- ²
Date					
2026-07-12	0	228	0	0	0
2026-07-13	0	0	0	0	0
2026-07-14	0	0	0	0	0
2026-07-15	0	394	0	0	0
2026-07-16	0	357	0	0	0
2026-07-17	0	290	0	0	0
2026-07-18	0	120	0	0	0

Notes:
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
¹ The West WWTP is not being operated therefore discharges are not expected from this facility

Appendix D:
Freshwater Receiving Environment Monitoring
Results

Table D-1:
Summary of Freshwater Water Quality Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ^{1,2}		Station SW-01	Station SW-04
				Woodfibre Creek Lower Reach	East Creek Lower Reach
				SW-01	SW-04
				VA26B7467-001	VA26B7467-002
		Long Term	Short Term	2026-07-03 9:15	2026-07-03 13:24
General Parameters					
pH - Field	pH units	6.5 - 9.0	-	6.51	7.23
Specific Conductivity - Field	µS/cm	-	-	8	193
Temperature - Field	°C	-	-	9.6	15.2
Salinity - Field	ppt	-	-	0	0.09
Turbidity - Field	NTU	-	-	0.92	1.82
TSS	mg/L	-	-	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	11.51	10.2
Total Hardness	mg/L	-	-	2.43	57.8
Dissolved Hardness	mg/L	-	-	2.44	65.0
Anions and Nutrients					
Sulphate ²	mg/L	128-218	-	0.43	15
Chloride	mg/L	120	600	0.52	18.8
Fluoride ²	mg/L	0.12	0.400-1.11	<0.020	<u>0.34</u>
Ammonia (N-NH ₃) ²	mg/L	1.78-1.86	16.9-25.7	<0.0050	<0.0050
Nitrite (N-NO ₂) ²	mg/L	0.0200-0.200	0.06-0.6	<0.0010	<0.0010
Nitrate (N-NO ₃)	mg/L	3	32.8	0.0338	0.0311
Total Organic Carbon (TOC)	mg/L	-	-	2.74	1.37
Total Inorganic Carbon (DOC)	mg/L	-	-	2.51	1.15
Total Metals					
Aluminum, total (T-Al) ²	mg/L	0.0338-0.0764	-	<u>0.128</u>	<u>0.0955</u>
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	0.00153
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010	0.00086
Barium, total (T-Ba)	mg/L	1	-	0.00163	0.0069
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010	0.018
Cadmium, total (T-Cd) ²	mg/L	0.000036-0.00010	0.00011-0.0012	<0.0000050	<0.0000100
Chromium, total (T-Cr)	mg/L	0.0025	-	<0.00050	<0.00050
Cobalt, total (T-Co) ²	mg/L	0.000389-0.000813	-	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050	<0.00050
Iron, total (T-Fe) ²	mg/L	0.0850-0.145	1	0.042	0.048
Lead, total (T-Pb)	mg/L	-	-	0.000065	<0.000050
Manganese, total (T-Mn)	mg/L	-	-	0.00114	0.0166
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.00028	0.0294
Nickel, total (T-Ni) ²	mg/L	0.0250	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010	0.00001
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000567	0.000291
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0025	-	<0.00050	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd) ²	mg/L	0.0000176-0.000141	0.0000380-0.000334	<0.0000050	<0.0000075
Cobalt, dissolved (D-Co) ²	mg/L	0.000389-0.000406	-	<0.00010	<0.00010
Copper, dissolved (D-Cu) ²	mg/L	0.000200-0.000207	0.000200-0.00126	<0.00020	<u>0.00053</u>
Iron, dissolved (D-Fe)	mg/L	-	-	0.022	<0.010
Lead, dissolved (D-Pb) ²	mg/L	0.00173-0.00198	-	<0.000050	<0.000050
Manganese, dissolved (D-Mn) ²	mg/L	0.165-0.245	0.985-4.11	0.0004	0.0149
Nickel, dissolved (D-Ni) ²	mg/L	0.000700-0.00130	0.00960-0.0109	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00307	0.0579
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050
Zinc, dissolved (D-Zn) ²	mg/L	0.00694-0.00723	0.00939-0.0257	<0.0010	0.0017
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.0058	-	<0.000010	<0.000010
Acridine	mg/L	0.003	-	<0.000010	<0.000010
Anthracene	mg/L	0.000012	-	<0.000010	<0.000010
Benz(a)anthracene	mg/L	0.000018	-	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010
Fluoranthene	mg/L	0.00004	-	<0.000010	<0.000010
Fluorene	mg/L	0.003	-	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
Naphthalene	mg/L	0.001	0.001	<0.000050	<0.000050
Phenanthrene	mg/L	0.0003	-	<0.000020	<0.000020
Pyrene	mg/L	0.00002	-	<0.000010	<0.000010
Quinoline	mg/L	0.0034	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.04	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.09	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	10	3.4	<0.00050	<0.00050
Styrene	mg/L	0.072	-	<0.00050	<0.00050
Toluene	mg/L	0.0005	-	<0.00040	<0.00040
Total Xylenes	mg/L	0.03	-	<0.00050	<0.00050
Chlorobenzene	mg/L	0.0013	-	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.0007	-	<0.00050	<0.00050

Notes:
Non-detect results are screened using the detection limit value. The lowest applicable guidelines are shown in the table; however, water quality data was screened to all applicable guidelines. Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of freshwater aquatic life. **Shaded** results exceed the applicable short-term water quality guideline for the protection of freshwater aquatic life.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² BC WQG or CWQG indicated to be variable are calculated from sample-specific measurements for temperature, field pH, total hardness and dissolved organic carbon (DOC) content.

Appendix E:
Marine Water Receiving Environment Monitoring
Results

Table E-1:
Summary of Marine Water Quality Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline ¹		Station IDZ-E1	Station IDZ-E1	Station IDZ-E1	Station IDZ-E2	Station IDZ-E2	Station IDZ-E2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				IDZ-E1-0.5	IDZ-E1-2m	IDZ-E1-SF	IDZ-E2-0.5	IDZ-E2-2m	IDZ-E2-SF
				VA26B8177-001	VA26B8177-002	VA26B8177-003	VA26B8177-004	VA26B8177-005	VA26B8177-006
		Long Term	Short Term	2026-07-09 13:01	2026-07-09 13:02	2026-07-09 13:06	2026-07-09 15:15	2026-07-09 15:21	2026-07-09 15:24
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	8.06	7.28	7.37	7.78	7.61	7.49
Specific Conductivity - Field	µS/cm	-	-	1441	4962	52080	1813	2374	50586
Temperature - Field	°C	-	-	14.8	14.6	9.8	15.2	14.9	10.8
Salinity - Field	ppt	Narrative ²	-	0.73	2.68	34.03	0.93	1.23	33.01
Turbidity - Field	NTU	Narrative ²	Narrative ²	11.25	9.09	1.99	10.29	9.5	1.76
TSS	mg/L	Narrative ²	Narrative ²	4.7	3.3	<2.0	4.7	3.8	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	10.41	10.57	<u>5.70</u>	10.5	10.64	<u>6.65</u>
Total Hardness	mg/L	-	-	119	403	6490	112	147	6160
Dissolved Hardness	mg/L	-	-	132	239	6740	115	185	6680
Anions and Nutrients									
Sulphate	mg/L	-	-	33	143	2080	<30	41	2020
Chloride	mg/L	-	-	354	1250	15800	324	429	15200
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH ₃)	mg/L	2-20 ³	13-135 ³	<0.0050	<0.0050	<0.0050	0.0147	<0.0050	0.0068
Nitrite (N-NO ₂)	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate (N-NO ₃)	mg/L	3.7	339	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	<0.50	0.8	0.97	0.66	<0.50	0.99
Dissolved Organic Carbon (DOC)	mg/L	-	-	0.68	<0.50	1.11	<0.50	0.74	1.19
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.252	0.254	0.0164	0.294	0.318	0.0147
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	<0.00040	0.00149	<0.00040	<0.00040	0.00137
Barium, total (T-Ba)	mg/L	-	-	0.0105	0.0104	0.0105	0.0107	0.0102	0.0103
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	<0.30	0.34	<u>2.69</u>	<0.30	<0.30	<u>2.59</u>
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	<0.000020	0.000068	<0.000020	<0.000020	0.000076
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000129	0.000128	0.000059	0.000134	0.000146	0.000051
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00105	0.00091	<0.00050	0.00124	0.00134	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.254	0.245	0.022	0.262	0.274	0.018
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.0106	0.00914	0.00397	0.0097	0.0102	0.00333
Molybdenum, total (T-Mo)	mg/L	-	-	0.00063	0.00113	0.00906	0.00067	0.00078	0.00854
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050	0.00088	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.00009	0.000246	0.00261	0.000088	0.000101	0.00247
Vanadium, total (T-V)	mg/L	0.005	-	0.00088	0.00091	0.00135	0.00096	0.00091	0.00121
Zinc, total (T-Zn)	mg/L	0.01	0.055	0.004	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	<0.000020	0.00006	<0.000020	<0.000020	0.000054
Cobalt, dissolved (D-Co)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000058
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00389	0.00371	0.00312	0.00334	0.00327	0.00315
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.168	0.298	6.01	0.152	0.226	6.38
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	0.00132	<0.00050	<0.00050	0.00131
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0014	0.0022	0.0012	<0.0010	0.0023	0.0015
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

Notes:
Results **underlined in bold italics** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
² Induced guidelines for change from background conditions arising from discharges to the aquatic environment. Salinity WQG was not evaluated. The water quality data presented in the table were collected when the site was not discharging, therefore the turbidity and TSS WQGs were not evaluated.
³ The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26G and 26H in BC WQG guidance document.
⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.

Table E-2:
Summary of Marine Water Quality Results Received at the Time of Reporting

Parameter	Unit	Lowest Applicable Guideline ¹		Reference Station WQR1	Reference Station WQR1	Reference Station WQR1
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				WQR1-0.5	WQR1-2m	WQR1-SF
		VA26B8177-007	VA26B8177-008	VA26B8177-009		
		Long Term	Short Term	2026-07-09 9:05	2026-07-09 9:11	2026-07-09 15:49
General Parameters						
pH - Field	pH units	7.0 - 8.7	-	7.94	7.79	7.30
Specific Conductivity - Field	µS/cm	-	-	748	996	51664
Temperature - Field	°C	-	-	13.5	13.8	14.2
Salinity - Field	ppt	Narrative ²	-	0.37	0.5	33.96
Turbidity - Field	NTU	Narrative ²	Narrative ²	10.43	9.96	4.62
TSS	mg/L	Narrative ²	Narrative ²	5.5	5.3	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	10.67	10.65	<u>6.88</u>
Total Hardness	mg/L	-	-	39.3	70.1	6610
Dissolved Hardness	mg/L	-	-	37.6	79	6980
Anions and Nutrients						
Sulphate	mg/L	-	-	<30	<30	2160
Chloride	mg/L	-	-	106	211	16300
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0
Ammonia (N-NH ₃)	mg/L	3.1-14 ³	21-94 ³	<0.0050	0.0059	0.0071
Nitrite (N-NO ₂)	mg/L	-	-	<0.10	<0.10	<0.10
Nitrate (N-NO ₃)	mg/L	3.7	339	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	<0.50	<0.50	0.93
Dissolved Organic Carbon (DOC)	mg/L	-	-	<0.50	<0.50	0.95
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	0.366	0.322	0.0198
Antimony, total (T-Sb)	mg/L	-	0.27 ⁴	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	<0.00040	0.0015
Barium, total (T-Ba)	mg/L	-	-	0.0115	0.0111	0.01
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	<0.30	<0.30	<u>2.73</u>
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	<0.000020	0.000079
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000158	0.000149	0.000062
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00101	0.00106	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.314	0.278	0.022
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.0112	0.0106	0.0032
Molybdenum, total (T-Mo)	mg/L	-	-	0.00033	0.00041	0.00919
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	<0.000050	0.000055	0.00276
Vanadium, total (T-V)	mg/L	0.005	-	0.00108	0.00095	0.00144
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	<0.000020	0.000081
Cobalt, dissolved (D-Co)	mg/L	-	-	<0.000050	<0.000050	0.000053
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.012	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00346	0.00336	0.0026
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.056	0.112	6.78
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	0.00138
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0010	<0.0010	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010
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Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050

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³ The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26G and 26H in BC WQG guidance document.

⁴ The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.