TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 27 Mar 2026**
From:	**Holly Pelletier and Cheng Kuang (Lorax)**	**Project #: A825-1**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #106 for March 15 – 21**	

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 #106) was prepared by Lorax and summarizes WDA monitoring conducted for the period of March 15 – 21. 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 #106 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 F 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 m^3/day (East WWTP) and 120 m^3/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 m^3/day of contact water and consists of six parallel treatment trains (Trains 1 to 6), each with an installed capacity of 2,450 m^3/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

Variable weather conditions were observed during the March 15 – 21 monitoring period, with precipitation recorded each day. The total precipitation amount during the monitoring period was 238.6 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
2026-03-15	10.2	7.8	0.8	Rain
2026-03-16	47.2	4.7	1.8	Rain
2026-03-17	34.8	9.3	4.4	Rain
2026-03-18	53.8	11.1	5.9	Rain
2026-03-19	64.8	10.5	6.4	Rain
2026-03-20	27.4	14	6.2	Rain
2026-03-21	0.4	11	3.7	Mix of Sun and Cloud

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

From March 15 – 21, the East Sedimentation Pond received water from the 6403 Sump, the M09 Sump, the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). A total of 1,352 m^3 of water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from March 15 – 21 (Appendix B, Table B-5).

Routine operation of the East WWTP continued during the monitoring period (March 15 – 21). Concrete contact water 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 (March 15 – 21). Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-5).

From March 15 – 21, the West Sedimentation Pond received water from the Area 4100 and Area 4200 Sumps, the East Sedimentation Pond as well as 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 (March 15 – 21) and either recirculated back to the pond or intermittently discharged to Howe Sound. A total of 25,969 m^3 of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT each day during the monitoring period (March 15 – 21). Clarified effluent was not reclaimed for construction use. Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond or discharged to Howe Sound are provided in Appendix C (Table C-6).

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 IDZ-W1, IDZ-W2, WQR2, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT, W2700T2-OUT, W2700T3-OUT, W2700T5-OUT, and W2700T6-OUT during the monitoring period (March 15 – 21). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (March 15 – 21) 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 catchment effluent compliance station (SP-E-OUT) as there was no discharge to Howe Sound from the East Sedimentation Pond during the monitoring period (March 15 – 21). 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 (March 15 – 21).

Table 2:
Summary of PE-111578 Monitoring Samples Collected March 15 – 21.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
March 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 Parameters.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
March 16, 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
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a SP-W-OUT sampling port and at the SP-W-OUT outfall structure	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
	W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		
	W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5		
	W2700T6-OUT	2700GPM TSS settling system at the outlet of Train 6		
	IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M
	IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
	IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
	IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
	IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
	IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
	WQR2-0.5	Reference site 2; 0.5 m below surface		
	WQR2-2m	Reference site 2; 2 m below surface		
	WQR2-SF	Reference site 2; 2 m above the seafloor		
March 17, 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.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
March 18, 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
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
March 19, 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.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P

Table 2 (continued): Summary of PE-111578 Monitoring Samples Collected March 15 – 21.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
March 20, 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.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
March 21, 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.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	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.
M_2 – 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 #106) are listed below in Table 3, with additional field measurements presented in Table B-5 (Appendix B) and Table C-6 (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:

- WWTP-E-OUT and SP-W-OUT collected February 9 (acute toxicity);
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1 and WQR2 collected February 9 (chronic toxicity);
- SW-01 and SW-04 collected March 1 (total mercury, methylmercury and dioxins and furans);
- SW-02, SW-03 and SW-07 collected March 2 (total mercury, methylmercury and dioxins and furans);
- SP-W-IN, 2700GPM-IN and SP-W-OUT collected March 3 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected March 4 (total mercury, methylmercury and dioxins and furans);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected March 5 (dioxins and furans);
- COMB-WWTP-E-IN collected March 5 (total mercury and methylmercury);
- OUT-02 and OUT-06 collected March 5 (total mercury and methylmercury);
- OUT-01 collected March 8 (total mercury and methylmercury);
- IDZ-W1, IDZ-W2 and WQR2 collected March 16 (field and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #106.

Sample	Description	Sampling Date	Parameters Reported
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	February 26, 2026	Total Mercury and Methylmercury.
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	March 1, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	March 2, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
OUT-01	Non-contact water diversion ditch outlet	March 8, 2026	Field, Physical and General Parameters, Total and Dissolved Metals.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	March 9, 2026	Total Mercury and Methylmercury.
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a SP-W-OUT sampling port		
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, at the SP-W-OUT outfall structure		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	March 10, 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		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	March 16, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a SP-W-OUT sampling port		
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, at the SP-W-OUT outfall structure		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		
W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5		
W2700T6-OUT	2700GPM TSS settling system at the outlet of Train 6		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	March 18, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
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 July 2025 and the analytical results were presented in Report #82.

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 March 15 – 21, as well as analytical results for samples collected February 26 (total mercury and methylmercury for station COMB-WWTP-E-IN; as discussed in Report #103), March 10 (total mercury and methylmercury for stations SP-E-IN, WWTP-E-IN, and WWTP-E-OUT; as discussed in Report #105) and March 18 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected March 15 – 21 and the analytical samples collected March 10 (total mercury and methylmercury) and March 18 met MDOs (Appendix B, Table B-1, Table B-3 and Table B-4).

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from March 15 – 21 (Section 1.2; Table B-5 of Appendix B). Therefore,

water quality samples and field measurements were not collected at the SP-E-OUT discharge location.

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, a total of 25,969 m^3 of clarified sedimentation pond effluent from the 2700GPM TSS Settling System was intermittently discharged to Howe Sound from SP-W-OUT each day during the monitoring period (March 15 – 21).

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected March 15 – 21, as well as analytical samples collected March 9 (total mercury and methylmercury for stations SP-W-IN, SP-W-OUT, 2700GPM-IN and W2700T2-OUT; as discussed in Report #105) and March 16 (stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT, W2700T2-OUT, W2700T3-OUT, W2700T5-OUT and W2700T6-OUT).

Field measurements collected March 15 – 21 and the analytical samples collected at SP-W-OUT on March 9 (total mercury and methylmercury) and March 16 met PE-111578 discharge limits and WQGs (Appendix C, Table C-3, Table C-4 and Table C-5).

3.5 Non-Contact Water Diversion Ditch Outlets

Analytical results were available at the time of reporting for the non-contact water diversion ditch outlet sample collected at station OUT-01 on March 8 (as discussed in Report #105). The analytical results, field parameters, and WQGs are summarized in Appendix D.

Parameter concentrations met WQGs in the sample collected at OUT-01 on March 8.

3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were available at the time of reporting for freshwater and estuarine water samples collected near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on March 1 as well as at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on March 2 (as discussed in Report #104). The analytical results, field parameters, and WQGs are summarized in Appendix E (freshwater) and Appendix F (estuarine water).

Parameter concentrations met WQGs except field pH, fluoride, total aluminum, dissolved copper and hexavalent chromium in some of the freshwater samples (Appendix E, Table E-1). Field pH was below the lower limit of the WQG at the Mill Creek Estuary on March 2 (pH 6.6). Total aluminum was above the long-term WQG in samples collected from Woodfibre Creek, East Creek and mid-stream Mill Creek (0.151, 1.83 and 0.064 mg/L, respectively). Dissolved copper was above the long-term WQG in the sample collected from mid-stream Mill Creek (0.00033 mg/L). Fluoride and hexavalent chromium (0.261 and 0.00184 mg/L, respectively) were above the long-term WQGs in the sample collected from East Creek.

The field pH, total aluminum and dissolved copper concentrations above WQGs observed at downstream freshwater and estuarine water stations (SW-01, SW-02, SW-03 and SW-04) are within ranges observed in the pre-construction baseline monitoring program:

- pH 5.7 to 8.6 in the Mill Creek estuary (SW-03);
- 0.0158 to 0.294 mg/L for total aluminum in Woodfibre, Mill Creek and East Creek (SW-01, SW-02 and SW-04);
- 0.00012 to 0.00031 mg/L for dissolved copper in Mill Creek (SW-02);

or within ranges observed at background stations for the freshwater receiving environment:

- 0.0210 to 0.411 mg/L for total aluminum in Woodfibre, Mill Creek and East Creek;
- 0.00016 to 0.00054 mg/L for dissolved copper in Mill Creek;

except for total aluminum in East Creek on March 1 (Table 4). The corresponding dissolved aluminum concentration (1.64 mg/L) and non-detectable TSS concentrations (<3.0 mg/L) indicate that aluminum is predominantly in the dissolved form of the metal. Potential sources of aluminum to East Creek will be reviewed. This item is tracked in Table 5.

Fluoride and hexavalent chromium concentrations measured in East Creek on March 1 were also above the upper range observed in the pre-construction baseline monitoring program and above ranges observed at the background station for East Creek (Table 4). Potential sources of fluoride and hexavalent chromium to East Creek will be reviewed. This item is tracked in Table 5.

Raised detection limits were reported for all total metals for the Mill Creek Estuary sample (station SW-03) collected March 2, and the raised detection limit for total copper (<0.00250 mg/L) and total zinc (<0.0150 mg/L) are above the long-term WQGs (0.002 and 0.010 mg/L, respectively). A laboratory re-analysis has been requested to achieve a lower detection limit. This item is tracked in Table 5.

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

Parameter	Units	WQG[1]	N	N >WQG	Commentary
Total Aluminum	mg/L	0.578	1	1	Total aluminum measured in East Creek (SW-04) on March 1 (1.83 mg/L) was 3.2 times greater than the WQG. The total aluminum concentration was 6.9 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (0.264 mg/L).
Fluoride	mg/L	0.12	1	1	Fluoride measured in East Creek (SW-04) on March 1 (0.261 mg/L) was 2.2 times greater than the WQG. The fluoride concentration was 2.6 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (<0.1 mg/L).
Hexavalent Chromium	mg/L	0.001	1	1	Hexavalent chromium measured in East Creek (SW-04) on March 1 (0.00184 mg/L) was 1.8 times greater than the WQG. The hexavalent chromium concentration was 5.9 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (0.00031 mg/L).

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 for marine water receiving environment samples were not available at the time of reporting.

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 recordkeeping, 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 (March 15 – 21, Report #106)		
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. The lower reach of East Creek was temporarily diverted through Outfall 11 from September 17, 2024 to November 18, 2025. As November 19, 2025, East Creek flows have been returned to the lower Channel that discharges to Howe Sound through the Outfall 12 culverts (OUT-12). The culvert at OUT-01 is being replaced and diversion water flows to OUT-01 have been redirected to OUT-02. Outfall 11 (OUT-11) has been constructed but is not in use. All monitoring stations have been established except at SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP- W- IN- 2 where substitute stations are established in lieu of those listed in PE-111578 (refer to Section 2). This item remains open.
Report #106: Potential Project Influence	Total aluminum, fluoride and hexavalent chromium at East Creek above WQGs and the baseline concentration ranges.	At the East Creek station (SW-04) on March 1, total aluminum, fluoride, and hexavalent chromium concentrations (1.83, 0.261, and 0.00184 mg/L) were 3.2, 2.2, and 1.8 times greater than their WQGs, and 6.9, 2.6, and 5.9 times greater than their pre-construction baseline maxima (0.264, <0.100, and 0.00031 mg/L), respectively. Potential influences to East Creek water quality at station SW-04 are being reviewed. This item remains open.
Report #106: Data QC	Data QC	Raised detection limits were reported for all total metals for the Mill Creek Estuary (station SW-03) sample collected March 2 resulting in the raised detection limit for total copper (<0.00250 mg/L) and total zinc (<0.0150 mg/L) above the long-term WQGs (0.002 and 0.01 mg/L, respectively). A laboratory re-analysis has been requested to achieve a lower detection limit. This item remains open.
Report #106: Pending Data	Analytical results not reported.	Field records and analytical results for receiving environment samples collected March 16 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #98: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	This item was first noted in Report #98. Hexavalent chromium concentrations ranged from 0.00081 to 0.00321 mg/L in the WWTP-E-OUT samples collected from January 20 through February 26, which were frequently above the MDO (0.0015 mg/L). Hexavalent chromium concentrations were 0.00096, 0.00076, 0.00087 and <0.00050 mg/L in the WWTP-E-OUT samples collected February 27, March 5, 10 and 18, respectively, and met the MDO. The WWTP treatment performance for hexavalent chromium will continue to be evaluated in March 2026. This item remains open.
Report #101: WWTP Performance Evaluation	Total copper above the MDO.	This item was first noted in Report #101. Total copper concentrations were 0.00443, 0.00493 and 0.00451 mg/L in the samples collected at WWTP-E-OUT on February 12, 14 and 27 and were above the MDO (0.0043 mg/L). Total copper met the MDO in the subsequent samples collected at WWTP-E-OUT on March 5, 10 and 18 (0.00150, 0.00137 and 0.00150 mg/L, respectively). The WWTP treatment performance for total copper will continue to be evaluated in March 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #101: Pending Data	Analytical results not reported.	Chronic toxicity results for receiving environment samples and acute toxicity results for treated water samples collected February 9 are pending and will be included in future weekly reports when available. This item remains open.
Report #103: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for the contact water sample collected February 26 are included in Report #106. This item is closed.
Report #104: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for receiving environment samples collected March 1 and 2 are included in Report #106. Total mercury, methylmercury, dioxins and furans results for receiving environment, contact, treated and non-contact diversion ditch water samples collected March 1, 2, 3, 4 and 5 are pending and will be included in future weekly reports when available. This item remains open.
Report #105: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for the non-contact water diversion ditch sample collected March 8 are included in Report #106. Total mercury and methylmercury results for the non-contact water diversion ditch sample collected March 8 and for the contact and treated water samples collected March 9 and 10 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.

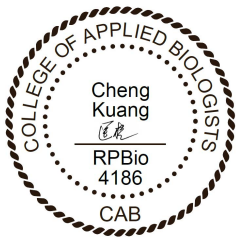
4. Closure

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.

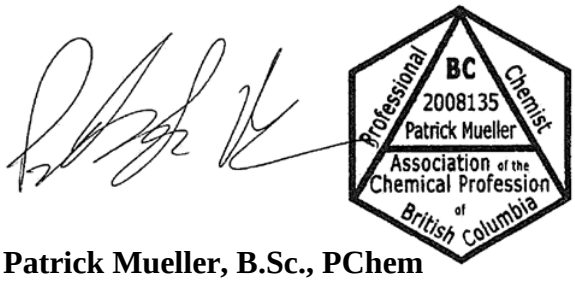
Regards,

LORAX ENVIRONMENTAL SERVICES LTD.

Holly Pelletier, B.Sc., GIT.
Environmental Geoscientist



Cheng Kuang, M.Sc., RPBio.
Environmental Scientist



Patrick Mueller, B.Sc., PChem
Environmental Chemist

Appendix A:
Figures and Site Images

World Imagery: District of Squamish. Additional imagery provided by McDermott International captured March 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:	Mar 26, 2026
DRAWN BY:	DM
REVIEWED:	PM
VERSION:	1

Coordinate System: *NAD 1983 UTM Zone 10N*
Projection: *Transverse Mercator*
Datum: *North American 1983*
Units: *Metre*

1:6,000

0 100 200 Metres

CLIENT: Woodfibre LNG

LORAX ENVIRONMENTAL

PROJECT:

Woodfibre LNG Project Construction Phase

TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (March 21, 2026)

PROJECT #: A825-1

FIGURE: 1

P:\@202506\Woodfibre\Drafting Figures\APRX\WLNG Weekly Report Figure\WLNG Weekly Report.aprx Figure 1 - Monitoring and Compliance Locations

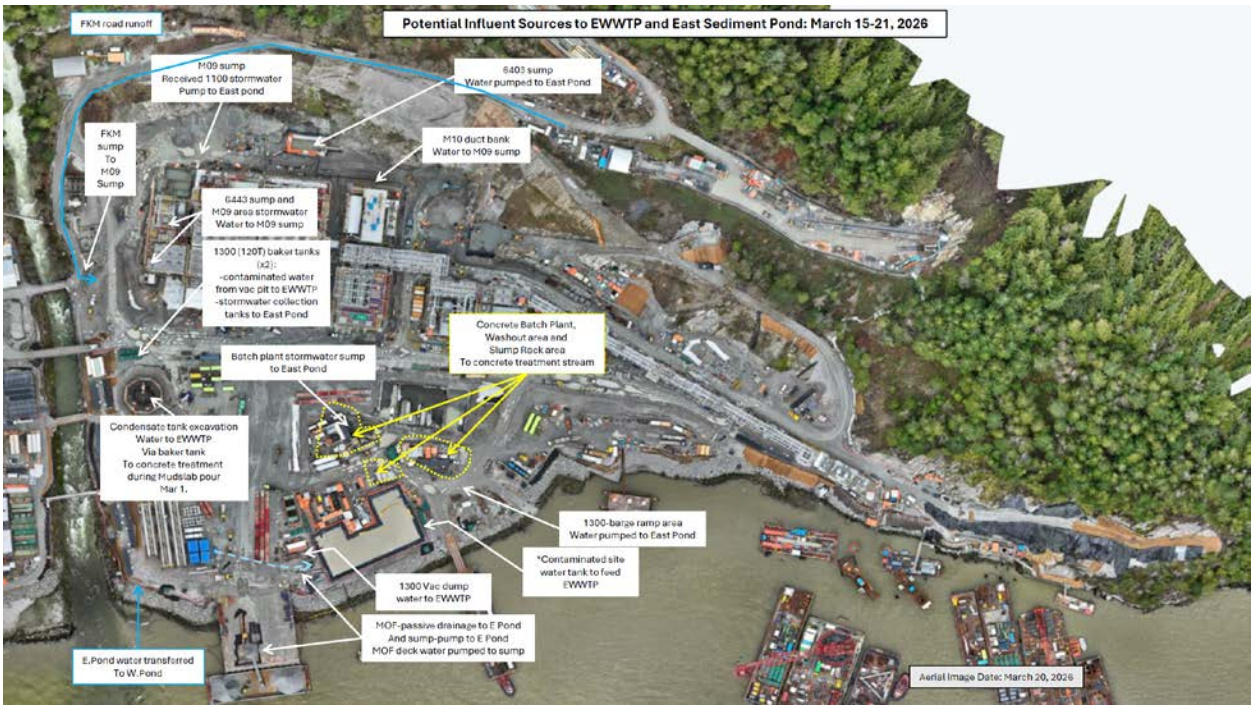


Figure 2: East Catchment contact water management facilities (March 15 – 21).

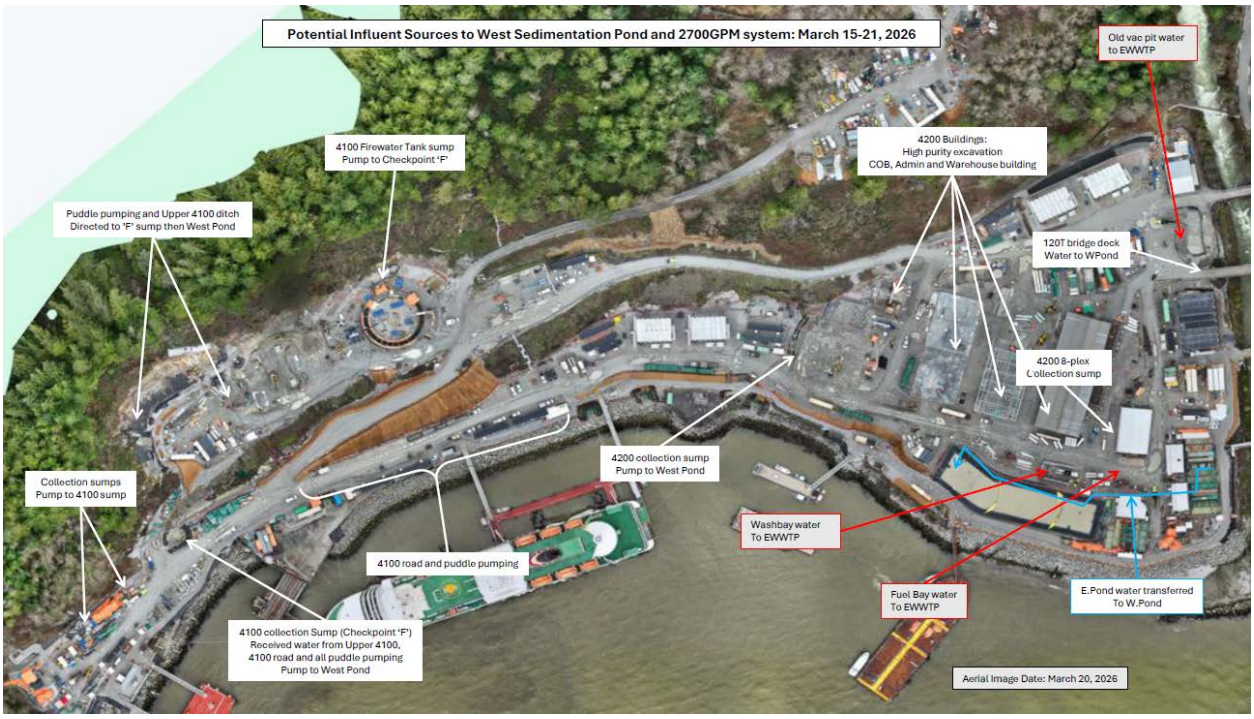


Figure 3: West Catchment contact water management facilities (March 15 – 21).

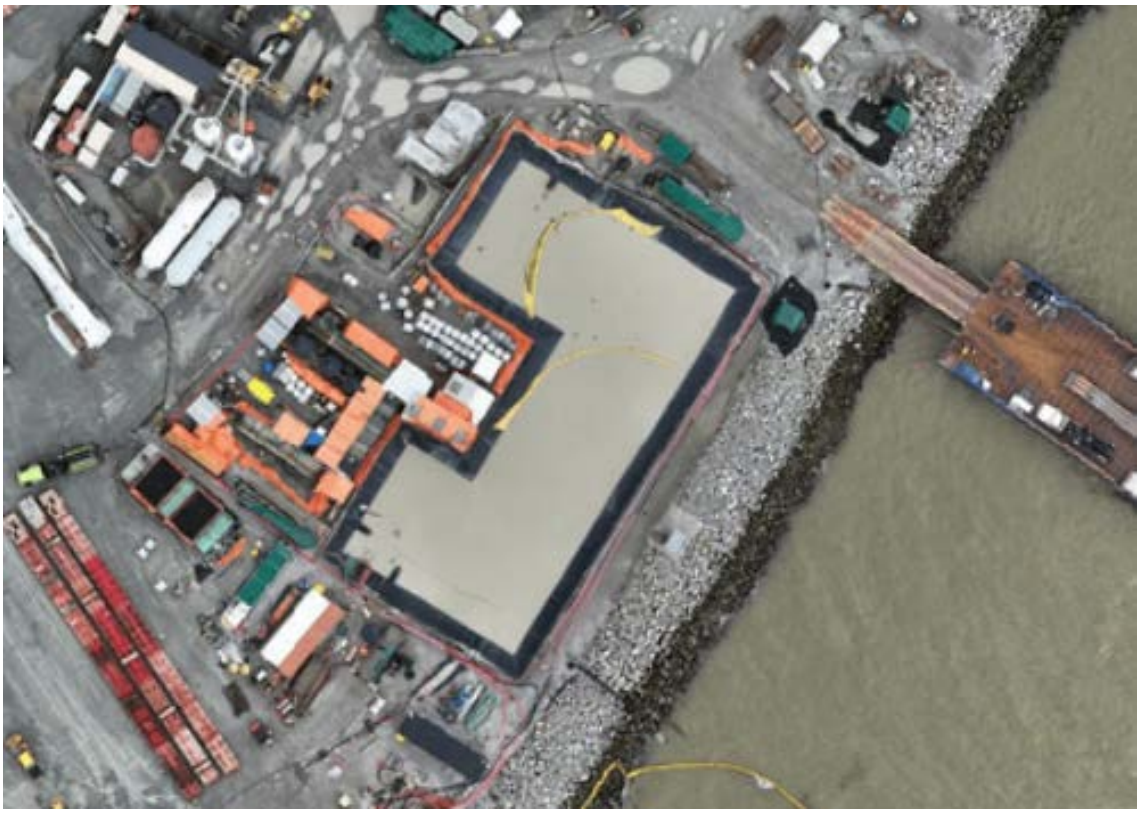


Figure 4: Aerial view of the East Sedimentation Pond (March 20, 2026). The East WWTP is located on the upper left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (March 20, 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 WWTP-E-IN Influent WWTP-E-IN VA26A6419-002 2026-03-18 9:48	Station WWTP-E-OUT Effluent WWTP-E-OUT VA26A6419-003 2026-03-18 15:55
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.3	6.6
Specific Conductivity - Field	µS/cm	-	-	-	264	869
Temperature - Field	℃	-	-	-	7.6	8.9
Salinity - Field	ppt	-	-	-	0.13	0.43
Turbidity - Field	NTU	-	-	-	295.54	2.18
TSS	mg/L	-	-	25 or 75 [5]	310	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.88	12.04
Total Hardness	mg/L	-	-	-	123	68.5
Dissolved Hardness	mg/L	-	-	-	61.3	64.5
Anions and Nutrients						
Sulphate	mg/L	-	-	-	54.2	324
Chloride	mg/L	-	-	-	3.16	3.1
Fluoride	mg/L	-	1.5	-	0.062	<0.100
Ammonia (N-NH_3)	mg/L	1.8-29 [3]	12-191 [3]	-	0.0158	0.0106
Nitrite (N-NO_2)	mg/L	-	-	-	0.0074	0.009
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.374	0.412
Total Organic Carbon (TOC)	mg/L	-	-	-	4.26	0.96
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.65	0.87
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	22.1	0.0936
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00077	0.0007
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00436	0.00074
Barium, total (T-Ba)	mg/L	-	-	-	0.149	0.00763
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000328	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.05	0.022
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000207***	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00665	0.0007
Cobalt, total (T-Co)	mg/L	-	-	-	0.00617	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0169	0.0015
Iron, total (T-Fe)	mg/L	-	-	-	17.4	0.02
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.0114	0.00009
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.74***	0.00969
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0137	0.0182
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00414	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000137	0.000106
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000032	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000036	0.000017
Uranium, total (T-U)	mg/L	-	-	-	0.0067	0.00208
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0289	0.00169
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.178	0.0054
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00083	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	0.0000133	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00115	0.00095
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0256	0.00918
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0843	0.195
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00172	0.00152
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0062	0.0042
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	-	-	-	-
Ethylbenzene	mg/L	0.07	-	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.03	-	-	-	-
Total Xylenes	mg/L	0.07	-	-	-	-
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 (March 15 – 21).
[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 27E and 27F 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 Influent SP-E-IN VA26A6419-001 2026-03-18 9:28
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.5
Specific Conductivity - Field	µS/cm	-	-	-	229
Temperature - Field	°C	-	-	-	7.3
Salinity - Field	ppt	-	-	-	0.11
Turbidity - Field	NTU	-	-	-	262.63
TSS	mg/L	-	-	25 or 75 [5]	279
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.89
Total Hardness	mg/L	-	-	-	121
Dissolved Hardness	mg/L	-	-	-	60.5
Anions and Nutrients					
Sulphate	mg/L	-	-	-	35.6
Chloride	mg/L	-	-	-	3.49
Fluoride	mg/L	-	1.5	-	0.084
Ammonia (N-NH_3)	mg/L	1.2 [3]	7.9 [3]	-	0.017
Nitrite (N-NO_2)	mg/L	-	-	-	0.0074
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.436
Total Organic Carbon (TOC)	mg/L	-	-	-	4.91
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.02
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	20.6
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00085
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00463
Barium, total (T-Ba)	mg/L	-	-	-	0.134
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.00033
Boron, total (T-B)	mg/L	1.2	-	-	0.067
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000219***
Chromium, total (T-Cr)	mg/L	-	-	-	0.00528
Cobalt, total (T-Co)	mg/L	-	-	-	0.00549
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0145
Iron, total (T-Fe)	mg/L	-	-	-	15.3
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.0103
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.674***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.014
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00302
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000121
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.00003
Thallium, total (T-Tl)	mg/L	-	-	-	0.000029
Uranium, total (T-U)	mg/L	-	-	-	0.00786
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0265
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.218
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00077
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00132
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.076
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000123
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0168
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0762
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00237
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0108
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	-	-	-
Ethylbenzene	mg/L	0.07	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-
Styrene	mg/L	-	-	-	-
Toluene	mg/L	0.03	-	-	-
Total Xylenes	mg/L	0.07	-	-	-
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 (March 15 – 21).
[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 27E and 27F 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]	0.0046-0.0095 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA26A5666-001	2026-03-10	***0.000178***	***0.0461***
SP-E-IN	Influent	SP-E-IN	VA26A6419-001	2026-03-18	***0.000313***	***0.0293***
WWTP-E-IN	Influent	WWTP-E-IN	VA26A5666-002	2026-03-10	***0.000303***	***0.0415***
WWTP-E-IN	Influent	WWTP-E-IN	VA26A6419-002	2026-03-18	***0.000259***	***0.0284***
COMB-WWTP-E-IN	Influent	COMB-WWTP-E-IN	VA26A4629-005	2026-02-26	***0.000265***	***0.0629***
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A5666-003	2026-03-10	0.000050	0.00805
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A6419-003	2026-03-18	<0.000020	0.00175

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 reported as not detected.

Table B-4:
East Catchment Field Measurements Collected During the Monitoring Period (March 15 – 21).

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	2026-03-15 13:55	8.7	13.11	0.32	17.13	15.8	7.5	662	No
SP-E-IN	Influent	2026-03-16 16:14	6.5	12.53	0.32	489.10	367.8	7.8	653	No
SP-E-IN	Influent	2026-03-17 13:00	7.1	12.35	0.25	217.39	165.1	8.0	520	No
SP-E-IN	Influent	2026-03-18 9:28	7.3	11.89	0.11	262.63	198.9	8.5	229	No
SP-E-IN	Influent	2026-03-19 14:45	8.8	12.11	0.10	241.14	182.8	7.5	216	No
SP-E-IN	Influent	2026-03-20 16:15	10.4	12.08	0.24	157.04	120.1	6.8	499	No
SP-E-IN	Influent	2026-03-21 15:23	10.6	11.98	0.25	27.31	23.4	6.9	513	No
WWTP-E-IN	Influent	2026-03-15 14:00	7.9	13.37	0.31	24.38	21.2	7.5	641	No
WWTP-E-IN	Influent	2026-03-16 16:08	6.4	12.56	0.25	475.51	357.6	7.6	506	No
WWTP-E-IN	Influent	2026-03-17 13:19	7.1	12.31	0.15	265.73	201.2	8.1	306	No
WWTP-E-IN	Influent	2026-03-18 9:48	7.6	11.88	0.13	295.54	223.4	8.3	264	No
WWTP-E-IN	Influent	2026-03-19 14:33	8.9	11.69	0.16	292.87	221.4	7.6	330	No
WWTP-E-IN	Influent	2026-03-20 16:04	10.3	12.04	0.16	188.02	143.2	7.9	330	No
WWTP-E-IN	Influent	2026-03-21 15:12	9.9	11.55	0.28	87.25	68.1	7.8	578	No
Effluent [5]										
WWTP-E-OUT	Effluent	2026-03-15 14:02	8.2	12.75	0.33	3.68	5.7	7.0	678	No
WWTP-E-OUT	Effluent	2026-03-16 16:05	7.5	12.18	0.38	2.91	5.2	7.0	776	No
WWTP-E-OUT	Effluent	2026-03-17 13:17	7.7	13.07	0.58	3.68	5.7	7.3	1167	No
WWTP-E-OUT	Effluent	2026-03-18 15:55	8.9	12.04	0.43	2.18	4.6	6.6	869	No
WWTP-E-OUT	Effluent	2026-03-19 14:38	9.9	12.24	0.38	1.19	3.9	6.5	768	No
WWTP-E-OUT	Effluent	2026-03-20 16:07	10.5	11.79	0.83	2.52	4.9	6.8	1629	No
WWTP-E-OUT	Effluent	2026-03-21 15:15	10.1	11.85	0.30	1.91	4.4	6.5	612	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (March 15 – 21). 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.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (March 15 – 21), therefore daily field measurements for SP-E-OUT were not collected on those days.
[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 (March 15 – 21).

	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				
2026-03-15	0	0	392	0
2026-03-16	0	312	394	0
2026-03-17	0	1,040	375	0
2026-03-18	0	0	347	0
2026-03-19	0	0	382	0
2026-03-20	0	0	345	0
2026-03-21	0	0	488	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 m^3/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 W2700T2-OUT
					Influent	Effluent	Effluent
					W2700-IN	W2700T1-OUT	W2700T2-OUT
					VA26A6160-002	VA26A6160-003	VA26A6160-004
		Long Term	Short Term		2026-03-16 11:05	2026-03-16 11:37	2026-03-16 11:31
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.3	8.0	8.1
Specific Conductivity - Field	µS/cm	-	-	-	174	216	210
Temperature - Field	℃	-	-	-	6..0	6.6	6.6
Salinity - Field	ppt	-	-	-	0.08	0.1	0.1
Turbidity - Field	NTU	-	-	-	164.83	9.97	6.16
TSS	mg/L	-	-	25 or 75 [5]	229	5.0	3.4
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.79	14.82	12.54
Total Hardness	mg/L	-	-	-	60.2	32.6	36.8
Dissolved Hardness	mg/L	-	-	-	33.3	33.9	38.2
Anions and Nutrients							
Sulphate	mg/L	-	-	-	34	47	46.4
Chloride	mg/L	-	-	-	2.03	2.53	2.42
Fluoride	mg/L	-	1.5	-	0.034	0.047	0.043
Ammonia ($N\text{-}NH_3$)	mg/L	1.8-2.9 [3]	12-19 [3]	-	0.0072	<0.0050	0.0057
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	0.0093	0.01	0.0099
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	0.163	0.168	0.177
Total Organic Carbon (TOC)	mg/L	-	-	-	5.25	2.75	2.57
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.93	2.97	2.61
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	12	0.495	0.347
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00057	0.0005	0.00047
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00217	0.00086	0.00077
Barium, total (T-Ba)	mg/L	-	-	-	0.0788	0.00466	0.00366
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000179	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000137***	<0.0000150	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	0.00347	0.00061	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.0032	0.00013	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0112	0.00204	0.00161
Iron, total (T-Fe)	mg/L	-	-	-	9.37	0.267	0.184
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00849	0.00059	0.000415
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.356***	0.0121	0.00944
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0113	0.0138	0.0129
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00217	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000116	0.000094	0.000066
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000027	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000046	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00334	0.00214	0.00225
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.015	0.00133	0.00106
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.056	0.0031	0.0033
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000100	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00119	0.00103	0.00114
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.015	<0.010	0.028
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000051	<0.000050	0.000073
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0123	0.00356	0.00438
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0416	0.0446	0.0497
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00074	0.00066	0.0006
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0016	<0.0010	0.0011
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 intermittently discharged each day during the monitoring period (March 15 – 21).
[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 27E and 27F 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 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 W2700T3-OUT Effluent W2700T3-OUT VA26A6160-005 2026-03-16 11:48	Station W2700T5-OUT Effluent W2700T5-OUT VA26A6160-006 2026-03-16 10:37	Station W2700T6-OUT Effluent W2700T6-OUT VA26A6160-007 2026-03-16 10:42
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.0	8.1	8.0
Specific Conductivity - Field	µS/cm	-	-	-	214	216	209
Temperature - Field	℃	-	-	-	6.7	6.3	6.5
Salinity - Field	ppt	-	-	-	0.1	0.1	0.1
Turbidity - Field	NTU	-	-	-	14.15	7.99	9.13
TSS	mg/L	-	-	25 or 75 [5]	8.8	5.2	4.6
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.32	13.78	12.39
Total Hardness	mg/L	-	-	-	32.9	33.6	31.1
Dissolved Hardness	mg/L	-	-	-	32.3	33.5	31.2
Anions and Nutrients							
Sulphate	mg/L	-	-	-	46.5	48.2	46.0
Chloride	mg/L	-	-	-	2.42	2.5	2.4
Fluoride	mg/L	-	1.5	-	0.048	0.048	0.047
Ammonia (N-NH_3)	mg/L	2.9 [3]	19 [3]	-	<0.0050	0.0126	0.0132
Nitrite (N-NO_2)	mg/L	-	-	-	0.0095	0.0332	0.0429
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.146	0.0766	0.0582
Total Organic Carbon (TOC)	mg/L	-	-	-	3.06	2.81	2.97
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.7	2.9	2.9
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	0.809	0.482	0.478
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00049	0.00048	0.00046
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00089	0.00079	0.00082
Barium, total (T-Ba)	mg/L	-	-	-	0.00596	0.00395	0.00358
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000152	<0.0000100	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00062	0.00059	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00018	0.00013	0.00014
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00207	0.00167	0.00155
Iron, total (T-Fe)	mg/L	-	-	-	0.443	0.255	0.264
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000891	0.000597	0.000551
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.028	0.02	0.0257
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0129	0.0134	0.0119
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000093	0.000096	0.000099
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000015	0.000013	0.000013
Uranium, total (T-U)	mg/L	-	-	-	0.00199	0.00199	0.00162
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00148	0.00104	0.00107
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0043	0.0032	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000100	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00103	0.00126	0.00108
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	0.039	0.015
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	0.000143	0.000057
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0134	0.0134	0.018
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0394	0.0402	0.0395
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00058	0.00054	0.0005
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	0.0015	0.0013
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 intermittently discharged each day during the monitoring period (March 15 – 21).
[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 27E and 27F 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 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 VA26A6160-001 2026-03-16 12:17	Station SP-W-OUT Effluent SP-W-OUT-Outfall VA26A6160-008 2026-03-16 10:07	Station SP-W-OUT Effluent SP-W-OUT-Port VA26A6160-011 2026-03-16 9:59
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.2	8.1	8.2
Specific Conductivity - Field	µS/cm	-	-	-	202	201	201
Temperature - Field	℃	-	-	-	6.3	6.3	6.4
Salinity - Field	ppt	-	-	-	0.1	0.1	0.1
Turbidity - Field	NTU	-	-	-	110.29	9.53	7.06
TSS	mg/L	-	-	25 or 75 [5]	201	6.6	4.4
Dissolved Oxygen - Field	mg/L	≥8	-	-	13.03	12.65	13.01
Total Hardness	mg/L	-	-	-	52.6	32.4	33
Dissolved Hardness	mg/L	-	-	-	35.7	32	31.7
Anions and Nutrients							
Sulphate	mg/L	-	-	-	42.2	44.3	43.8
Chloride	mg/L	-	-	-	2.41	2.36	2.33
Fluoride	mg/L	-	1.5	-	0.041	0.046	0.044
Ammonia (N-NH_3)	mg/L	1.8-2.9 [3]	12-19 [3]	-	0.0079	0.0133	0.0096
Nitrite (N-NO_2)	mg/L	-	-	-	0.0142	0.039	0.0257
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.161	0.065	0.105
Total Organic Carbon (TOC)	mg/L	-	-	-	5.29	2.95	3.02
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.63	2.74	2.73
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	9.06	0.54	0.444
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00058	0.00048	0.00046
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00202	0.00088	0.00078
Barium, total (T-Ba)	mg/L	-	-	-	0.0592	0.00488	0.00373
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000157	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000135***	<0.0000150	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	0.00311	0.00051	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00251	0.00016	0.00012
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00925	0.00168	0.00133
Iron, total (T-Fe)	mg/L	-	-	-	6.83	0.31	0.244
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00758	0.000595	0.000483
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.264***	0.0243	0.0175
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0161	0.0122	0.012
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00203	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000146	0.000075	0.000083
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000027	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000044	0.000012	0.000011
Uranium, total (T-U)	mg/L	-	-	-	0.00419	0.00169	0.0018
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0116	0.00111	0.00108
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0374	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00054	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000150	<0.0000050	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00111	0.00082	0.00091
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.015	0.016	0.011
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0158	0.0145	0.0103
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0507	0.0401	0.0397
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00093	<0.00050	0.00054
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0013	<0.0010	0.0014
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 intermittently discharged each day during the monitoring period (March 15 – 21).
[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 27E and 27F 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-4:
West 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]	0.0069-0.020 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A5552-001	2026-03-09	***0.000220***	***0.0468***
SP-W-IN	Influent	SP-W-IN	VA26A6160-001	2026-03-16	***0.000176***	***0.0235***
2700GPM-IN	Influent	W2700-IN	VA26A5552-002	2026-03-09	***0.000102***	***0.0230***
2700GPM-IN	Influent	W2700-IN	VA26A6160-002	2026-03-16	***0.000143***	***0.0188***
Effluent						
SP-W-OUT	Effluent	SP-W-OUT-Port	VA26A5552-004	2026-03-09	0.000027	0.00563
SP-W-OUT	Effluent	SP-W-OUT-Outfall	VA26A5552-005	2026-03-09	0.000031	0.00617
SP-W-OUT	Effluent	SP-W-OUT-Port	VA26A6160-011	2026-03-16	0.000034	0.00235
SP-W-OUT	Effluent	SP-W-OUT-Outfall	VA26A6160-008	2026-03-16	0.000033	0.00382
W2700T2-OUT	Effluent	W2700T2-OUT	VA26A5552-003	2026-03-09	0.000022	0.00553
W2700T1-OUT	Effluent	W2700T1-OUT	VA26A6160-003	2026-03-16	0.000039	0.00315
W2700T2-OUT	Effluent	W2700T2-OUT	VA26A6160-004	2026-03-16	0.000034	0.00272
W2700T3-OUT	Effluent	W2700T3-OUT	VA26A6160-005	2026-03-16	0.000033	0.00393
W2700T5-OUT	Effluent	W2700T5-OUT	VA26A6160-006	2026-03-16	0.000034	0.00350
W2700T6-OUT	Effluent	W2700T6-OUT	VA26A6160-007	2026-03-16	0.000034	0.00399

Notes:
West catchment influents 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 reported as not detected.

Table C-5:
West Catchment Field Measurements Collected During the Monitoring Period (March 15 – 21).

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	2026-03-15 13:40	7.6	12.07	0.08	11.11	11.3	7.5	169	No
SP-W-IN	Influent	2026-03-16 12:17	6.3	13.03	0.10	110.29	85.3	8.2	202	No
SP-W-IN	Influent	2026-03-17 9:59	6.6	12.70	0.05	116.72	90.0	8.1	107	No
SP-W-IN	Influent	2026-03-18 9:18	7.5	12.56	0.09	111.59	86.2	8.2	183	No
SP-W-IN	Influent	2026-03-19 10:56	8.1	12.48	0.07	350.45	264.4	8.2	150	No
SP-W-IN	Influent	2026-03-20 12:58	9.5	11.95	0.09	154.96	118.6	7.0	188	No
SP-W-IN	Influent	2026-03-21 10:54	9.4	12.35	0.11	10.79	11.0	7.6	233	No
2700GPM-IN	Influent	2026-03-15 13:44	7.6	12.49	0.06	12.69	12.5	8.0	135	No
2700GPM-IN	Influent	2026-03-16 11:05	6.0	12.79	0.08	164.83	125.9	8.3	174	No
2700GPM-IN	Influent	2026-03-17 8:03	6.6	12.47	0.06	178.7	136.3	8.3	137	No
2700GPM-IN	Influent	2026-03-17 9:53	6.3	12.53	0.05	110.57	85.5	8.0	113	No
2700GPM-IN	Influent	2026-03-18 9:15	7.6	12.12	0.09	83.36	65.2	7.9	186	No
2700GPM-IN	Influent	2026-03-19 9:40	8.4	12.24	0.09	197.49	150.3	7.2	103	No
2700GPM-IN	Influent	2026-03-20 12:53	9.7	11.82	0.08	105.54	81.7	7.7	170	No
2700GPM-IN	Influent	2026-03-21 11:14	9.9	11.73	0.14	54.66	43.8	8.1	297	No
Effluent [5]										
SP-W-OUT	Effluent	2026-03-15 11:41	7.3	12.52	0.08	10.25	10.6	7.7	159	No
SP-W-OUT	Effluent	2026-03-16 10:07	6.3	12.65	0.10	9.53	10.1	8.1	201	No
SP-W-OUT	Effluent	2026-03-16 10:10	6.2	12.65	0.10	8.27	9.2	8.1	201	No
SP-W-OUT	Effluent	2026-03-16 16:23	6.3	12.92	0.11	8.66	9.5	8.1	222	No
SP-W-OUT	Effluent	2026-03-17 9:17	6.9	13.58	0.07	5.91	7.4	7.9	153	No
SP-W-OUT	Effluent	2026-03-17 12:04	6.8	12.32	0.06	7.28	8.4	7.5	121	No
SP-W-OUT	Effluent	2026-03-18 8:39	8.3	12.97	0.09	1.17	3.9	7.7	197	No
SP-W-OUT	Effluent	2026-03-18 15:29	8.3	12.99	0.09	1.91	4.4	7.7	184	No
SP-W-OUT	Effluent	2026-03-19 9:50	8.9	12.72	0.10	3.33	5.5	7.7	215	No
SP-W-OUT	Effluent	2026-03-19 14:07	8.9	13.17	0.09	6.23	7.6	8.1	194	No
SP-W-OUT	Effluent	2026-03-20 11:35	11.6	12.32	0.08	8.88	9.6	7.2	166	No
SP-W-OUT	Effluent	2026-03-20 15:28	10.5	11.79	0.08	3.19	5.4	7.9	176	No
SP-W-OUT	Effluent	2026-03-21 11:30	8.8	12.14	0.10	6.51	7.9	7.8	216	No
SP-W-OUT	Effluent	2026-03-21 14:33	10.0	12.60	0.13	4.71	6.5	7.9	282	No
SP-W-OUT	Effluent	2026-03-21 16:45	10.0	11.89	0.11	3.02	5.3	7.7	224	No

Notes:
West catchment influents for March 15 – 21 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 from all six trains was intermittently discharged to Howe Sound at the authorized discharge location (SP-W-OUT) each day during the monitoring period (March 15 – 21).
[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-6:
West Catchment Daily Discharge Volumes for the Monitoring Period (March 15 – 21).

	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					
2026-03-15	0	2,309	0	0	737
2026-03-16	0	4,461	0	0	2,139
2026-03-17	0	7,049	0	0	6,061
2026-03-18	0	6,404	0	0	4,128
2026-03-19	0	6,457	0	0	5,590
2026-03-20	0	6,809	0	0	5,773
2026-03-21	0	2,176	0	0	1,541

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.
[2] As noted in PE-111578 Condition 2.2.4, the annual average authorized discharge rate from the West Sedimentation Pond to Howe Sound was set to 310 m^3/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.
[3] Clarified effluent from the 2700GPM TSS settling system is recirculated to the West Sedimentation Pond, discharged to Howe Sound or reclaimed for construction purposes based on operational considerations. Daily discharge volumes from station 2700GPM-OUT are a sum of all active treatment trains.

Appendix D:
Non-Contact Water Diversion Ditch Outlets Monitoring Results

Table D-1:
Summary of Non-Contact Water Diversion Ditch Outlet Quality Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station OUT-01 Non-contact Water Diversion Ditch Outlet OUT-01 VA26A5496-001
		Long Term	Short Term	2026-03-08 9:18
General Parameters				
pH - Field	pH units	6.5 - 9.0	-	7.6
Specific Conductivity - Field	µS/cm	-	-	12
Temperature - Field	℃	-	-	7.3
Salinity - Field	ppt	-	-	0
Turbidity - Field	NTU	-	-	0.09
TSS	mg/L	-	-	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.09
Total Hardness	mg/L	-	-	3.89
Dissolved Hardness	mg/L	-	-	3.96
Anions and Nutrients				
Sulphate [2]	mg/L	128-218	-	1.26
Chloride	mg/L	120	600	<0.50
Fluoride [2]	mg/L	-	0.400-0.927	<0.020
Ammonia ($N\text{-}NH_3$) [2]	mg/L	1.84-10.3	15.0-24.7	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.200	0.600	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0733
Total Organic Carbon (TOC)	mg/L	-	-	5.42
Total Inorganic Carbon (DOC)	mg/L	-	-	4.24
Total Metals				
Aluminum, total (T-Al) [2]	mg/L	0.204	-	0.162
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010
Barium, total (T-Ba)	mg/L	1	-	0.00276
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010
Cadmium, total (T-Cd) [2]	mg/L	0.0000364	0.000106	<0.0000050
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000389	-	<0.00010
Copper, total (T-Cu)	mg/L	-	-	0.00057
Iron, total (T-Fe)	mg/L	0.3	1	0.023
Lead, total (T-Pb)	mg/L	-	-	<0.000050
Manganese, total (T-Mn) [2]	mg/L	-	-	0.00092
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000249
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000036
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030
Hexavalent Chromium, total	mg/L	0.001	-	-
Dissolved Metals				
Cadmium, dissolved (D-Cd) [2]	mg/L	0.0000194	0.0000380	<0.0000050
Copper, dissolved (D-Cu) [2]	mg/L	0.00104	0.00593	0.00064
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.017
Lead, dissolved (D-Pb) [2]	mg/L	0.00226	-	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.175	0.985	0.00051
Nickel, dissolved (D-Ni) [2]	mg/L	0.00120	0.0164	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00579
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00366	0.0107	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	mg/L	0.0058	-	-
Acridine	mg/L	0.003	-	-
Anthracene	mg/L	0.000012	-	-
Benz(a)anthracene	mg/L	0.000018	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-
Chrysene	mg/L	-	-	-
Fluoranthene	mg/L	0.00004	-	-
Fluorene	mg/L	0.003	-	-
1-methylnaphthalene	mg/L	-	-	-
2-methylnaphthalene	mg/L	-	-	-
Naphthalene	mg/L	0.001	0.001	-
Phenanthrene	mg/L	0.0003	-	-
Pyrene	mg/L	0.00002	-	-
Quinoline	mg/L	0.0034	-	-
Volatile Organic Compounds (VOCs)				
Benzene	mg/L	0.04	-	-
Ethylbenzene	mg/L	0.09	-	-
Methyl-tert-butyl-ether	mg/L	10	3.4	-
Styrene	mg/L	0.072	-	-
Toluene	mg/L	0.0005	-	-
Total Xylenes	mg/L	0.03	-	-
Chlorobenzene	mg/L	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-

Notes:
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 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.
[3] The approved BC WQG for hexavalent chromium [Cr(VI)] is 0.001 mg/L and 0.0089 mg/L for trivalent chromium [Cr(III)]. The more conservative criteria for Cr(VI) is applied to total chromium results.
The lowest applicable guidelines are shown in the table; however, water quality data was screened to all applicable guidelines.

Appendix E: Freshwater Receiving Environment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station SW-01 Woodfibre Creek Lower Reach SW-01 VA26A4855-001 2026-03-01 13:27	Station SW-04 East Creek Lower Reach SW-04 VA26A4855-002 2026-03-01 11:57	Station SW-02 Mill Creek Lower Reach SW-02 VA26A4917-001 2026-03-02 13:45	Station SW-07 Upstream Mill Creek SW-07 VA26A4917-003 2026-03-02 12:46
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	6.5 - 9.0	-	6.9	7.8	7.2	8.3
Specific Conductivity - Field	µS/cm	-	-	10	106	19	18
Temperature - Field	℃	-	-	5.3	8.8	4.6	4.7
Salinity - Field	ppt	-	-	0	0.05	0.01	0.01
Turbidity - Field	NTU	-	-	1.62	5.12	0.02	0.1
TSS	mg/L	-	-	<3.0	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.9	11.76	13.34	13.04
Total Hardness	mg/L	-	-	2.4	83.9	4.9	4.3
Dissolved Hardness	mg/L	-	-	2.51	91.4	5.16	4.49
Anions and Nutrients							
Sulphate [2]	mg/L	128	-	0.55	11.8	3.12	2.84
Chloride	mg/L	120	600	0.58	9.37	0.99	0.84
Fluoride [2]	mg/L	-	0.120-0.775	<0.020	***0.261***	<0.020	<0.020
Ammonia ($N\text{-}NH_3$) [2]	mg/L	0.502-4.84	4.90-21.6	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.0600-0.200	0.18-0.6	<0.0010	0.0095	<0.0010	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0374	0.159	0.0636	0.0606
Total Organic Carbon (TOC)	mg/L	-	-	3.07	22.1	1.4	1.54
Total Inorganic Carbon (DOC)	mg/L	-	-	2.86	22	1.57	1.47
Total Metals							
Aluminum, total (T-Al) [2]	mg/L	0.0620-1.73	-	***0.151***	***1.83***	***0.064***	0.0614
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	0.00014	<0.00010	<0.00010
Arsenic, total (T-As)	mg/L	0.005	-	0.00011	0.00099	<0.00010	<0.00010
Barium, total (T-Ba)	mg/L	1	-	0.00175	0.0103	0.00286	0.00242
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010	<0.010	<0.010	0.01
Cadmium, total (T-Cd) [2]	mg/L	0.000036-0.00014	0.00011-0.0018	<0.0000050	<0.0000200	<0.0000050	0.0000065
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050	***0.00426***	<0.00050	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000389-0.000948	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	0.00053	0.00101	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	0.3	1	0.034	0.218	<0.010	<0.010
Lead, total (T-Pb)	mg/L	-	-	0.000056	<0.000050	<0.000050	<0.000050
Manganese, total (T-Mn) [2]	mg/L	-	-	0.00103	0.0244	0.00041	0.00052
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000215	0.0186	0.000533	0.00037
Nickel, total (T-Ni) [2]	mg/L	0.0250-0.0649	-	<0.00050	0.00066	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050	0.000054	<0.000050	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010	<0.000010	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000519	0.00284	0.000148	0.000139
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050	0.00159	<0.00050	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	0.0037	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.001	-	<0.00050	***0.00184***	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000018-0.00019	0.000038-0.00049	<0.0000050	<0.0000150	0.0000079	0.000011
Copper, dissolved (D-Cu) [2]	mg/L	0.000222-0.0298	0.00134-0.0531	0.00021	0.0007	***0.00033***	0.00026
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.023	0.129	<0.010	<0.010
Lead, dissolved (D-Pb) [2]	mg/L	0.00131-0.0191	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.135-0.440	0.985-5.71	0.00048	0.0239	0.00043	0.00194
Nickel, dissolved (D-Ni) [2]	mg/L	0.000600-0.00710	0.00870-0.0770	<0.00050	0.00056	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00343	0.0607	0.00824	0.0076
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.00149	<0.00050	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00156-0.0402	0.00826-0.134	<0.0010	0.0032	<0.0010	0.0013
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.0058	-	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	0.000012	-	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	0.000018	-	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00004	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	0.001	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	0.0003	-	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	0.00002	-	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	0.0034	-	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.04	-	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.09	-	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	10	3.4	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	0.072	-	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.0005	-	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	0.03	-	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050

Notes:
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 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.
[3] The approved BC WQG for hexavalent chromium [Cr(VI)] is 0.001 mg/L and 0.0089 mg/L for trivalent chromium [Cr(III)]. The more conservative criteria for Cr(VI) is applied to total chromium results.
The lowest applicable guidelines are shown in the table; however, water quality data was screened to all applicable guidelines.

Appendix F:
Estuarine Water Receiving Environment Results

Table F-1:
Summary of Mill Creek Estuary Water Quality Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		Station SW-03 Mill Creek Estuary SW-03 VA26A4917-002 2026-03-02 14:02
		Long Term	Short Term	
General Parameters				
pH - Field	pH units	7.0 - 8.7	-	***6.6***
Specific Conductivity - Field	µS/cm	-	-	4786
Temperature - Field	°C	-	-	6.3
Salinity - Field	ppt	-	-	2.6
Turbidity - Field	NTU	-	-	0.63
TSS	mg/L	-	-	<3.0
Dissolved Oxygen - Field	mg/L	>=8	-	13.09
Total Hardness	mg/L	-	-	465
Dissolved Hardness	mg/L	-	-	492
Anions and Nutrients				
Sulphate	mg/L	-	-	186
Chloride	mg/L	-	-	1360
Fluoride	mg/L	-	1.5	<0.400
Ammonia (N-NH_3)	mg/L	29 [2]	191 [2]	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	<0.0200
Nitrate (N-NO_3)	mg/L	3.7	339	0.131
Total Organic Carbon (TOC)	mg/L	-	-	1.43
Total Inorganic Carbon (DOC)	mg/L	-	-	1.7
Total Metals				
Aluminum, total (T-Al)	mg/L	-	-	0.0641
Antimony, total (T-Sb)	mg/L	-	0.27	<0.00050
Arsenic, total (T-As)	mg/L	0.0125	-	<0.00050
Barium, total (T-Ba)	mg/L	-	-	0.00436
Beryllium, total (T-Be)	mg/L	0.1	-	<0.000100
Boron, total (T-B)	mg/L	1.2	-	0.315
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	<0.00250
Cobalt, total (T-Co)	mg/L	-	-	<0.00050
Copper, total (T-Cu)	mg/L	0.002	0.003	***<0.00250***
Iron, total (T-Fe)	mg/L	-	-	<0.050
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.000250
Manganese, total (T-Mn)	mg/L	0.1	-	0.00263
Molybdenum, total (T-Mo)	mg/L	-	-	0.00141
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00250
Selenium, total (T-Se)	mg/L	0.002	-	<0.000250
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.000050
Thallium, total (T-Tl)	mg/L	-	-	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000371
Vanadium, total (T-V)	mg/L	0.005	-	<0.00250
Zinc, total (T-Zn)	mg/L	0.01	0.055	***<0.0150***
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00050
Dissolved Metals				
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.0000118
Copper, dissolved (D-Cu)	mg/L	-	-	0.00043
Iron, dissolved (D-Fe)	mg/L	-	-	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00239
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.612
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0015
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	-	-	<0.000010
2-methylnaphthalene	mg/L	-	-	<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	-	<0.00050
Ethylbenzene	mg/L	0.07	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050
Styrene	mg/L	-	-	<0.00050
Toluene	mg/L	0.03	-	<0.00040
Total Xylenes	mg/L	0.07	-	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050

Notes:
Non-detect results are screened using the detection limit value.
Results in ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of estuarine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of estuarine and marine water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.