TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 16 Jan 2026**	
From:	**Holly Pelletier and Patrick Mueller (Lorax)**	**Project #:**	**A633-9**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #96 for January 4 - 10**		

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 #96) was prepared by Lorax and summarizes WDA monitoring conducted for the period of January 4 - 10. 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 #96 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 G 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. 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. The lower reach of East Creek was temporarily diverted to Outfall 11 (OUT-11), from September 17, 2024, to November 18, 2025, to facilitate replacement of the Outfall 12 culvert. As of November 19, 2025, East Creek flows have been restored to the lower channel that discharges to Howe Sound through Outfall 12 (OUT-12). To facilitate the reconstruction of the culvert at station OUT-01, non-contact water at the inlet to the culvert at OUT-01 has been temporarily diverted by pumping to station OUT-02 starting on October 12, 2025.

The East WWTP was commissioned April 2024 and the West WWTP was commissioned August 2024. Operation of the West WWTP was subsequently suspended September 25, 2024, for a temporary reconfiguration to conduct pilot-scale evaluations of alternative treatment processes. The evaluations were completed April 2025 and did not yield improved treatment outcomes; therefore, the original treatment process has been maintained. Lower than expected volumes of contaminated contact water have been encountered during construction; therefore, operation of the West WWTP remains suspended and all site waters that require treatment are directed to the East WWTP, with treated effluent discharged to the East Sedimentation Pond.

The 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.

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, when needed.

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 2450 m^3/day. A staged commissioning of the 2700GPM system began June 2025 and was completed November 2025. Only one train is operated during dry conditions or 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 (*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 January 4 - 10 monitoring period, with precipitation recorded each day. The total precipitation amount during the monitoring period was 125.2 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
2026-01-04	15.6	9.1	4.5	Rain
2026-01-05	8.4	7.0	2.4	Scattered Showers
2026-01-06	42.8	5.5	2.3	Heavy Rain
2026-01-07	9.6	4.4	1.4	Scattered Showers
2026-01-08	1.0	6.3	1.3	Mix of sun and cloud
2026-01-09	9.2	5.7	3.4	Scattered Showers
2026-01-10	38.6	5.4	3.5	Heavy Rain

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

From January 4 - 10, the East Sedimentation Pond received water from the Area 1100 Sump, the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). There was no

discharge to Howe Sound from station SP-E-OUT during the monitoring period. No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from January 4 - 10 (Appendix B, Table B-6).

Routine operation of the East WWTP continued during the monitoring period (January 4 - 10). Concrete contact water and water from the Wash Bay and Hydrovac Pit 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 (January 4 - 10) except on January 8 as the East WWTP was not operational that day. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-6).

From January 4 - 10, the West Sedimentation Pond received water from the Area 4100 and Area 4200 Sumps 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 (January 4 - 10) and either recirculated back to the pond or intermittently discharged to Howe Sound. A total of 11,453 m^3 of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT during the monitoring period (January 4 - 10). Clarified effluent was not reclaimed for construction use. Daily clarified effluent volumes from the 2700GPM TSS settling system that were 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). Non-contact diversion ditch water at OUT-01 has been temporarily redirected to OUT-02 since October 12, 2025, to facilitate the reconstruction of the outfall at OUT-01.
- 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 used since December 8 for SP-W-OUT sample collection.

- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

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 OUT-01, OUT-02, OUT-06, SW-01, SW-02, SW-03, SW-04, SW-07, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT, and W2700T3-OUT during the monitoring period (January 4 - 10). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (January 4 - 10) 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 (January 4 - 10). Daily field parameters were not collected at the influent station of the East WWTP (WWTP-E-IN) on December 9 nor at the effluent station (WWTP-E-OUT) on December 8 and 9 as the East WWTP was not operational at the time of monitoring on those days. 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 (January 4 - 10).

Table 2:
Summary of PE-111578 Monitoring Samples Collected January 4 - 10.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
January 4, 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, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, 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 new SP-W-OUT sampling port	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	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
	W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		
	OUT-01	Non-contact water diversion ditch outlet	Field, Physical & General Parameters, Total and Dissolved Metals, and Methylmercury.	M
	OUT-02	Non-contact water diversion ditch outlet		
	OUT-06	Non-contact water diversion ditch outlet		
January 5, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, 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 manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	SW-01	Lower Reach of Woodfibre Creek (near the mouth)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M
	SW-02	Lower Reach of Mill Creek (upstream of the third bridge)		
	SW-03	Mill Creek Estuary		
	SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
	SW-07	Upstream Mill Creek (at the diversion inlet)		
January 6, 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 manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
January 7, 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 manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
January 8, 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
	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 manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	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 January 4 - 10.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
January 9, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	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 new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
January 10, 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 manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	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.
M_5 – fall high-frequency (5-in-30) sampling for receiving environment 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 #96) are listed below in Table 3, with additional field measurements presented in Table B-5 (Appendix B) and Table C-5 (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:

- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1 and WQR2 collected November 25 at 0.5 m below surface (chronic toxicity);
- IDZ-W1, IDZ-W2 and WQR2 collected December 6 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected December 12 (dioxins and furans);
- SP-E-OUT collected December 15 (dioxins and furans);
- SP-W-OUT and 2700GPM-IN collected December 15 (dioxins and furans);
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1 and WQR2 collected at 0.5 m below surface December 15 (dioxins and furans);
- SP-E-OUT collected December 16 (dioxins and furans);
- SP-E-OUT collected December 17 (dioxins and furans);
- SP-W-OUT and 2700GPM-IN collected December 26 (dioxins and furans);
- SP-W-OUT and 2700GPM-IN collected December 28 (dioxins and furans);
- SP-W-IN, SP-W-OUT and 2700GPM-IN collected January 4 (dioxins and furans);
- OUT-01, OUT-02 and OUT-06 collected January 4 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected January 5 (total mercury, methylmercury, dioxins and furans);
- SW-01, SW-02, SW-03, SW-04 and SW-07 collected January 5 (field and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #96.

Sample	Description	Sampling Date	Parameters Reported
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 new SP-W-OUT sampling port	November 25, 2025	Dioxins and Furans.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	December 3, 2025	Dioxins and Furans.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	December 4, 2025	Methylmercury, Dioxins and Furans.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	December 5, 2025	Dioxins and Furans.
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 new SP-W-OUT sampling port		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	December 6, 2025	Methylmercury.
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		
OUT-01	Non-contact water diversion ditch outlet	December 7, 2025	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 new SP-W-OUT sampling port	December 8, 2025	Dioxins and Furans.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	December 9, 2025	Dioxins and Furans.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	December 28, 2025	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	January 4, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, 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 new SP-W-OUT sampling port		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	January 5, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
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 3.2 and Section 3.4. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 0. 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 January 4 - 10 as well as total mercury and methylmercury results for samples collected December 28 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT, as discussed in Report #95) and analytical results for samples collected January 5 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT). Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected January 4 - 10 and the analytical samples collected January 5 met MDOs (Appendix B, Table B-1, Table B-3 and Table B-5).

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from January 4 - 10 (Section 1.2; Table B-6 of Appendix B). Therefore, water quality samples and field measurements were not collected at the SP-E-OUT sedimentation pond effluent station.

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 11,453 m^3 of clarified sedimentation pond effluent from the 2700GPM TSS Settling System was intermittently discharged to Howe Sound from SP-W-OUT during the monitoring period (January 4 - 10).

Field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected January 4 - 10 and analytical samples collected January 4 (stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT and W2700T3-OUT) were available at the time of reporting (Appendix C, Table C-1, Table C-2, Table C-3 and Table C-5). Field measurements collected at SP-W-OUT January 4 - 10 and the January 4 SP-W-OUT analytical samples met PE-111578 discharge limits and WQGs.

3.5 Non-Contact Water Diversion Ditch Outlets

The methylmercury analytical result for the non-contact water diversion ditch outlet sample collected at station OUT-01 on December 7 (as discussed in Report #94) was available at the time of reporting. The methylmercury concentration was 0.000033 µg/L and met the WQG. The corresponding total mercury result met the WQG. Results are tabulated in Appendix D, Table D-1.

3.6 Freshwater and Estuarine Water Receiving Environment

Methylmercury analytical results for the freshwater samples collected near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on December 4 (as discussed in Report #93) were available at the time of reporting. Methylmercury concentrations were <0.000020 and 0.000061 µg/L in the Woodfibre Creek and East Creek samples, respectively, and were below the WQG. The corresponding total mercury results were also below the WQGs. Results are tabulated in Appendix E, Table E-2.

Dioxins and furans results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on December 3 and 4, respectively (as discussed in Report #93). The lower and upper bound PCDD/F TEQ concentrations measured in these samples ranged from 0.00309 to 0.260 pg/L and from 1.12 to 2.07 pg/L, respectively. The lower and upper bound PCDD/F TEQ concentrations were within the concentration ranges observed in the pre-

construction baseline monitoring program or within ranges observed at background stations. Results are tabulated in Appendix E, Table E-2 (freshwater) and Appendix F, Table F-1 (estuarine water).

3.7 Marine Water Receiving Environment

Methylmercury analytical results were available at the time of reporting for marine water samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on December 6 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #93. For all samples, methylmercury concentrations ranged from <0.000020 to 0.000032 µg/L and met the WQG. The corresponding total mercury results met WQGs. Results are tabulated in Appendix G, Table G-1.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 4). 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 4. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 4:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (January 4 - 10, Report #96)		
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. 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 #96: Pending Data	Analytical results not reported.	Field and analytical results for non-contact water diversion ditch outlet samples collected January 4 and for receiving environment samples collected January 5 as well as total mercury and methylmercury results for contact and treated water samples collected January 5 and dioxins and furans results for contact and treated water samples collected January 4 and 5 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #92: Pending Data	Analytical results not reported.	Previously pending dioxins and furans results for contact and treated water samples collected November 25 are included in Report #96. Chronic toxicity results for receiving environment samples collected November 25 are pending and will be included in future weekly reports when available. This item remains open.
Report #92: Data QC	Data QC	Raised detection limits were reported for all total metals for the Mill Creek Estuary (station SW-03) sample collected December 3 resulting in the raised detection limit for total copper (<0.00250 mg/L) above the long-term WQG (0.002 mg/L). A reanalysis confirmed a lower detectable concentration for total copper (0.00055 mg/L) that was below the WQG. This item is closed.
Report #93: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for receiving environment samples collected December 4 and 6 as well as dioxins and furans results for receiving environment samples collected December 3 and 4 and for contact and treated water samples collected December 5 are included in Report #96. Dioxins and furans results for receiving environment samples collected December 6 are pending and will be included in future weekly reports when available. This item remains open.
Report #94: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for the non-contact water diversion ditch outlet sample collected December 7 as well as dioxins and furans results for contact and treated water samples collected December 8 and 9 are included in Report #96. Dioxins and furans results for receiving environment samples collected December 12 are pending and will be included in future weekly reports when available. This item remains open.
Report #95: WWTP Performance Evaluation	Total vanadium above the MDO.	The total vanadium concentration was 0.0106 mg/L in the sample collected at WWTP-E-OUT on December 15 and was above the MDO (0.0081 mg/L). Results from samples collected December 23 and 28, and January 5 met the MDO for total vanadium suggesting the December 15 result was an isolated incident. The WWTP treatment performance for total vanadium will be evaluated through the end of January 2026 to determine if this is an isolated event or a recurring issue. This item remains open.
Report #95: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for contact and treated water samples collected December 28 are included in Report #96. Dioxins and furans results for contact and treated water samples collected December 15, 16, 17, 26 and 28 and receiving environment samples collected December 15 are pending and will be included in future weekly reports when available. This item remains open.
Report #95: Data QC	Data QC	The total zinc concentration in the December 12 sample collected at marine reference station WQR1 at 2 m above the seafloor (0.348 mg/L presented in Report #95) was suspected to be erroneous. The lab retested the samples and confirmed the original result was incorrect due to contamination at the laboratory. The revised total zinc concentration in the sample was below detection limit (<0.0030 mg/L) and below the WQG. This item is closed.

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.

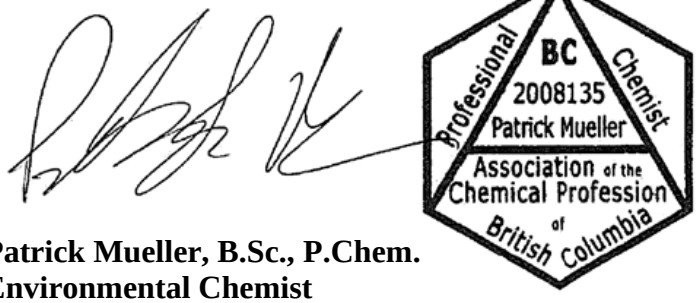
4. Closure

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



Patrick Mueller, B.Sc., P.Chem.
Environmental Chemist

Appendix A:
Figures and Site Images

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
- East Creek Temporary Diversion
- Non-Contact Ditch
- Culvert / Outfall / Pipeline
- Non-Contact Water Transfer Hose
- Bathymetry Contour (Major: 50m)
- Bathymetry Contour (Minor: 10m)

DATE SAVED:	Jan 09, 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 (January 3, 2026)

PROJECT #: A633-9

FIGURE: 1

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

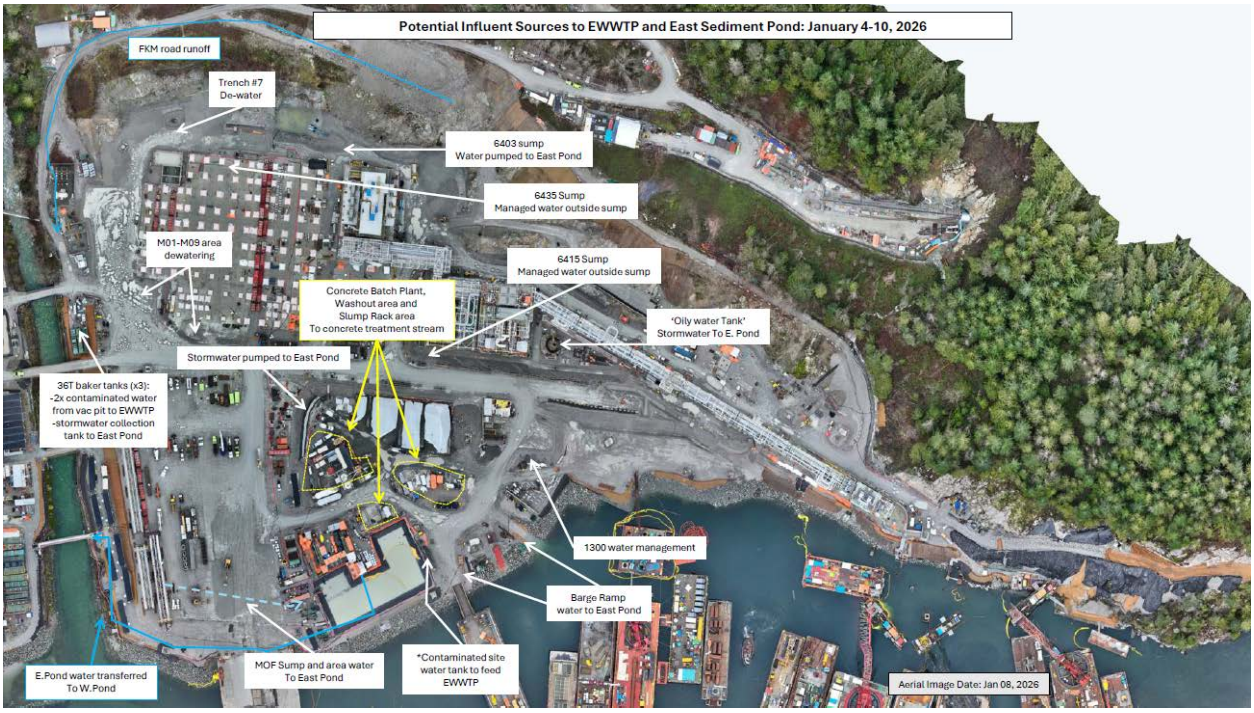


Figure 2: East Catchment contact water management facilities (January 4 - 10).

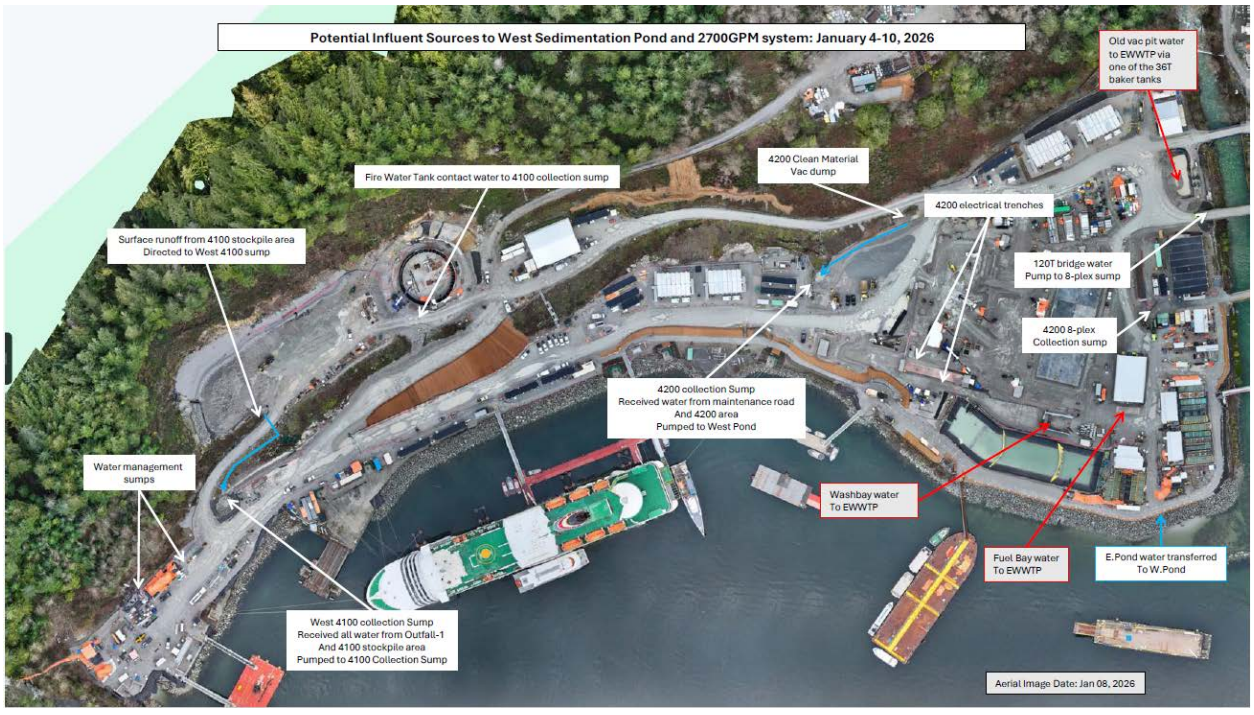


Figure 3: West Catchment contact water management facilities (January 4 - 10).

Figure 4: Aerial view of the East Sedimentation Pond (January 8, 2026). The East WWTP is located on the left side of the pond.

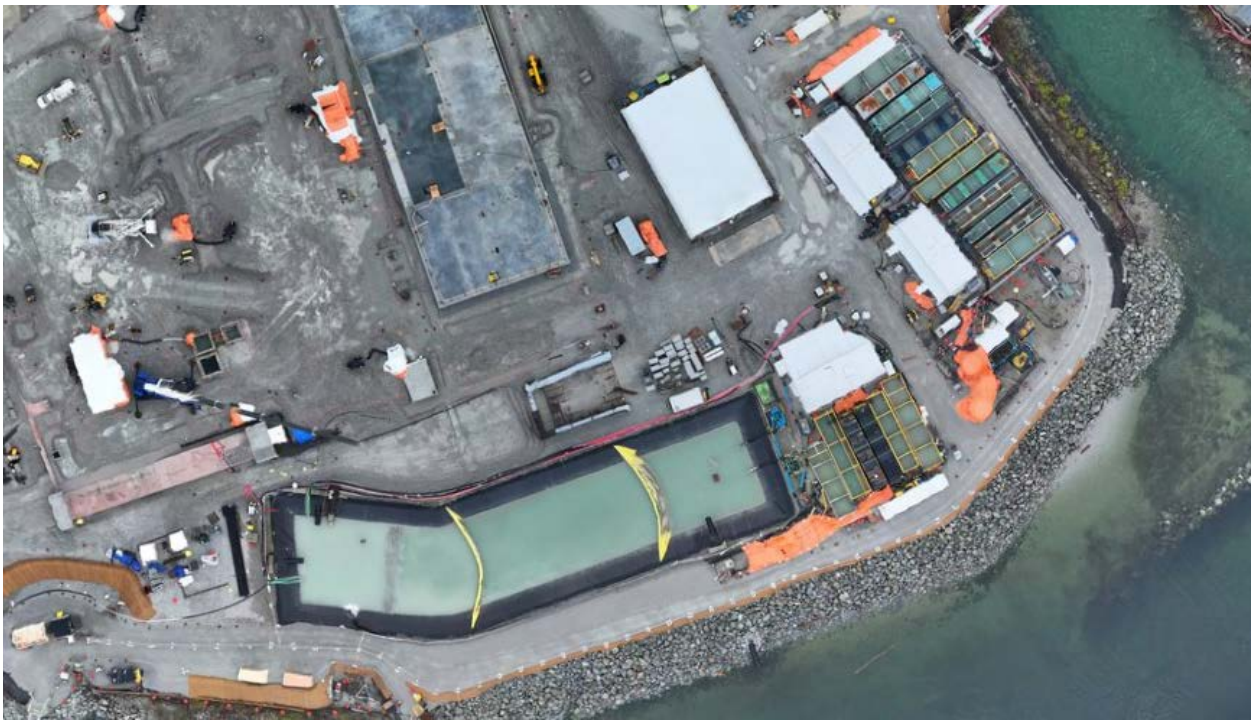


Figure 5: Aerial view of the West Sedimentation Pond (January 8, 2026).

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 VA26A0123-002 2026-01-05 8:38	Station WWTP-E-OUT Effluent WWTP-E-OUT VA26A0123-003 2026-01-05 15:07
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.1	6.4
Specific Conductivity - Field	µS/cm	-	-	-	315	620
Temperature - Field	℃	-	-	-	5.8	7.0
Salinity - Field	ppt	-	-	-	0.15	0.3
Turbidity - Field	NTU	-	-	-	279.14	2.04
TSS	mg/L	-	-	25 or 75 [6]	268	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.8	13.07
Total Hardness	mg/L	-	-	-	83.2	14.2
Dissolved Hardness	mg/L	-	-	-	44.6	14.9
Anions and Nutrients						
Sulphate	mg/L	-	-	-	67.7	148
Chloride	mg/L	-	-	-	4.84	4.5
Fluoride	mg/L	-	1.5	-	0.073	0.058
Ammonia (N-NH_3)	mg/L	29 [3]	191 [3]	-	0.0262	0.0072
Nitrite (N-NO_2)	mg/L	-	-	-	0.0054	0.0034
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.101	0.109
Total Organic Carbon (TOC)	mg/L	-	-	-	6.83	1.4
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.35	1.1
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	17.1	0.0826
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00069	0.00048
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00376	0.00073
Barium, total (T-Ba)	mg/L	-	-	-	0.146	0.00117
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000264	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.018	0.014
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000185***	<0.0000050
Chromium, total (T-Cr)	mg/L	-	-	-	0.00649	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00492	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.018	0.00103
Iron, total (T-Fe)	mg/L	-	-	-	14.3	<0.010
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.0248	<0.000050
Manganese, total (T-Mn)	mg/L	-	-	-	0.531	0.00258
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.00878	0.0092
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00415	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000108	0.000055
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000045	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000062	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00647	0.00376
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0223	0.00132
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0766	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	0.0000264	0.0000065
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00268	0.00171
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.662	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.0038	0.000067
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.056	0.00262
Nickel, dissolved (D-Ni)	mg/L	-	-	-	0.00059	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0627	0.0443
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00239	0.00123
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.009	0.0049
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	0.000012	<0.000010
Acridine	mg/L	-	-	-	<0.000010	<0.000010
Anthracene	mg/L	-	-	-	0.00001	<0.000010
Benz(a)anthracene	mg/L	-	-	-	0.000043	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	***0.0000503***	<0.0000050
Chrysene	mg/L	0.0001	-	-	0.000052	<0.000010
Fluoranthene	mg/L	-	-	-	0.000071	<0.000010
Fluorene	mg/L	0.012	-	-	0.000012	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	0.000043	<0.000020
Pyrene	mg/L	-	-	-	0.000075	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.11	-	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	<0.00050
Styrene	mg/L	-	-	-	<0.00050	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	-	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	-	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	<0.00050

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 (January 4 - 10).
[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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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-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 VA26A0123-001 2026-01-05 9:06
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	6.8
Specific Conductivity - Field	µS/cm	-	-	-	831
Temperature - Field	°C	-	-	-	6.6
Salinity - Field	ppt	-	-	-	0.41
Turbidity - Field	NTU	-	-	-	13.14
TSS	mg/L	-	-	25 or 75 [6]	17.3
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.18
Total Hardness	mg/L	-	-	-	36.9
Dissolved Hardness	mg/L	-	-	-	36.9
Anions and Nutrients					
Sulphate	mg/L	-	-	-	248
Chloride	mg/L	-	-	-	4.98
Fluoride	mg/L	-	1.5	-	<0.100
Ammonia (N-NH_3)	mg/L	29 [3]	191 [3]	-	0.0131
Nitrite (N-NO_2)	mg/L	-	-	-	<0.0050
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.134
Total Organic Carbon (TOC)	mg/L	-	-	-	1.57
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.5
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.84
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00048
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00108
Barium, total (T-Ba)	mg/L	-	-	-	0.0128
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.017
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000176
Chromium, total (T-Cr)	mg/L	-	-	-	0.0007
Cobalt, total (T-Co)	mg/L	-	-	-	0.00025
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00205
Iron, total (T-Fe)	mg/L	-	-	-	0.624
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00075
Manganese, total (T-Mn)	mg/L	-	-	-	0.0264
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0108
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	<0.000050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000012
Uranium, total (T-U)	mg/L	-	-	-	0.00748
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00285
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0048
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00088
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	0.0000071
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00096
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00828
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0947
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00172
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0017
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	<0.000010
Acridine	mg/L	-	-	-	<0.000010
Anthracene	mg/L	-	-	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020
Pyrene	mg/L	-	-	-	<0.000010
Quinoline	mg/L	-	-	-	<0.000050
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.11	-	-	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050
Styrene	mg/L	-	-	-	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040
Total Xylenes	mg/L	-	-	-	<0.00050
Chlorobenzene	mg/L	0.025	-	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050

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 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 (January 4 - 10).
[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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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-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]	0.0052-0.016 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA25D4207-001	2025-12-28	0.000032	0.0112
WWTP-E-IN	Influent	WWTP-E-IN	VA25D4207-002	2025-12-28	0.000057	0.00870
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA25D4207-003	2025-12-28	<0.000020	0.00103

Notes:
East catchment influents and 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 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 Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA25D2945-001	2025-12-09	2.39	5.24
WWTP-E-IN	Influent	WWTP-E-IN	VA25D2945-002	2025-12-09	7.44	9.40
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA25D2945-003	2025-12-09	0.0102	0.659

Notes:
PCDD = polychlorinated dibenzodioxins (dioxins)
PCDF = polychlorinated dibenzofurans (furans)
TEQ = toxic equivalency
Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).
Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Table B-5:
East Catchment Field Measurements Collected During the Monitoring Period (January 4 - 10).

Parameter			**Temp.**	**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	2026-01-04 15:35	7.3	12.35	0.22	156.12	119.4	7.5	464	No
SP-E-IN	Influent	2026-01-05 9:06	6.6	12.18	0.41	13.14	12.8	6.8	831	No
SP-E-IN	Influent	2026-01-06 11:30	5.8	12.67	0.19	199.58	151.8	7.3	388	No
SP-E-IN	Influent	2026-01-07 12:04	5.8	12.28	0.18	12.07	12.0	7.2	370	No
SP-E-IN	Influent	2026-01-08 11:05	4.3	12.76	0.08	301.66	228.0	7.3	169	No
SP-E-IN	Influent	2026-01-09 13:34	6.3	11.85	0.12	141.44	108.5	8.1	254	No
SP-E-IN	Influent	2026-01-10 14:02	8.1	12.99	0.25	280.20	212.0	6.8	506	No
WWTP-E-IN	Influent	2026-01-04 15:40	6.7	12.06	0.22	111.67	86.3	7.2	463	No
WWTP-E-IN	Influent	2026-01-05 8:38	5.8	11.80	0.15	279.14	211.2	7.1	315	No
WWTP-E-IN	Influent	2026-01-06 11:35	5.3	12.43	0.18	263.17	199.3	7.2	365	No
WWTP-E-IN	Influent	2026-01-07 12:08	4.9	12.01	0.17	206.44	157.0	6.9	352	No
WWTP-E-IN	Influent	2026-01-08 10:54	4.4	10.41	0.18	165.18	126.2	7.4	370	No
WWTP-E-IN	Influent	2026-01-10 13:57	5.2	12.47	0.18	442.48	333.0	6.6	382	No
Effluent [5]										
WWTP-E-OUT	Effluent	2026-01-04 15:47	7.2	12.61	0.36	3.13	5.3	6.5	750	No
WWTP-E-OUT	Effluent	2026-01-05 15:07	7.0	13.07	0.30	2.04	4.5	6.4	620	No
WWTP-E-OUT	Effluent	2026-01-06 11:42	7.0	11.44	0.48	3.31	5.5	6.6	979	No
WWTP-E-OUT	Effluent	2026-01-07 12:23	8.6	11.51	0.17	4.40	6.3	6.5	351	No
WWTP-E-OUT	Effluent	2026-01-10 13:45	5.6	13.28	0.40	9.01	9.7	6.3	806	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (January 4 - 10). Results above screening values are highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field measurements for station WWTP-E-IN were not collected on January 9 as the East WWTP was not at the time of monitoring.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (January 4 - 10), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for station WWTP-E-OUT were not collected on January 8 and 9 as the East WWTP was not operational at the time of monitoring.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-6:
East Catchment Daily Discharge Volumes for the Monitoring Period (January 4 - 10).

	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	-	-	1100	-[1]
Date				
2026-01-04	0	0	569	0
2026-01-05	0	0	521	0
2026-01-06	0	0	536	0
2026-01-07	0	0	443	0
2026-01-08	0	0	0	0
2026-01-09	0	0	62	0
2026-01-10	0	0	548	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 W2700T3-OUT
					Influent	Effluent	Effluent
					2700GPM-IN	W2700T1-OUT	W2700T3-OUT
					VA26A0077-002	VA26A0077-003	VA26A0077-004
		Long Term	Short Term		2026-01-04 11:44	2026-01-04 10:46	2026-01-04 10:50
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.8	7.8	7.9
Specific Conductivity - Field	µS/cm	-	-	-	304	358	332
Temperature - Field	℃	-	-	-	6.5	8.2	6.9
Salinity - Field	ppt	-	-	-	0.15	0.17	0.16
Turbidity - Field	NTU	-	-	-	11.68	5.9	4.56
TSS	mg/L	-	-	25 or 75 [6]	76.9	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.28	13	11.61
Total Hardness	mg/L	-	-	-	58.1	44.1	42.3
Dissolved Hardness	mg/L	-	-	-	43.6	42.5	41.2
Anions and Nutrients							
Sulphate	mg/L	-	-	-	60.5	66.2	64.9
Chloride	mg/L	-	-	-	5.15	5.72	5.59
Fluoride	mg/L	-	1.5	-	0.055	0.057	0.055
Ammonia ($N\text{-}NH_3$)	mg/L	4.7 [3]	31 [3]	-	0.0052	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	0.0041	0.007	0.0038
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	0.176	0.18	0.16
Total Organic Carbon (TOC)	mg/L	-	-	-	4.31	1.62	1.64
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.2	1.7	1.81
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	7.57	0.197	0.207
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00063	0.00053	0.00053
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00214	0.00092	0.00093
Barium, total (T-Ba)	mg/L	-	-	-	0.0631	0.00444	0.00339
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000106	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.013	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000696	<0.0000050	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00306	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00223	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0159	0.00137	0.00135
Iron, total (T-Fe)	mg/L	-	-	-	6	0.095	0.101
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00645	0.000285	0.000257
Manganese, total (T-Mn)	mg/L	-	-	-	0.22	0.0135	0.0119
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.00947	0.00814	0.00815
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00246	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000083	0.00006	<0.000050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000028	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000034	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00575	0.00428	0.00442
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0116	0.00091	0.00105
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0429	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000150	<0.0000050	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00147	0.00092	0.00106
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010	0.013
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	0.000055
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0177	0.0101	0.00891
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0622	0.0603	0.0586
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00128	0.00066	0.00084
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0025	<0.0010	0.001
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	0.000011	-	-
Acridine	mg/L	-	-	-	<0.000010	-	-
Anthracene	mg/L	-	-	-	<0.000010	-	-
Benz(a)anthracene	mg/L	-	-	-	0.000019	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	***0.0000188***	-	-
Chrysene	mg/L	0.0001	-	-	0.000023	-	-
Fluoranthene	mg/L	-	-	-	0.000042	-	-
Fluorene	mg/L	0.012	-	-	<0.000010	-	-
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	-
2-methylnaphthalene	mg/L	0.001	-	-	0.000012	-	-
Naphthalene	mg/L	0.001	-	-	<0.000050	-	-
Phenanthrene	mg/L	-	-	-	0.000038	-	-
Pyrene	mg/L	-	-	-	0.000042	-	-
Quinoline	mg/L	-	-	-	<0.000050	-	-
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.11	-	-	<0.00050	-	-
Ethylbenzene	mg/L	0.25	-	-	<0.00050	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-	-
Styrene	mg/L	-	-	-	<0.00050	-	-
Toluene	mg/L	0.215	-	-	<0.00040	-	-
Total Xylenes	mg/L	-	-	-	<0.00050	-	-
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment intermittently discharged each day during the monitoring period (January 4 - 10).
[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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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-2:
West Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station SP-W-IN Influent SP-W-IN VA26A0077-001 2026-01-04 12:33	Station SP-W-OUT Effluent SP-W-OUT VA26A0077-005 2026-01-04 12:19	Station SP-W-OUT Effluent SP-W-OUT-DUP VA26A0077-006 2026-01-04 12:19
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.7	7.7	7.7
Specific Conductivity - Field	µS/cm	-	-	-	304	321	321
Temperature - Field	℃	-	-	-	6.7	6.9	6.9
Salinity - Field	ppt	-	-	-	0.15	0.15	0.15
Turbidity - Field	NTU	-	-	-	126.86	1.06	1.12
TSS	mg/L	-	-	25 or 75 [6]	99.9	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.27	13.65	13.62
Total Hardness	mg/L	-	-	-	63.9	42.6	43.9
Dissolved Hardness	mg/L	-	-	-	45.8	42	42
Anions and Nutrients							
Sulphate	mg/L	-	-	-	64.8	65.1	64.9
Chloride	mg/L	-	-	-	4.54	5.65	5.64
Fluoride	mg/L	-	1.5	-	0.055	0.055	0.055
Ammonia (N-NH_3)	mg/L	7.2 [3]	48 [3]	-	0.0052	<0.0050	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	-	0.0039	0.0055	0.0054
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.191	0.172	0.172
Total Organic Carbon (TOC)	mg/L	-	-	-	4.51	1.68	1.44
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.16	1.67	1.62
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	9.26	0.171	0.183
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00068	0.00051	0.00054
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00244	0.00089	0.0009
Barium, total (T-Ba)	mg/L	-	-	-	0.0759	0.0036	0.0038
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000123	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.014	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000791	<0.0000100	<0.0000050
Chromium, total (T-Cr)	mg/L	-	-	-	0.00381	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00274	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0103	0.00164	0.00161
Iron, total (T-Fe)	mg/L	-	-	-	7.56	0.151	0.177
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00734	0.000221	0.00024
Manganese, total (T-Mn)	mg/L	-	-	-	0.264	0.0128	0.0132
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.00959	0.00812	0.00837
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00228	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000075	<0.000050	0.000053
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000025	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000042	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00571	0.00422	0.0044
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0143	0.00094	0.00103
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0392	<0.0030	<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	<0.0000050	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00112	0.00084	0.00091
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.013	0.017	0.018
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0198	0.00952	0.0097
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0677	0.06	0.0591
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00136	0.00075	0.00073
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0022	0.001	0.0012
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	0.000014	<0.000010	<0.000010
Acridine	mg/L	-	-	-	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	-	<0.000020	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	-	0.000029	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	***0.0000275***	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	-	0.000034	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	-	0.00006	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	-	0.000012	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	0.000012	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	0.00005	<0.000020	<0.000020
Pyrene	mg/L	-	-	-	0.000058	<0.000010	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.11	-	-	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	-	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	<0.00050	<0.00050

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment intermittently discharged each day during the monitoring period (January 4 - 10).
[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] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[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-3:
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]	0.0025-0.015 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A0077-001	2026-01-04	***0.000145***	***0.0221***
2700GPM-IN	Influent	2700GPM-IN	VA26A0077-002	2026-01-04	***0.000151***	***0.0174***
Effluent						
SP-W-OUT	Effluent	SP-W-OUT	VA26A0077-005	2026-01-04	0.000048	0.00122
SP-W-OUT	Effluent	SP-W-OUT-DUP	VA26A0077-006	2026-01-04	0.000022	0.00105
W2700T1-OUT	Effluent	W2700T1-OUT	VA26A0077-003	2026-01-04	<0.000020	0.00099
W2700T3-OUT	Effluent	W2700T3-OUT	VA26A0077-004	2026-01-04	0.000027	0.00141

Notes:
East catchment influents and 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 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-4:
West Catchment Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA25D2659-001	2025-12-05	0.995	3.15
2700GPM-IN	Influent	W2700-IN	VA25D1575-002	2025-11-25	0.0654	0.894
2700GPM-IN	Influent	W2700-IN	VA25D2659-002	2025-12-05	0.446	2.01
2700GPM-IN	Influent	W2700-IN	VA25D2841-001	2025-12-08	1.00	3.49
Effluent						
SP-W-OUT	Effluent	SP-W-OUT	VA25D1575-004	2025-11-25	0.0574	0.909
SP-W-OUT	Effluent	SP-W-OUT-DUP	VA25D1575-005	2025-11-25	0.0371	0.865
SP-W-OUT	Effluent	SP-W-OUT	VA25D2659-006	2025-12-05	0.781	1.76
SP-W-OUT	Effluent	SP-W-OUT-DUP	VA25D2659-007	2025-12-05	0.0	1.29
SP-W-OUT	Effluent	SP-W-OUT	VA25D2841-002	2025-12-08	0.0423	1.76

Notes:
PCDD = polychlorinated dibenzodioxins (dioxins)
PCDF = polychlorinated dibenzofurans (furans)
TEQ = toxic equivalency
Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).
Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Table C-5:
West Catchment Field Measurements Collected During the Monitoring Period (January 4 - 10).

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	2026-01-04 12:33	6.7	12.27	0.15	126.86	97.6	7.7	304	No
SP-W-IN	Influent	2026-01-05 8:21	6.0	12.33	0.16	85.53	66.8	7.2	336	No
SP-W-IN	Influent	2026-01-06 10:04	5.0	13.19	0.09	565.79	425.0	7.4	117	No
SP-W-IN	Influent	2026-01-07 11:38	5.2	12.10	0.13	81.41	63.7	7.4	277	No
SP-W-IN	Influent	2026-01-08 11:35	5.5	12.79	0.12	16.62	15.4	7.7	258	No
SP-W-IN	Influent	2026-01-09 11:39	5.7	12.14	0.12	125.59	96.7	7.3	250	No
SP-W-IN	Influent	2026-01-10 11:04	5.9	12.62	0.10	493.05	370.7	8.1	201	No
2700GPM-IN	Influent	2026-01-04 11:44	6.5	12.28	0.15	11.68	11.7	7.8	304	No
2700GPM-IN	Influent	2026-01-05 8:03	6.1	12.28	0.15	54.88	43.9	7.2	307	No
2700GPM-IN	Influent	2026-01-06 9:56	5.6	12.43	0.11	203.8	155.0	7.1	240	No
2700GPM-IN	Influent	2026-01-07 11:33	5.2	12.46	0.15	109.49	84.7	7.4	310	No
2700GPM-IN	Influent	2026-01-08 11:29	5.5	12.71	0.12	17.43	16.0	7.6	257	No
2700GPM-IN	Influent	2026-01-09 11:47	5.5	12.54	0.13	136.56	104.8	7.5	279	No
2700GPM-IN	Influent	2026-01-10 10:56	6.2	12.45	0.12	77.28	60.6	7.9	246	No
Effluent [5]										
SP-W-OUT	Effluent	2026-01-04 12:19	6.9	13.65	0.15	1.06	3.8	7.7	321	No
SP-W-OUT	Effluent	2026-01-05 7:46	8.3	12.52	0.14	2.96	5.2	7.4	293	No
SP-W-OUT	Effluent	2026-01-06 10:00	5.7	14.41	0.12	2.23	4.7	7.2	246	No
SP-W-OUT	Effluent	2026-01-06 14:46	5.5	12.61	0.11	4.03	6.0	7.4	235	No
SP-W-OUT	Effluent	2026-01-07 11:15	5.5	12.07	0.15	5.91	7.4	7.6	306	No
SP-W-OUT	Effluent	2026-01-08 14:56	5.9	12.86	0.13	5.36	7.0	7.6	266	No
SP-W-OUT	Effluent	2026-01-09 11:36	6.2	11.93	0.14	2.14	4.6	7.1	286	No
SP-W-OUT	Effluent	2026-01-10 10:49	7.2	12.07	0.12	4.56	6.4	8.2	255	No
SP-W-OUT	Effluent	2026-01-10 14:44	5.9	12.13	0.12	3.45	5.6	7.2	242	No

Notes:
West catchment influents for January 4 - 10 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 Trains 1, 2, 3 and 4 was intermittently discharged to Howe Sound at the authorized discharge location (SP-W-OUT) each day during the monitoring period (January 4 - 10).
[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 (January 4 - 10).

	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					
2026-01-04	0	4,051	0	0	2,599
2026-01-05	0	3,570	0	0	1,173
2026-01-06	0	5,527	0	0	3,776
2026-01-07	0	2,873	0	0	742
2026-01-08	0	2,279	0	0	866
2026-01-09	0	1,728	0	0	264
2026-01-10	0	4,260	0	0	2,034

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:
Non-contact Water Diversion Ditch Outlet 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]	0.0089 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
OUT-01	Non-Contact Water Diversion Ditch Outlet	OUT-01	VA25D2743-001	2025-12-07	0.000033	0.00295

Notes:
Results ***underlined in bold italics*** exceed the applicable long-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] 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 = 0.026 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.
Non-detect results are screened using the detection limit value.

Appendix E:
Freshwater Receiving Environment Results

Table E-1:
Freshwater 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]	0.0028 - 0.010 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-01	Woodfibre Creek Lower Reach	SW-01	VA25D2523-001	2025-12-04	<0.000020	0.00205
SW-04	East Creek Lower Reach	SW-04	VA25D2523-002	2025-12-04	0.000061	0.00173

Notes:
Results ***underlined in bold italics*** exceed the applicable long-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] 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 = 0.026 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.
Non-detect results are screened using the detection limit value.

Table E-2:
Freshwater Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-01	Woodfibre Creek Lower Reach	SW-01	VA25D2545-001	2025-12-04	0.260	2.07
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA25D2377-001	2025-12-03	0.0144	1.12
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA25D2377-003	2025-12-03	0.00309	1.67
SW-04	East Creek Lower Reach	SW-04	VA25D2545-002	2025-12-04	0.0222	1.84

Notes:
PCDD = polychlorinated dibenzodioxins (dioxins)
PCDF = polychlorinated dibenzofurans (furans)
TEQ = toxic equivalency
Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).
Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Appendix F:
Estuarine Water Receiving Environment Results

Table F-1:
Estuarine Water Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-03	Mill Creek Estuary	SW-03	VA25D2377-002	2025-12-03	0.0454	1.48

Notes:
PCDD = polychlorinated dibenzodioxins (dioxins)
PCDF = polychlorinated dibenzofurans (furans)
TEQ = toxic equivalency
Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).
Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Appendix G:
Marine Water Receiving Environment Results

Table G-1:
Marine Water 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]	0.016-0.019 [3,4]
Station	**Position in Water Column**	**Sample ID**	**Lab ID**	**Sampling Date**		
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA25D2733-001	2025-12-06	<0.000020	<0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA25D2733-002	2025-12-06	0.000021	<0.0050
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA25D2733-003	2025-12-06	0.000026	<0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA25D2733-004	2025-12-06	<0.000020	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m-DUP	VA25D2733-005	2025-12-06	0.000022	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA25D2733-006	2025-12-06	0.000020	<0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA25D2733-009	2025-12-06	0.000026	<0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA25D2733-010	2025-12-06	0.000021	<0.0050
WQR2	2 m Below Surface	WQR2-2m	VA25D2733-011	2025-12-06	0.000023	<0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA25D2733-012	2025-12-06	0.000032	<0.0050

Notes:
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. Non-detect results are screened using the detection limit value.