



## TECHNICAL MEMORANDUM

---

**To:** Ian McAllister, Ashleigh Crompton, Mike Champion,  
Mark Zan and Ryan Schucroft (Woodfibre LNG) **Date:** 13 Feb 2026

**From:** Holly Pelletier and Cheng Kuang (Lorax) **Project #:** A633-9

**Subject:** PE-111578 Weekly Discharge and Compliance Report #100 for February 1 – 7

---

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 #100) was prepared by Lorax and summarizes WDA monitoring conducted for the period of February 1 – 7. 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 #100 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 and Appendix C for contact water and treated water 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<sup>3</sup>/day (East WWTP) and 120 m<sup>3</sup>/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<sup>3</sup>/day of contact water and consists of six parallel treatment trains (Trains 1 to 6), each with an installed capacity of 2,450 m<sup>3</sup>/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 February 1 – 7 monitoring period, with precipitation recorded each day except on February 4. The total precipitation amount from February 1 – 7 was 97.6 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
2026-02-01	28.4	9.1	6.4	Rain
2026-02-02	10.0	9.2	6.3	Rain
2026-02-03	7.0	10.6	6.0	Rain
2026-02-04	0	12.3	6.1	Mix of Sun and Cloud
2026-02-05	0.2	16.8	4.6	Mix of Sun and Cloud
2026-02-06	0.8	10.3	3.3	Mix of Sun and Cloud
2026-02-07	51.2	8.8	6.2	Heavy Rain

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

From February 1 – 7, the East Sedimentation Pond received water from the M09 Sump, the 6403 Sump, the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). A total of 1,172 m<sup>3</sup> from the East Sedimentation Pond was transferred to the West Sedimentation Pond from February 1 – 7 (Appendix B, Table B-4).

Routine operation of the East WWTP continued during the monitoring period (February 1 – 7). 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 (February 1 – 7). Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-4).

From February 1 – 7, 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 (February 1 – 7) and either recirculated back to the pond or intermittently discharged to Howe Sound. A total of 5,167 m<sup>3</sup> of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT each day during the monitoring period (February 1 – 7) except on February 5. 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-5).

## 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 manhole.

- 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 OUT-01, OUT-02, OUT-06, SW-02, SW-03, SW-07, SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT, and W2700T2-OUT during the monitoring period (February 1 – 7). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (February 1 – 7) 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. The PE-111578 monthly monitoring requirements for January were also met.

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 (February 1 – 7). Daily field parameters were not collected at the influent and effluent stations of the East WWTP (WWTP-E-IN and WWTP-E-OUT, respectively) on February 4 and 5 as the East WWTP was not operated at the time of monitoring. Daily field parameters and a weekly analytical sample were not collected at the influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) as it was not operational during the monitoring period (February 1 – 7).

**Table 2:  
Summary of PE-111578 Monitoring Samples Collected February 1 – 7.**

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
February 1, 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 <sub>2</sub> , 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		
	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
	W2700T2-OUT	2700GPM TSS settling system at the outlet of Train 2		
February 2, 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 SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	OUT-01	Non-contact water diversion ditch outlet	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	M
	OUT-02	Non-contact water diversion ditch outlet		
OUT-06	Non-contact water diversion ditch outlet			
February 3, 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 <sub>2</sub> , 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 <sub>2</sub> , W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	COMB-WWTP-E-IN	Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	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 SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
February 4, 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	Residual West Sedimentation Pond clarified effluent, 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	Field Parameters.	D
February 5, 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	Residual West Sedimentation Pond clarified effluent, 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	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
February 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 SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	D

**Table 2 (continued):  
Summary of PE-111578 Monitoring Samples Collected February 1 – 7.**

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
February 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 SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M
	SW-03	Mill Creek Estuary		
	SW-07	Upstream Mill Creek (at the diversion inlet)		

**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<sub>2</sub> – 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 #100) are listed below in Table 3, with additional field measurements presented in Table B-3 (Appendix B) and Table C-4 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- SP-W-IN, SP-W-OUT and 2700GPM-IN collected January 4 (dioxins and furans);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected January 5 (dioxins and furans);
- SW-01, SW-02, SW-03, SW-04 and SW-07 collected January 5 (dioxins and furans);
- SP-W-OUT and 2700GPM-IN collected January 11 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected January 11 (dioxins and furans);
- SP-E-OUT collected January 12 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected January 14 (dioxins and furans);
- SP-W-IN, 2700GPM-IN and SP-W-OUT collected February 1 (dioxins and furans);
- OUT-01, OUT-02 and OUT-06 collected February 2 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected February 3 (total mercury, methylmercury, dioxins and furans);
- COMB-WWTP-E-IN collected February 3 (total mercury and methylmercury);
- SW-02, SW-03 and SW-07 collected February 7 (field and all analytical results).

**Table 3:  
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #100.**

Sample	Description	Sampling Date	Parameters Reported
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	February 1, 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.
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	February 3, 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		
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		Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.

### 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 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 February 1 – 7, as well as analytical results for samples collected February 3 (stations SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT). Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected February 1 – 7 and the analytical sample collected February 3 met MDOs except for dissolved oxygen on February 6 (7.29 mg/L; Appendix B, Table B-3).

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from February 1 – 7 (Section 1.2; Table B-4 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 5,167 m<sup>3</sup> 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 (February 1 – 7) except on February 5.

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected February 1 – 7, as well as analytical samples collected February 1 (stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T1-OUT and W2700T2-OUT). Field measurements collected February 1 – 7 and the analytical sample collected at SP-W-OUT on February 1 met PE-111578 discharge limits and WQGs (Appendix C, Table C-2 through Table C-4).

### **3.5 Non-Contact Water Diversion Ditch Outlets**

Analytical results for non-contact water diversion ditch outlet samples were not available at the time of reporting.

### **3.6 Freshwater and Estuarine Water Receiving Environment**

Analytical results for freshwater and estuarine water samples were not available at the time of reporting.

### **3.7 Marine Water Receiving Environment**

Analytical results for marine water 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 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
<b>Reporting Period (February 1 – 7, Report #100)</b>		
<b>Authorized Works and Monitoring Program Evaluation</b>	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.
<b>Report #100: Pending Data</b>	Analytical results not reported.	Field parameters and analytical results for non-contact water diversion ditch outlet and receiving environment samples collected February 2 and 7, respectively, as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected February 1 and 3 are pending and will be included in future weekly reports when available. This item remains open.
<b>Ongoing Items from Previous Weekly Reports</b>		
<b>Report #96: Pending Data</b>	Analytical results not reported.	Dioxins and furans results for contact and treated water samples collected January 4 and 5 and for receiving environment samples collected January 5 are pending and will be included in future weekly reports when available. This item remains open.
<b>Report #97: Pending Data</b>	Analytical results not reported.	Dioxins and furans results for receiving environment samples collected January 11 and 14 and contact and treated water samples collected January 11 and 12 are pending and will be included in future weekly reports when available. This item remains open.
<b>Report #98: WWTP Performance Evaluation</b>	Hexavalent chromium above the MDO.	This item was first noted in Report #98. The hexavalent chromium concentrations were 0.00154 and 0.00153 mg/L in the samples collected at WWTP-E-OUT on January 20 and 28, respectively, and were above the MDO (0.0015 mg/L). Hexavalent chromium met the MDO in the sample collected at WWTP-E-OUT on February 3 (0.00081 mg/L). The WWTP treatment performance for hexavalent chromium will continue to be evaluated through the end of February 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. 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

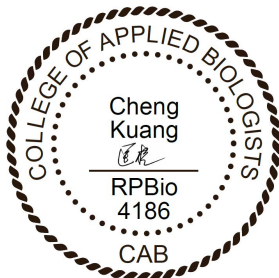
This weekly report is a desktop review by Lorax of the PE-111578 discharge and compliance monitoring program records, reports and results provided by Woodfibre LNG and prime contractor McDermott International and their sub-contractors. The records reviewed and analyzed by Lorax include ALS Environmental 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**

***Appendix A:  
Figures and Site Images***



World Imagery: District of Squamish. Additional imagery provided by McDermott International captured February 2nd, 2026.

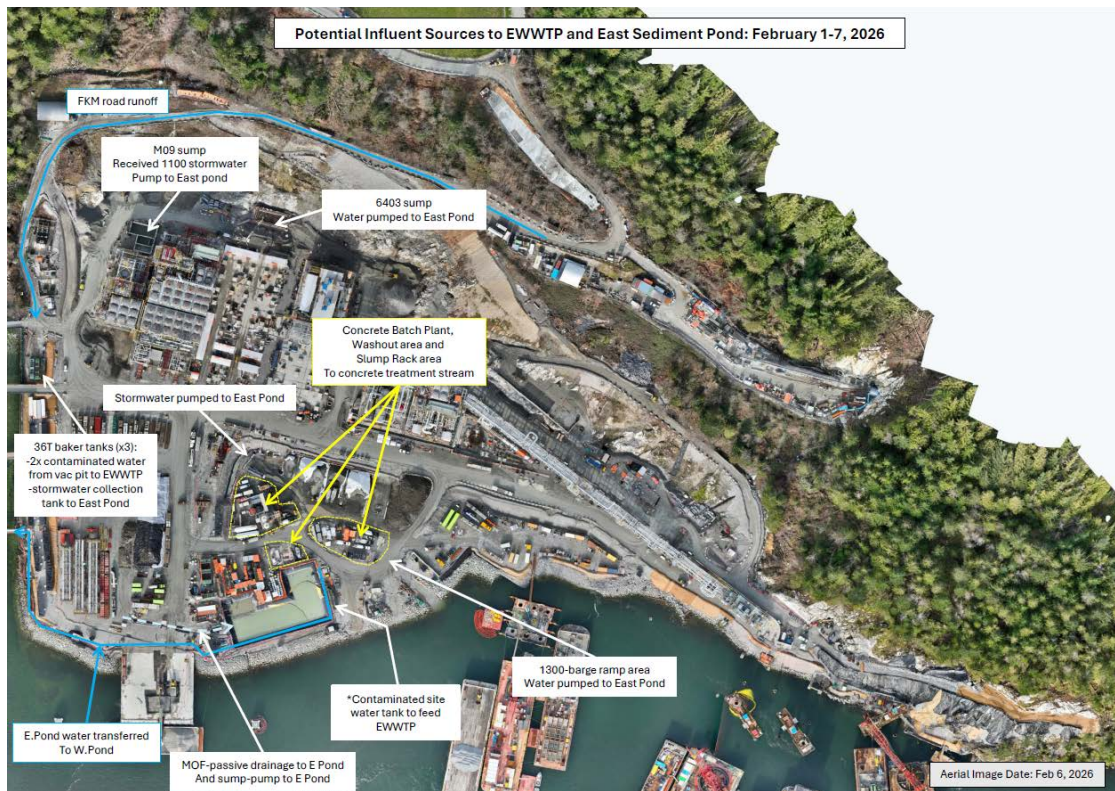
LEGEND	
	Freshwater Monitoring Station
	Marine Water Monitoring Station
	Clean Water Diversion Discharge Station
	Sedimentation Pond Monitoring Stations (Water Quality)
	Wastewater Treatment Plant (WWTP)
	Certified Project Area
	Watercourse
	Non-Contact Ditch
	Culvert / Outfall / Pipeline
	Non-Contact Water Transfer Hose
	Bathymetry Contour (Major: 50m)
	Bathymetry Contour (Minor: 10m)

<b>DATE SAVED:</b>	Feb 13, 2026
<b>DRAWN BY:</b>	DM
<b>REVIEWED:</b>	PM
<b>VERSION:</b>	1

<b>Coordinate System:</b>	NAD 1983 UTM Zone 10N
<b>Projection:</b>	Transverse Mercator
<b>Datum:</b>	North American 1983
<b>Units:</b>	Metre
<b>Scale:</b>	1:6,000

CLIENT:

<b>PROJECT:</b>	<b>Woodfibre LNG Project Construction Phase</b>
<b>TITLE:</b>	Site Layout and Water Quality Monitoring Stations for PE-111578 (February 7, 2026)
<b>PROJECT #:</b>	A633-9
<b>FIGURE:</b>	1



**Figure 2: East Catchment contact water management facilities (February 1 – 7).**



**Figure 3: West Catchment contact water management facilities (February 1 – 7).**



**Figure 4:** Aerial view of the East Sedimentation Pond (February 6, 2026). The East WWTP is located on the left side of the pond.



**Figure 5:** Aerial view of the West Sedimentation Pond (February 6, 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 <sup>1</sup>		PE-111578 Discharge Limit	Station WWTP-E-IN	Station COMB-WWTP-E-IN	Station WWTP-E-OUT
					Influent	Influent	Effluent
					WWTP-E-IN	COMB-WWTP-E-IN	WWTP-E-OUT
					VA26A2566-002 2026-02-03 9:46	VA26A2566-005 2026-02-03 10:47	VA26A2566-008 2026-02-03 15:00
Long Term		Short Term					
<b>General Parameters</b>							
pH - Field	pH units	- <sup>2</sup>	-	5.5 - 9.0	7.3	-	6.7
Specific Conductivity - Field	µS/cm	-	-	-	405	-	495
Temperature - Field	°C	-	-	-	10.2	-	9.6
Salinity - Field	ppt	-	-	-	0.2	-	0.24
Turbidity - Field	NTU	-	-	-	132.17	85.1	2.85
TSS	mg/L	-	-	25 or 75 <sup>6</sup>	<b>27.1</b>	<b>40.7</b>	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.45	-	11.58
Total Hardness	mg/L	-	-	-	49.2	69.9	12.4
Dissolved Hardness	mg/L	-	-	-	34.3	62.2	12.8
<b>Anions and Nutrients</b>							
Sulphate	mg/L	-	-	-	90.9	250	118
Chloride	mg/L	-	-	-	3.24	3.15	3.27
Fluoride	mg/L	-	1.5	-	0.051	<0.100	0.051
Ammonia (N-NH <sub>3</sub> )	mg/L	12-29 <sup>3</sup>	83-191 <sup>3</sup>	-	<0.0050	0.0203	0.0056
Nitrite (N-NO <sub>2</sub> )	mg/L	-	-	-	0.0093	0.0098	0.0068
Nitrate (N-NO <sub>3</sub> )	mg/L	3.7	339	-	0.137	0.16	0.135
Total Organic Carbon (TOC)	mg/L	-	-	-	2.06	1.89	1.00
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.26	1.57	1.17
<b>Total Metals</b>							
Aluminum, total (T-Al)	mg/L	-	-	-	6.34	2.63	0.0477
Antimony, total (T-Sb)	mg/L	-	0.27 <sup>4</sup>	-	0.00066	0.00078	0.0006
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00165	0.00152	0.00065
Barium, total (T-Ba)	mg/L	-	-	-	0.0536	0.0599	0.00129
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000104	0.000048	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.024	0.027	0.021
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000507	0.0000456	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	0.0025	0.00703	0.00085
Cobalt, total (T-Co)	mg/L	-	-	-	0.00185	0.00081	<0.00010
Copper, total (T-Cu)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0043	<b>0.00758</b>	<b>0.00527</b>	0.00213
Iron, total (T-Fe)	mg/L	-	-	-	4.81	2.52	0.015
Lead, total (T-Pb)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0035	0.00336	0.00175	0.000098
Manganese, total (T-Mn)	mg/L	-	-	-	0.233	0.103	0.00224
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0271	0.0362	0.0271
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00185	0.00153	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000183	0.000276	0.000132
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000011	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000015	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00211	0.00161	0.00205
Vanadium, total (T-V)	mg/L	- <sup>2</sup>	-	0.0081	<b>0.00909</b>	0.00572	0.00121
Zinc, total (T-Zn)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0133	<b>0.0369</b>	<b>0.0217</b>	0.0036
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00071	<b>0.00266</b>	0.00081
<b>Dissolved Metals</b>							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000250	<0.0000100	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00078	0.00085	0.00116
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.011	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0431	0.00328	0.00188
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0643	0.294	0.0492
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00122	0.00215	0.00113
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0041	<0.0010	0.002
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>							
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	<0.000010
Acridine	mg/L	-	-	-	<0.000010	-	<0.000010
Anthracene	mg/L	-	-	-	<0.000010	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000010	-	<0.000010
Fluoranthene	mg/L	-	-	-	0.000012	-	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	0.000011	-	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	-	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020	-	<0.000020
Pyrene	mg/L	-	-	-	0.000013	-	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	-	<0.000050
<b>Volatile Organic Compounds (VOCs)</b>							
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 (February 1 – 7).

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

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

<sup>5</sup> When MeHg ≤ 0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.

<sup>6</sup> 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 <sup>1</sup>		PE-111578 Discharge Limit	Station SP-E-IN
		Long Term	Short Term		Influent
					VA26A2566-001 2026-02-03 11:10
<b>General Parameters</b>					
pH - Field	pH units	- <sup>2</sup>	-	5.5 - 9.0	6.8
Specific Conductivity - Field	µS/cm	-	-	-	421
Temperature - Field	°C	-	-	-	9.2
Salinity - Field	ppt	-	-	-	0.2
Turbidity - Field	NTU	-	-	-	8.37
TSS	mg/L	-	-	25 or 75 <sup>6</sup>	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.92
Total Hardness	mg/L	-	-	-	14.1
Dissolved Hardness	mg/L	-	-	-	13.5
<b>Anions and Nutrients</b>					
Sulphate	mg/L	-	-	-	89.1
Chloride	mg/L	-	-	-	3.25
Fluoride	mg/L	-	1.5	-	0.052
Ammonia (N-NH <sub>3</sub> )	mg/L	29 <sup>3</sup>	191 <sup>3</sup>	-	0.0051
Nitrite (N-NO <sub>2</sub> )	mg/L	-	-	-	0.0082
Nitrate (N-NO <sub>3</sub> )	mg/L	3.7	339	-	0.135
Total Organic Carbon (TOC)	mg/L	-	-	-	1.12
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.12
<b>Total Metals</b>					
Aluminum, total (T-Al)	mg/L	-	-	-	0.43
Antimony, total (T-Sb)	mg/L	-	0.27 <sup>4</sup>	-	0.00066
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00071
Barium, total (T-Ba)	mg/L	-	-	-	0.00513
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.022
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	0.00082
Cobalt, total (T-Co)	mg/L	-	-	-	0.00015
Copper, total (T-Cu)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0043	0.00119
Iron, total (T-Fe)	mg/L	-	-	-	0.29
Lead, total (T-Pb)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0035	0.00031
Manganese, total (T-Mn)	mg/L	-	-	-	0.0169
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0279
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000168
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00178
Vanadium, total (T-V)	mg/L	- <sup>2</sup>	-	0.0081	0.00172
Zinc, total (T-Zn)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0133	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
<b>Dissolved Metals</b>					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000150
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00063
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00796
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0403
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00112
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0014
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>					
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
<b>Volatile Organic Compounds (VOCs)</b>					
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 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 (February 1 – 7).

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

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

<sup>5</sup> When MeHg ≤ 0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.

<sup>6</sup> 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 Field Measurements Collected During the Monitoring Period (February 1 – 7).**

Parameter	Temp.	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS <sup>3</sup>	pH	Specific Conductivity	Visibility of Sheen		
Unit	°C	mg/L	ppt	NTU	mg/L	s.u.	µS/cm			
<b>PE-111578 Discharge Limit</b>	-	-	-	-	25 or 75 <sup>6</sup>	5.5 - 9.0	-	-		
<b>Lowest Applicable Guideline<sup>1</sup></b>	-	≥8	-	-	- <sup>2</sup>	- <sup>2</sup>	-	-		
Station ID	Water Type	Date								
<b>Influent<sup>4</sup></b>										
SP-E-IN	Influent	2026-02-01 16:10	7.7	12.07	0.21	283.64	214.5	6.6	444	No
SP-E-IN	Influent	2026-02-02 11:12	8.1	12.21	0.14	166.49	127.2	7.2	290	No
SP-E-IN	Influent	2026-02-03 11:10	9.2	11.92	0.20	8.37	9.2	6.8	421	No
SP-E-IN	Influent	2026-02-04 12:57	8.9	11.47	0.16	32.13	27.0	8.0	334	No
SP-E-IN	Influent	2026-02-05 9:49	8.0	12.29	0.39	29.17	24.8	7.1	784	No
SP-E-IN	Influent	2026-02-06 15:12	8.6	11.47	0.31	113.98	88.0	7.5	638	No
SP-E-IN	Influent	2026-02-07 14:53	7.8	11.74	0.30	594.74	446.6	6.9	614	No
WWTP-E-IN	Influent	2026-02-01 16:14	7.7	11.96	0.18	423.17	318.6	6.6	367	No
WWTP-E-IN	Influent	2026-02-02 11:08	8.0	12.10	0.18	352.68	266.0	6.9	382	No
WWTP-E-IN	Influent	2026-02-03 9:46	10.2	11.45	0.20	132.17	101.6	7.3	405	No
WWTP-E-IN	Influent	2026-02-06 17:27	8.3	11.49	0.32	42.06	34.4	6.8	660	No
WWTP-E-IN	Influent	2026-02-07 14:59	8.8	11.70	0.31	803.93	602.6	7.2	638	No
<b>Effluent<sup>5</sup></b>										
WWTP-E-OUT	Effluent	2026-02-01 16:27	8.3	11.87	0.37	1.85	4.4	6.5	763	No
WWTP-E-OUT	Effluent	2026-02-02 11:05	8.6	12.37	0.2	1.65	4.2	7.2	412	No
WWTP-E-OUT	Effluent	2026-02-03 10:02	8.9	12.19	0.20	1.04	3.8	6.9	417	No
WWTP-E-OUT	Effluent	2026-02-03 15:00	9.6	11.58	0.24	2.85	5.1	6.7	495	No
WWTP-E-OUT	Effluent	2026-02-06 17:25	9.2	<b>7.29</b>	0.51	2.28	4.7	6.7	1033	No
WWTP-E-OUT	Effluent	2026-02-07 15:28	8.5	11.37	0.67	3.31	5.5	7.0	1327	No

**Notes:**

The east catchment did not discharge to Howe Sound during the monitoring period (February 1 – 7). 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.

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> TSS concentration is estimated from field turbidity measurements using a site-specific relationship  $TSS = 0.7458 * [\text{turbidity as NTU}] + 3$ .

<sup>4</sup> Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field parameters were not collected at the influent station to the East WWTP (WWTP-E-IN) on February 4 and 5 as the East WWTP was not operated at the time of monitoring.

<sup>5</sup> There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (February 1 – 7), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field parameters were not collected at the effluent station to the East WWTP (WWTP-E-OUT) on February 4 and 5 as the East WWTP was not operated at the time of monitoring.

<sup>6</sup> 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-4:  
East Catchment Daily Discharge Volumes for the Monitoring Period (February 1 – 7).**

	East Sedimentation Pond Effluent	Transfer to West Sedimentation Pond	East WWTP Treated Effluent (Station WWTP-E-OUT) <sup>2</sup>	Discharge to Howe Sound (Station SP-E-OUT)
Units	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>
<b>PE-111578 Discharge Limit</b>	-	-	1100	- <sup>1</sup>
<b>Date</b>				
2026-02-01	0	0	495	0
2026-02-02	0	1,172	530	0
2026-02-03	0	0	347	0
2026-02-04	0	0	133	0
2026-02-05	0	0	339	0
2026-02-06	0	0	232	0
2026-02-07	0	0	548	0

**Notes:**

Results in **orange text** exceed the PE-111578 East Sedimentation Pond Discharge Limit.

<sup>1</sup> 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<sup>3</sup>/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.

<sup>2</sup> 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 <sup>1</sup>		PE-111578 Discharge Limit	Station 2700GPM-IN	Station W2700T1-OUT	Station W2700T2-OUT
					Influent	Effluent	Effluent
					2700GPM-IN	W2700T1-OUT	W2700T2-OUT
					VA26A2400-002 2026-02-01 15:14	VA26A2400-003 2026-02-01 15:07	VA26A2400-004 2026-02-01 14:50
		Long Term	Short Term				
<b>General Parameters</b>							
pH - Field	pH units	- <sup>2</sup>	-	5.5 - 9.0	7.6	7.4	7.4
Specific Conductivity - Field	µS/cm	-	-	-	275	266	266
Temperature - Field	°C	-	-	-	8.3	8.3	8.4
Salinity - Field	ppt	-	-	-	0.13	0.13	0.13
Turbidity - Field	NTU	-	-	-	147.32	1.4	2.66
TSS	mg/L	-	-	25 or 75 <sup>6</sup>	123	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.89	11.5	11.56
Total Hardness	mg/L	-	-	-	70.8	49.8	50.3
Dissolved Hardness	mg/L	-	-	-	53.6	53.3	52.2
<b>Anions and Nutrients</b>							
Sulphate	mg/L	-	-	-	51.2	48.4	48.2
Chloride	mg/L	-	-	-	3.06	3.22	3.22
Fluoride	mg/L	-	1.5	-	0.064	0.069	0.068
Ammonia (N-NH <sub>3</sub> )	mg/L	7.2-12 <sup>3</sup>	48-78 <sup>3</sup>	-	0.0073	<0.0050	<0.0050
Nitrite (N-NO <sub>2</sub> )	mg/L	-	-	-	0.0062	0.0059	0.0058
Nitrate (N-NO <sub>3</sub> )	mg/L	3.7	339	-	0.145	0.13	0.129
Total Organic Carbon (TOC)	mg/L	-	-	-	3.25	1.96	1.84
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.88	1.82	1.84
<b>Total Metals</b>							
Aluminum, total (T-Al)	mg/L	-	-	-	8.89	0.0678	0.117
Antimony, total (T-Sb)	mg/L	-	0.27 <sup>4</sup>	-	0.00066	0.0006	0.00057
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00357	0.00113	0.00112
Barium, total (T-Ba)	mg/L	-	-	-	0.0697	0.00308	0.0036
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000143	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.015	0.011	0.011
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.000112	<0.0000050	<0.0000050
Chromium, total (T-Cr)	mg/L	-	-	-	0.0027	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00235	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0043	0.0091	0.00137	0.00098
Iron, total (T-Fe)	mg/L	-	-	-	6.85	0.023	0.05
Lead, total (T-Pb)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0035	0.00748	0.000117	0.000163
Manganese, total (T-Mn)	mg/L	-	-	-	0.266	0.0314	0.0298
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0121	0.0113	0.0111
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00179	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000066	<0.000050	0.000061
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000031	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000043	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00481	0.00378	0.00396
Vanadium, total (T-V)	mg/L	- <sup>2</sup>	-	0.0081	0.0115	0.00086	0.0009
Zinc, total (T-Zn)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0133	0.0404	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
<b>Dissolved Metals</b>							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000050	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00092	0.0009	0.00093
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	0.000056	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.033	0.0321	0.0293
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.061	0.0585	0.0578
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00099	0.00079	0.00078
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	0.0013	0.0013
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>							
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	-
Acridine	mg/L	-	-	-	<0.000010	-	-
Anthracene	mg/L	-	-	-	<0.000010	-	-
Benz(a)anthracene	mg/L	-	-	-	0.000014	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	<b>0.000014</b>	-	-
Chrysene	mg/L	0.0001	-	-	<0.000014	-	-
Fluoranthene	mg/L	-	-	-	0.000028	-	-
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	-	-	-	0.000022	-	-
Pyrene	mg/L	-	-	-	0.000033	-	-
Quinoline	mg/L	-	-	-	<0.000050	-	-
<b>Volatile Organic Compounds (VOCs)</b>							
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 (February 1 – 7) except on February 5.

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

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

<sup>5</sup> When MeHg ≤ 0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.

<sup>6</sup> 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 <sup>1</sup>		PE-111578 Discharge Limit	Station SP-W-IN	Station SP-W-OUT	Station SP-W-OUT
					Influent	Effluent	Effluent
		SP-W-IN	SP-W-OUT		SP-W-OUT-DUP		
		VA26A2400-001 2026-02-01 16:48	VA26A2400-005 2026-02-01 14:20		VA26A2400-006 2026-02-01 14:27		
		Long Term	Short Term				
<b>General Parameters</b>							
pH - Field	pH units	- <sup>2</sup>	-	5.5 - 9.0	7.3	6.7	7.1
Specific Conductivity - Field	µS/cm	-	-	-	289.6	271	265
Temperature - Field	°C	-	-	-	7.7	7.9	8.1
Salinity - Field	ppt	-	-	-	0.14	0.13	0.13
Turbidity - Field	NTU	-	-	-	378.12	3.23	2.45
TSS	mg/L	-	-	25 or 75 <sup>6</sup>	249	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.17	11.91	11.64
Total Hardness	mg/L	-	-	-	99.7	49.5	50.3
Dissolved Hardness	mg/L	-	-	-	56.7	52.5	53.0
<b>Anions and Nutrients</b>							
Sulphate	mg/L	-	-	-	50.8	48.4	48.5
Chloride	mg/L	-	-	-	3.46	3.24	3.24
Fluoride	mg/L	-	1.5	-	0.075	0.07	0.067
Ammonia (N-NH <sub>3</sub> )	mg/L	18-29 <sup>3</sup>	121-191 <sup>3</sup>	-	0.0089	<0.0050	<0.0050
Nitrite (N-NO <sub>2</sub> )	mg/L	-	-	-	0.0066	0.0057	0.0058
Nitrate (N-NO <sub>3</sub> )	mg/L	3.7	339	-	0.2	0.129	0.129
Total Organic Carbon (TOC)	mg/L	-	-	-	4.53	1.98	1.74
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	1.79	1.95	2.14
<b>Total Metals</b>							
Aluminum, total (T-Al)	mg/L	-	-	-	18.8	0.0952	0.0968
Antimony, total (T-Sb)	mg/L	-	0.27 <sup>4</sup>	-	0.00068	0.00058	0.00059
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00504	0.00114	0.00112
Barium, total (T-Ba)	mg/L	-	-	-	0.149	0.00337	0.00342
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000313	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.024	0.011	0.011
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<b>0.000222</b>	<0.0000100	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.0057	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00519	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0043	0.0186	0.00173	0.00253
Iron, total (T-Fe)	mg/L	-	-	-	14.9	0.04	0.043
Lead, total (T-Pb)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0035	0.014	0.000186	0.000229
Manganese, total (T-Mn)	mg/L	-	-	-	0.595	0.0306	0.0307
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0135	0.0113	0.0113
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00376	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000107	0.000066	0.000054
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000061	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000069	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00693	0.00392	0.00393
Vanadium, total (T-V)	mg/L	- <sup>2</sup>	-	0.0081	0.0248	0.00087	0.00087
Zinc, total (T-Zn)	mg/L	- <sup>2</sup>	- <sup>2</sup>	0.0133	0.085	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
<b>Dissolved Metals</b>							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000150	<0.0000050	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00097	0.00078	0.00076
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010	0.01
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	0.000057
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0344	0.031	0.0306
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0687	0.0592	0.0591
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00132	0.00075	0.00079
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0012	0.0012	0.0012
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>							
Acenaphthene	mg/L	0.006	-	-	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	-	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	-	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	-	0.00002	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<b>0.0000212</b>	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000019	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	-	0.000043	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	0.000029	<0.000020	<0.000020
Pyrene	mg/L	-	-	-	0.00005	<0.000010	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	<0.000050	<0.000050
<b>Volatile Organic Compounds (VOCs)</b>							
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 (February 1 – 7) except on February 5.

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.

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

<sup>5</sup> When MeHg ≤ 0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.

<sup>6</sup> 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 <sup>1</sup>					0.0001 <sup>2</sup>	0.0044-0.018 <sup>3,4</sup>
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A2400-001	2026-02-01	<b><u>0.000199</u></b>	<b><u>0.0358</u></b>
2700GPM-IN	Influent	2700GPM-IN	VA26A2400-002	2026-02-01	0.000093	<b><u>0.0198</u></b>
Effluent						
SP-W-OUT	Effluent	SP-W-OUT	VA26A2400-005	2026-02-01	<0.000020	0.00108
SP-W-OUT	Effluent	SP-W-OUT-DUP	VA26A2400-006	2026-02-01	<0.000020	0.00101
W2700T1-OUT	Effluent	W2700T1-OUT	VA26A2400-003	2026-02-01	<0.000020	0.00096
W2700T2-OUT	Effluent	W2700T2-OUT	VA26A2400-004	2026-02-01	0.000024	0.00105

**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.

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

<sup>2</sup> 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.

<sup>3</sup> CCME guideline for total mercury = 0.016 µg/L.

<sup>4</sup> 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 Field Measurements Collected During the Monitoring Period (February 1 – 7).**

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS <sup>3</sup>	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 <sup>6</sup>	5.5 - 9.0	-	-
Lowest Applicable Guideline <sup>1</sup>			-	≥8	-	-	- <sup>2</sup>	- <sup>2</sup>	-	-
Station ID	Water Type	Date								
Influent <sup>4</sup>										
SP-W-IN	Influent	2026-02-01 16:48	7.7	12.17	0.14	378.12	285.0	7.3	290	No
SP-W-IN	Influent	2026-02-02 10:38	7.8	12.82	0.10	95.63	74.3	7.5	213	No
SP-W-IN	Influent	2026-02-03 11:49	8.3	12.59	0.10	16.52	15.3	7.3	207	No
SP-W-IN	Influent	2026-02-04 12:39	9.4	11.73	0.18	292.81	221.4	8.5	375	No
SP-W-IN	Influent	2026-02-05 10:13	7.8	12.66	0.13	7.16	8.3	7.9	271	No
SP-W-IN	Influent	2026-02-06 13:24	8.1	13.04	0.14	5.45	7.1	7.9	297	No
SP-W-IN	Influent	2026-02-07 14:45	7.9	12.36	0.21	379.46	286.0	6.2	435	No
2700GPM-IN	Influent	2026-02-01 15:14	8.3	11.89	0.13	147.32	112.9	7.6	275	No
2700GPM-IN	Influent	2026-02-02 10:31	7.8	12.18	0.11	155.28	118.8	7.5	235	No
2700GPM-IN	Influent	2026-02-03 11:45	8.4	12.36	0.1	21.83	19.3	7.2	207	No
2700GPM-IN	Influent	2026-02-05 10:09	7.85	12.11	0.13	10.43	10.8	7.9	276	No
2700GPM-IN	Influent	2026-02-06 14:36	8.6	12.34	0.14	5.11	6.8	7.9	299	No
2700GPM-IN	Influent	2026-02-07 14:03	8.4	12.05	0.18	194.02	147.7	8.0	378	No
Effluent <sup>5</sup>										
SP-W-OUT	Effluent	2026-02-01 14:20	7.9	11.91	0.13	3.23	5.4	6.7	271	No
SP-W-OUT	Effluent	2026-02-01 14:27	8.1	11.64	0.13	2.46	4.8	7.1	265	No
SP-W-OUT	Effluent	2026-02-01 14:27	8.1	11.64	0.13	2.45	4.8	7.1	265	No
SP-W-OUT	Effluent	2026-02-01 16:43	8.4	11.56	0.13	2.51	4.9	7.0	273	No
SP-W-OUT	Effluent	2026-02-02 10:05	7.9	13.27	0.13	6.21	7.6	7.6	266	No
SP-W-OUT	Effluent	2026-02-02 16:44	8.4	13.53	0.10	5.75	7.3	7.6	214	No
SP-W-OUT	Effluent	2026-02-03 9:44	7.7	12.30	0.10	2.45	4.8	7.2	219	No
SP-W-OUT	Effluent	2026-02-04 12:45	8.3	12.69	0.09	6.56	7.9	8.1	196	No
SP-W-OUT	Effluent	2026-02-05 10:06	7.9	9.96	0.32	4.12	6.1	7.5	649	No
SP-W-OUT	Effluent	2026-02-06 13:02	8.7	11.83	0.14	2.76	5.1	7.7	286	No
SP-W-OUT	Effluent	2026-02-06 14:15	8.7	12.22	0.14	5.67	7.2	7.4	297	No
SP-W-OUT	Effluent	2026-02-07 14:11	8.6	12.53	0.16	6.47	7.8	8.0	324	No

**Notes:**

West catchment influents for February 1 – 7 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.

<sup>1</sup> The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

<sup>2</sup> The WQG was not evaluated for parameters with discharge limits.

<sup>3</sup> TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 \* [turbidity as NTU] + 3.

<sup>4</sup> Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.

<sup>5</sup> 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 (February 1 – 7) except on February 5. Field measurements collected February 4 and 5 at SP-W-OUT were collected from residual water in the sampling port as there was no discharge to Howe Sound at the time of monitoring.

<sup>6</sup> 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-5:  
West Catchment Daily Discharge Volumes for the Monitoring Period (February 1 – 7).**

	West Sedimentation Pond Effluent	West TSS Settling System (2700GPM) Clarified Effluent (Station 2700GPM-OUT) <sup>3</sup>	Water Reclaimed for Construction Purposes (Station 2700GPM-OUT)	West WWTP Treated Effluent <sup>1</sup> (Station WWTP-W-OUT)	Discharge to Howe Sound (Station SP-W-OUT)
Unit	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>
<b>PE-111578 Discharge Limit</b>	-	-	-	120	- <sup>2</sup>
<b>Date</b>					
2026-02-01	0	3,430	0	0	1,242
2026-02-02	0	3,246	0	0	1,405
2026-02-03	0	1,596	0	0	237
2026-02-04	0	1,495	0	0	504
2026-02-05	0	2,027	0	0	0
2026-02-06	0	3,455	0	0	429
2026-02-07	0	5,074	0	0	1,350

**Notes:**

Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.

<sup>1</sup> The West WWTP is not being operated therefore discharges are not expected from this facility.

<sup>2</sup> 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<sup>3</sup>/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.

<sup>3</sup> 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.