TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 19 June 2026**
From:	**Cheng Kuang and Patrick Mueller (Lorax)**	**Project #: A825-1**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #118 for June 7 – 13**	

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 #118) was prepared by Lorax and summarizes WDA monitoring conducted for the period of June 7 – 13. 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 #118 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 D for contact water, treated water and receiving environment samples.

1. Current Conditions

1.1 Water Management Infrastructure

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

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

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

The East and West WWTPs were commissioned to treat contaminated contact water in April and August 2024, respectively. The installed treatment capacities are 1,080 m^3/day (East WWTP) and 120 m^3/day (West WWTP). Lower than expected volumes of contaminated contact water have been encountered during construction; therefore, operation of the West WWTP has been suspended since September 25, 2024, and all contaminated contact waters are directed to the East WWTP for treatment. Treated effluent is generally directed to the East Sedimentation Pond. Occasionally the East WWTP effluent is discharged to Howe Sound at authorized discharge location SP-E-OUT.

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

The flocculant-based 2700GPM TSS settling system has an installed capacity to clarify 14,700 m^3/day of contact water and consists of six parallel treatment trains (Trains 1 to 6), each with an installed capacity of 2,450 m^3/day. A staged commissioning of the 2700GPM system began June 2025 and was completed November 2025. Only one train is operated when contact water flows are low. Additional trains are activated as needed to match the influent volumes. Some of the TSS-clarified water may be recirculated back to the ponds or re-used for construction purposes (*e.g.*, dust suppression).

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

1.2 Weather and Water Management

Variable weather conditions were observed during the June 7 – 13 monitoring period, with precipitation recorded on June 7 (2.8 mm), June 8 (3.4 mm) and June 9 (30.4 mm). The total precipitation amount during the monitoring period was 36.6 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
2026-06-07	2.8	16.9	10.3	Light rain
2026-06-08	3.4	16.5	9.3	Light rain
2026-06-09	30.4	15.5	10.6	Rain
2026-06-10	0	17.2	9.1	Sunny
2026-06-11	0	20.4	10.1	Sunny
2026-06-12	0	23.3	10	Sunny
2026-06-13	0	27.2	12.6	Sunny

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

From June 7 – 13, the East Sedimentation Pond received water from the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from June 7 – 13

(Appendix B, Table B-5). A small amount of East Sedimentation Pond water was passively discharged at SP-E-OUT on June 13.

Routine operation of the East WWTP continued during the monitoring period (June 7 – 13). Concrete contact water and water from the 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 (June 7 – 13). Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-5).

From June 7 – 13, the West Sedimentation Pond received water from the 4100 Sump and recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system on June 9 – June 13 and recirculated back to the pond. West Sedimentation Pond effluent was not discharged to Howe Sound during the monitoring period (June 7 – 13). A total of 350 m^3 of clarified effluent was reclaimed for construction use during the monitoring period (June 7 – 13). Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond or reclaimed for construction use are provided in Appendix C (Table C-4).

2. Monitoring Summary

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

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

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

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

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

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

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

Water quality was monitored at stations SW-01, SW-02, SW-03, SW-04, SW-07, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and W2700T1-OUT during the monitoring period (June 7 – 13). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (June 7 – 13) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.*, bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Daily field parameters and a weekly analytical sample were not collected at the east and west catchment effluent compliance stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound from the East and West Sedimentation Ponds during the monitoring period (June 7 – 13) except on June 13 when the East Sedimentation Pond passively discharged through SP-E-OUT. 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 (June 7 – 13).

Table 2:
Summary of PE-111578 Monitoring Samples Collected June 7 – 13.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
June 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
June 8, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-OUT	East WWTP at the effluent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
June 9, 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
June 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, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, Methylmercury, Dioxins and Furans.	D, M, M_2, W
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, Methylmercury, Dioxins and Furans.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, Methylmercury, Dioxins, Furans.	P, M
June 11, 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
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1	Field Parameters.	P
	OUT-02	Non-contact water diversion ditch outlet	Field, Physical & General Parameters, Total and Dissolved Metals, and Methylmercury.	M
June 12, 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
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1	Field Parameters.	P
June 13, 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	Field and Physical Parameters, Total and Dissolved Metals	D, P
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1	Field Parameters.	P

Notes:
Monitoring frequency requirements under PE-111578 are indicated as follows:
D – daily monitoring of field parameters at WWTP and sedimentation pond influent and effluent stations.
M – monthly monitoring for all parameters at WWTP, sedimentation pond and receiving environment stations. Monthly monitoring for General parameters, except ammonia, nitrate and nitrite (*i.e.*, nitrogen species) are monitored weekly during blasting season.
M_2 – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
W – weekly monitoring for metals, chromium speciation and methylmercury at WWTP and sedimentation pond influent and effluent stations, effective June 25, 2025.
P – periodic monitoring for targeted parameters that is supplementary to PE-111578 requirements.

3. Water Quality Results

3.1 Summary of Reported Results

Analytical results and associated field measurements included in this weekly report (Report #118) are listed below in Table 3, with additional field measurements presented in Table B-4 (Appendix B) and Table C-3 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- IDZ-E-SED collected May 17 (all analytical parameters);
- IDZ-W-SED collected May 18 (all analytical parameters);
- WWTP-E-OUT collected May 25 (dioxins, furans and acute toxicity);
- SP-W-IN and 2700GPM-IN collected May 25 (dioxins and furans);
- W2700T2-OUT collected May 25 (dioxins, furans and acute toxicity);
- IDZ-E1, IDZ-E2 and WQR1 collected May 26 (dioxins, furans and chronic toxicity);
- IDZ-W1, IDZ-W2 and WQR2 collected May 26 (dioxins, furans and chronic toxicity);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected June 3 (total mercury, methylmercury, dioxins and furans);
- SW-01 and SW-04 collected June 4 (field and all analytical parameters);
- SW-02, SW-03 and SW-07 collected June 5 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected June 8 (total mercury and methylmercury);
- SP-W-IN, 2700GPM-IN, and W2700T1-OUT collected June 10 (total mercury, methylmercury, dioxins and furans);
- OUT-02 collected June 11 (field and all analytical parameters);
- WWTP-E-OUT collected June 13 (physical parameters, dissolved and total metals)

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #118.

Sample	Description	Sampling Date	Parameters Reported
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	May 6, 2026	Total Mercury and 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		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	May 13, 2026	Dioxins and Furans.
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	May 20, 2026	Total Mercury and Methylmercury.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	June 1, 2026	Total Mercury and Methylmercury.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	June 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		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	June 8, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
2700GPM-IN	2700GPM TSS settling system at the influent meter box	June 10, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		

3.2 Screening and Reporting Overview

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

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

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

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

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

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

A summary of reported and pending results is provided in Section 3.1. Results for effluents from East WWTP, 2700GPM TSS settling system, and East and West Sedimentation Ponds are discussed in Section 3.3 and Section 3.4, respectively. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 3.7. Sediment samples are collected annually at stations IDZ-E-SED and IDZ-W-SED and are discussed in Section 3.7 when they are reported. Sediment samples were last collected July 2025 and the analytical results were presented in Report #82.

3.3 East Catchment

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

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected June 7 – 13 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT), as well as analytical results for samples collected June 3 (as discussed in Report #117) and June 8.

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected June 7 – 13 met MDOs (Appendix B, Table B-4). Nitrate was above the MDO in the WWTP-E-OUT samples collected June 3 and June 8, and total zinc was above the MDO on June 3 only. Parameters above MDOs are racked in Table 4.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound except on June 13 when the pond briefly discharged at SP-E-OUT (Section 1.2; Table B-5 of Appendix B). Water quality samples and field measurements were not collected at the SP-E-OUT discharge location from June 7 – 13.

Dioxins and furans results were available at the time of reporting for East Sedimentation Pond influent as well as East WWTP influent and effluent collected on May 13 (as discussed in Report #114). Results are presented in Appendix B, Table B-3.

3.4 West Catchment

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

As discussed in Section 1.2, clarified sedimentation pond effluent from the 2700GPM TSS Settling System was recirculated to the West Sedimentation Pond and did not discharge to Howe Sound from SP-W-OUT during the monitoring period (June 7 – 13). Therefore, water quality samples and field measurements were not collected at the SP-W-OUT discharge location.

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected June 7 – 13, as well as analytical samples collected June 10 (stations 2700GPM-IN and W2700T1-OUT; Appendix C, Table C-1).

Methylmercury analytical results were available at the time of reporting for influent and effluent samples of the West Sedimentation Pond and the 2700GPM TSS settling system (stations SP-W-IN, 2700GPM-IN and W2700T1-OUT) collected May 20 (as discussed in Report #115) and June 1 (as discussed in Report #117) in Appendix C, Table C-2.

3.5 Non-Contact Water Diversion Ditch Outlets

Analytical results for non-contact water diversion ditch outlets 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

Methylmercury analytical results were available at the time of reporting for all marine water samples collected May 6 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #113. For all samples, methylmercury concentrations ranged from <0.000020 to 0.000029 µg/L and met

the WQG. The corresponding total mercury results met WQGs. Results are tabulated in Appendix D, Table D-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 record keeping, 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 (June 7 – 13, Report #118)		
Authorized Works and Monitoring Program Evaluation	The authorized works and monitoring stations have not been established as described in PE-111578.	The PE-111578 authorized works for water management have been constructed, except for some of the conveyance ditches, which require completion of site grading prior to installation. Sumps, pumps and hoses are used for temporary conveyance until the ditches are completed. Outfall 11 (OUT-11) has been constructed but is not in use. This item remains open.
Report #118: Pending Data	Analytical results not reported.	Total mercury and methylmercury results for contact and treated water samples collected June 8 and June 10, dioxins and furans results collected June 10, and analytical results for WWTP-E-OUT collected June 13 are pending. Field and all analytical results for non-contact water diversion ditch sample collected June 11 are pending. Pending results will be included in future weekly reports when available. This item remains open.
Report #118: WWTP Performance Evaluation	Nitrate above the MDO.	Nitrate was above the MDO in the WWTP-E-OUT samples collected June 3 and June 8. Influent samples collected at WWTP-E-IN on these days had similar concentrations of nitrate. Potential sources of nitrate to the East WWTP are being reviewed. This item remains open.
Report #118: WWTP Performance Evaluation	Total zinc above the MDO.	Total zinc was above the MDO in duplicate WWTP-E-OUT samples collected on June 3 but met the MDO in a subsequent sample collected June 8. The WWTP treatment performance for total zinc will be evaluated through the end of June 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #112: WWTP Performance Evaluation	Total mercury and methylmercury above the MDO.	This item was first noted in Report #112. The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT on April 15, 22, 27, May 7, 13, 21 and 25 were above the MDOs. Increased incidence of total mercury and methylmercury concentrations above the MDOs in site contact waters occurred in late April 2025 through September 2025, coinciding with warmer and drier weather relative to winter months. In 2025, possible project related sources had been evaluated, and upstream contact water monitoring data indicate methylmercury was elevated in the Hydrovac sump. Excess water from this sump is directed to the East WWTP. This production of methylmercury is attributed to microbially mediated methylation of total mercury in the bottom sediments of water management sumps, and transfer from the sump sediments to the water column. Enhanced monitoring for methylmercury has been implemented in May 2026. This item remains open.
Report #113: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for receiving environment samples collected May 6 are included in Report #117. This item is closed.
Report #114: Pending Data	Analytical results not reported.	Previously pending dioxins and furans results for contact and treated water samples collected May 13 are included in Report #117. This item is closed.
Report #115: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for contact and treated water samples collected May 20 are included in Report #117. Marine sediment samples collected May 17 and 18 as well as are pending and will be included in future weekly reports when available. This item remains open.
Report #116: Pending Data	Analytical results not reported.	Dioxins, furans and acute toxicity results for contact and treated water samples collected May 25 as well as dioxins, furans and chronic toxicity results for receiving environment samples collected May 26 are pending and will be included in future weekly reports when available. This item remains open.
Report #116: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	Hexavalent chromium concentration was 0.00190 mg/L in the sample collected at WWTP-E-OUT on May 21 and was above the MDO (0.0015 mg/L). Hexavalent chromium concentration met MDO in the WWTP-E-OUT sample collected May 25, June 3 and June 8. The WWTP treatment performance for hexavalent chromium will be evaluated through the end of June 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #117: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for contact and treated water samples collected June 1 are included in Report #117. Analytical results for contact and treated water samples collected June 3 are included in Report #117, except for total mercury, methylmercury, and dioxins and furans which are pending. Field records and analytical results for receiving environment samples collected June 4 and 5 are pending. Pending results will be included in future weekly reports when available. This item remains open.

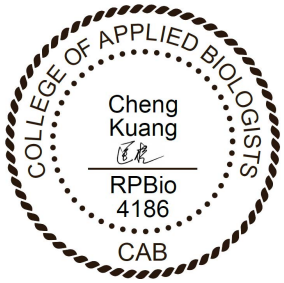
Notes:
Result QA/QC screening includes the evaluation of field and lab QC results, comparison of total and dissolved metal results and review for modified detection limits.
Pending data are outstanding results from monitoring samples reported in the current or previous weekly reports.
Authorized works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

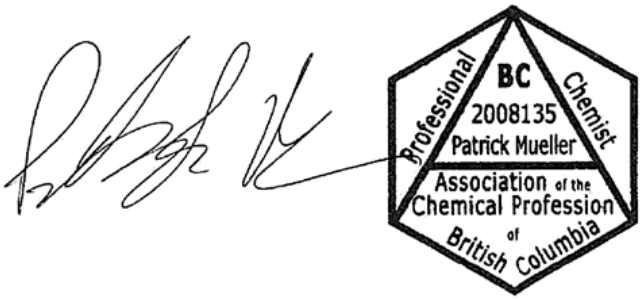
4. Closure

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

Regards,

LORAX ENVIRONMENTAL SERVICES LTD.





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

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

DATE SAVED:	Jun 19, 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 (June 13, 2026)

PROJECT #: A825-1

FIGURE: 1

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

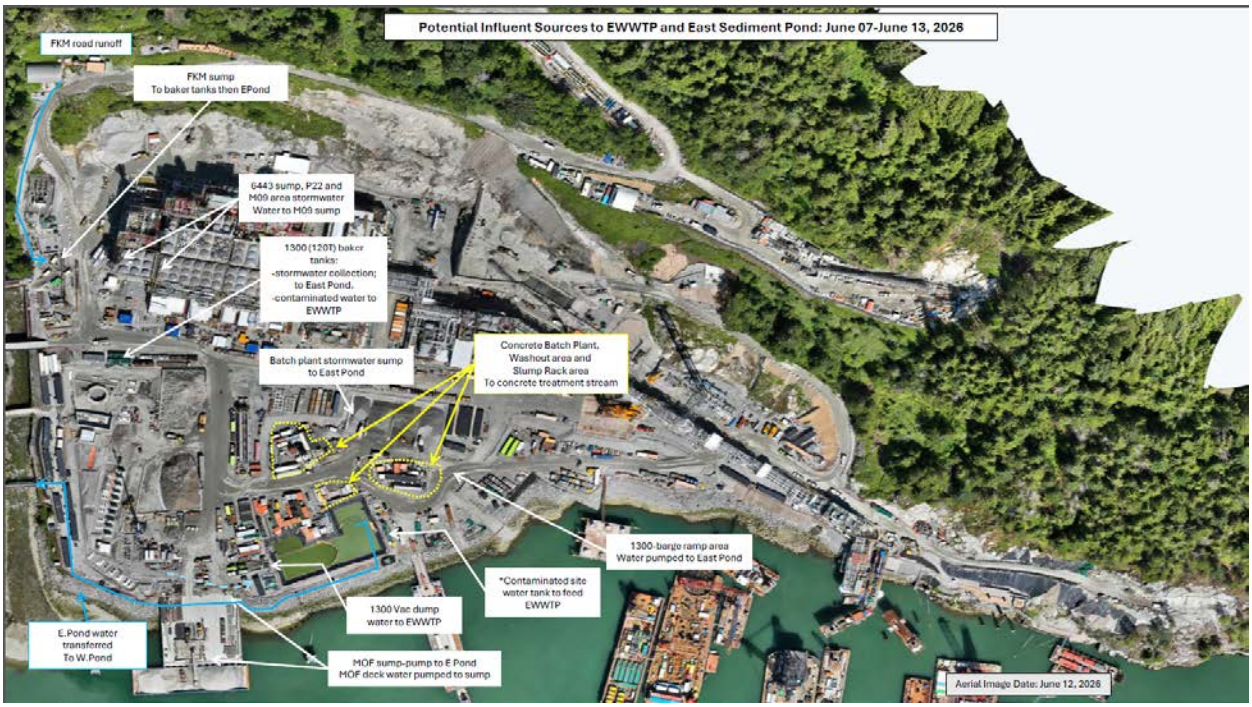


Figure 2: East Catchment contact water management facilities (June 7 – 13).

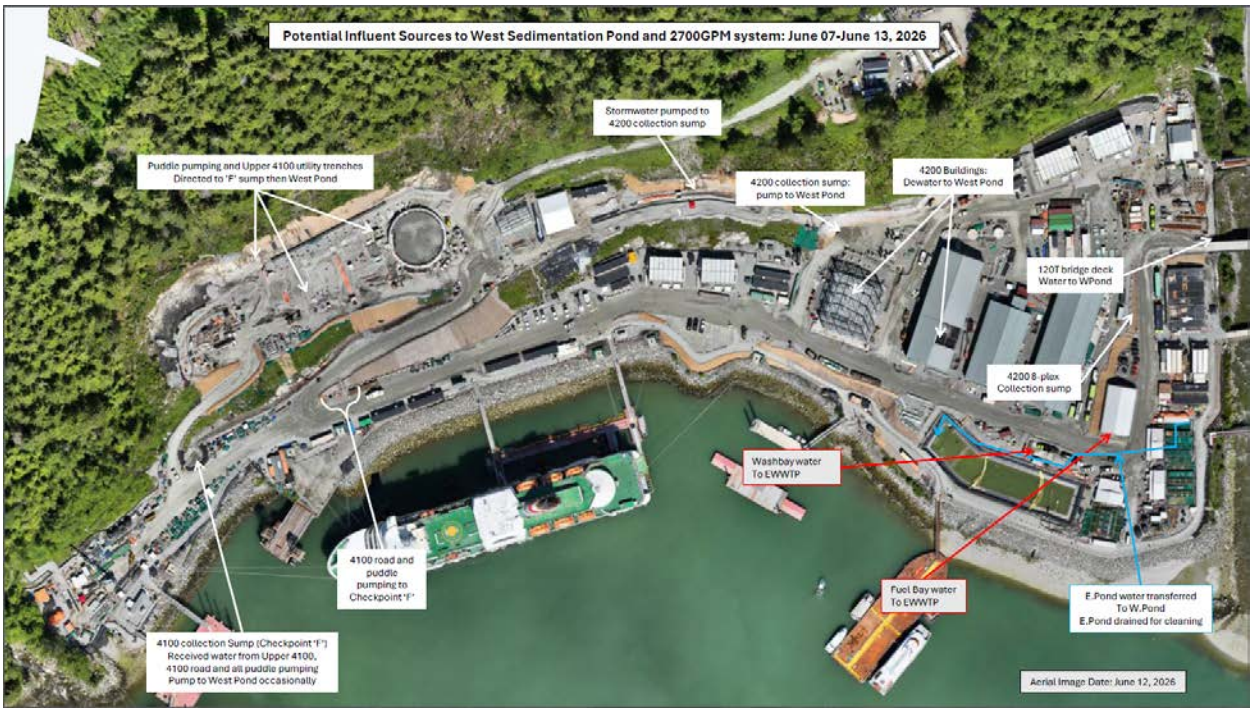


Figure 3: West Catchment contact water management facilities (June 7 – 13).

Figure 4: Aerial view of the East Sedimentation Pond (June 12, 2026). The East WWTP is located on the left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (June 12, 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	Station WWTP-E-IN	Station WWTP-E-OUT	Station WWTP-E-OUT	Station WWTP-E-OUT
					Influent	Influent	Effluent	Effluent	Effluent
					WWTP-E-IN	WWTP-E-IN	WWTP-E-OUT	WWTP-E-OUT-DUP	WWTP-E-OUT
					VA26B4302-002	VA26B4860-002	VA26B4302-003	VA26B4302-004	VA26B4860-003
		Long Term	Short Term		2026-06-03 09:52	2026-06-08 09:40	2026-06-03 15:24	2026-06-03 15:24	2026-06-08 15:33
General Parameters									
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.31	6.7	6.22	6.28	6.2
Specific Conductivity - Field	µS/cm	-	-	-	1118	1256	1479	1476	1190
Temperature - Field	°C	-	-	-	20.8	16.7	21.5	-	16.8
Salinity - Field	ppt	-	-	-	0.56	0.63	0.33	-	0.6
Turbidity - Field	NTU	-	-	-	26.46	19.63	0.76	2.48	5.04
TSS	mg/L	-	-	25 or 75 [5]	12.2	5.1	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.34	10.31	8.25	8.09	9.3
Total Hardness	mg/L	-	-	-	115	75.4	51.8	52.1	30.4
Dissolved Hardness	mg/L	-	-	-	105	78.2	46.2	54.2	28.4
Anions and Nutrients									
Sulphate	mg/L	-	-	-	297	344	424	427	319
Chloride	mg/L	-	-	-	11.1	18.9	17.2	17.3	21.7
Fluoride	mg/L	-	1.5	-	0.125	0.256	0.336	0.339	0.309
Ammonia (N-NH_3)	mg/L	5.9-14 [3]	40-92 [3]	-	0.0314	0.0889	0.0535	0.0546	0.157
Nitrite (N-NO_2)	mg/L	-	-	-	0.511	0.505	0.457	0.452	0.466
Nitrate (N-NO_3)	mg/L	3.7	339	-	***19.9***	***22.8***	***22.9***	***23***	***20.6***
Total Organic Carbon (TOC)	mg/L	-	-	-	6.01	4.62	4.76	4.64	4.29
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	5	4.16	4.44	4.41	3.41
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	-	1.34	0.989	0.105	0.101	0.099
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00125	0.00149	0.00139	0.00138	0.00143
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00176	0.00149	0.00139	0.00139	0.0013
Barium, total (T-Ba)	mg/L	-	-	-	0.023	0.0228	0.00556	0.00565	0.00288
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000024	0.000022	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.038	0.126	0.122	0.124	0.135
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000500	<0.0000600	<0.0000900	<0.0000900	<0.0000550
Chromium, total (T-Cr)	mg/L	-	-	-	0.00083	0.00074	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00048	0.00043	0.00017	0.00017	0.00015
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0041	0.00568	0.00411	0.00404	0.00183
Iron, total (T-Fe)	mg/L	-	-	-	0.974	0.698	0.042	0.042	0.024
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00139	0.000697	0.000595	0.00058	0.000181
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0688	0.0738	0.0143	0.0139	0.0047
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0869	0.156	0.142	0.144	0.152
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00092	0.00096	0.00106	0.00111	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000408	0.000333	0.000316	0.000332	0.000385
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010	<0.000010	<0.000010	0.000012
Thallium, total (T-Tl)	mg/L	-	-	-	0.000024	0.000022	0.00003	0.000031	0.000017
Uranium, total (T-U)	mg/L	-	-	-	0.00789	0.0215	0.0217	0.0218	0.0225
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00331	0.00305	0.00304	0.00306	0.00204
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0112	0.0132	0.0367	0.0359	0.0043
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000400	<0.0000500	<0.0000500	<0.0000425	<0.0000500
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00183	0.00189	0.00205	0.00205	0.00184
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.017	0.020	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000125	0.000085	0.000239	0.000234	0.000149
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0319	0.0486	0.00891	0.00914	0.00403
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	0.00054	<0.00050	<0.00050	0.00066
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.276	0.212	0.205	0.241	0.142
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00185	0.00176	0.00305	0.0031	0.0019
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0032	0.0051	0.0055	0.0057	0.0052
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	<0.000010	<0.000010	-
Acridine	mg/L	-	-	-	<0.000010	-	<0.000010	<0.000010	-
Anthracene	mg/L	-	-	-	<0.000010	-	<0.000010	<0.000010	-
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-	<0.000010	<0.000010	-
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-	<0.0000050	<0.0000050	-
Chrysene	mg/L	0.0001	-	-	<0.000010	-	<0.000010	<0.000010	-
Fluoranthene	mg/L	-	-	-	<0.000010	-	<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	-	-	-	<0.000020	-	<0.000020	<0.000020	-
Pyrene	mg/L	-	-	-	<0.000010	-	<0.000010	<0.000010	-
Quinoline	mg/L	-	-	-	<0.000050	-	<0.000050	<0.000050	-
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.59	6.0	-	<0.00050	-	<0.00050	<0.00050	-
Ethylbenzene	mg/L	0.07	1.0	-	<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	0.03	3.0	-	<0.00040	-	<0.00040	<0.00040	-
Total Xylenes	mg/L	0.07	1.0	-	<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:
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 (June 7 – 13).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
[5] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

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

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station SP-E-IN Influent SP-E-IN VA26B4302-001 2026-06-03 10:30	Station SP-E-IN Influent SP-E-IN VA26B4860-001 2026-06-08 09:55
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	6.48	7.1
Specific Conductivity - Field	µS/cm	-	-	-	1278	1226
Temperature - Field	°C	-	-	-	20.9	16.2
Salinity - Field	ppt	-	-	-	0.64	0.61
Turbidity - Field	NTU	-	-	-	6.83	7.17
TSS	mg/L	-	-	25 or 75 [5]	4.8	5.5
Dissolved Oxygen - Field	mg/L	≥8	-	-	8.14	9.54
Total Hardness	mg/L	-	-	-	80.3	52.3
Dissolved Hardness	mg/L	-	-	-	75.5	47.3
Anions and Nutrients						
Sulphate	mg/L	-	-	-	339	327
Chloride	mg/L	-	-	-	20.8	22
Fluoride	mg/L	-	1.5	-	0.342	0.323
Ammonia (N-NH_3)	mg/L	9.4-14 [3]	62-92 [3]	-	0.0539	0.162
Nitrite (N-NO_2)	mg/L	-	-	-	0.492	0.509
Nitrate (N-NO_3)	mg/L	3.7	339	-	***25.3***	***21.3***
Total Organic Carbon (TOC)	mg/L	-	-	-	5.49	3.84
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	4.6	3.55
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.417	0.348
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00142	0.00143
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00155	0.00139
Barium, total (T-Ba)	mg/L	-	-	-	0.0125	0.011
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000022	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.139	0.135
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000650	<0.0000500
Chromium, total (T-Cr)	mg/L	-	-	-	0.00088	0.00098
Cobalt, total (T-Co)	mg/L	-	-	-	0.0004	0.00026
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00246	0.00166
Iron, total (T-Fe)	mg/L	-	-	-	0.299	0.22
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000475	0.000212
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.105***	0.0439
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.175	0.183
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.0006	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000326	0.000489
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000017	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000025	0.00002
Uranium, total (T-U)	mg/L	-	-	-	0.0334	0.0258
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0036	0.00237
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.007	0.004
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	0.00063
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000650	<0.0000450
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00134	0.00121
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000095	0.000062
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0688	0.0303
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.253	0.186
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00277	0.00189
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0034	0.0026
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	<0.000010	-
Acridine	mg/L	-	-	-	<0.000010	-
Anthracene	mg/L	-	-	-	<0.000010	-
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-
Chrysene	mg/L	0.0001	-	-	<0.000010	-
Fluoranthene	mg/L	-	-	-	<0.000010	-
Fluorene	mg/L	0.012	-	-	<0.000010	-
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-
Naphthalene	mg/L	0.001	-	-	<0.000050	-
Phenanthrene	mg/L	-	-	-	<0.000020	-
Pyrene	mg/L	-	-	-	<0.000010	-
Quinoline	mg/L	-	-	-	<0.000050	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	<0.00050	-
Ethylbenzene	mg/L	0.07	1.0	-	<0.00050	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-
Styrene	mg/L	-	-	-	<0.00050	-
Toluene	mg/L	0.03	3.0	-	<0.00040	-
Total Xylenes	mg/L	0.07	1.0	-	<0.00050	-
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-

Notes:
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 (June 7 – 13).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
[5]The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-3:
East Catchment 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	VA26B1952-001	2026-05-13	0	1.74
WWTP-E-IN	Influent	WWTP-E-IN	VA26B1952-002	2026-05-13	0	1.90
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26B1952-003	2026-05-13	0	1.67

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-4:
East Catchment Field Measurements Collected During the Monitoring Period (June 7 – 13).

Parameter			**Temperature**	**Dissolved Oxygen (DO)**	**Salinity**	**Turbidity**	**Estimated TSS [3]**	**pH**	**Specific Conductivity**	**Visibility of Sheen**
Unit			**°C**	**mg/L**	**ppt**	**NTU**	**mg/L**	**s.u.**	**µS/cm**	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 [6]	5.5 - 9.0	-	-
Lowest Applicable Guideline [1]			-	≥8	-	-	- [2]	- [2]	-	-
Station ID	**Water Type**	**Date**								
Influent [4]										
SP-E-IN	Influent	2026-06-07 16:05	16.6	9.35	0.63	35.70	29.6	7.3	1253	No
SP-E-IN	Influent	2026-06-08 09:55	16.2	9.54	0.61	7.17	8.3	7.1	1226	Yes
SP-E-IN	Influent	2026-06-09 12:34	15.5	9.46	0.58	69.63	54.9	6.9	1167	No
SP-E-IN	Influent	2026-06-10 15:05	16.8	9.69	0.63	49.50	39.9	7.2	1248	No
SP-E-IN	Influent	2026-06-11 12:34	17.9	9.68	0.54	33.69	28.1	7.1	1076	No
SP-E-IN	Influent	2026-06-12 12:49	18.9	10.09	0.57	8.50	9.3	6.9	1147	No
SP-E-IN	Influent	2026-06-13 10:12	19.6	9.82	0.59	4.04	6.0	7.4	1191	No
WWTP-E-IN	Influent	2026-06-07 15:43	18.1	10.90	0.63	18.37	16.7	7.2	1262	No
WWTP-E-IN	Influent	2026-06-08 09:40	16.7	10.31	0.63	19.63	17.6	6.7	1256	No
WWTP-E-IN	Influent	2026-06-09 12:23	15.2	8.80	0.49	2172.64	1623.4	8.1	992	No
WWTP-E-IN	Influent	2026-06-10 15:08	15.7	9.37	0.45	1778.69	1329.5	7.0	916	No
WWTP-E-IN	Influent	2026-06-11 12:23	16.7	9.45	0.50	83.52	65.3	6.8	1012	No
WWTP-E-IN	Influent	2026-06-12 12:39	18.7	10.03	0.55	19.00	17.2	7.8	1111	No
WWTP-E-IN	Influent	2026-06-13 10:15	20.5	10.13	0.57	7.76	8.8	7.3	1142	No
Effluent [5]										
WWTP-E-OUT	Effluent	2026-06-07 15:38	15.9	8.38	0.68	2.34	4.7	6.8	1352	No
WWTP-E-OUT	Effluent	2026-06-08 15:33	16.8	9.30	0.60	5.04	6.8	6.2	1190	No
WWTP-E-OUT	Effluent	2026-06-09 12:28	15.8	9.77	0.63	4.51	6.4	7.1	1249	No
WWTP-E-OUT	Effluent	2026-06-10 15:11	15.7	9.26	0.69	1.32	4.0	6.5	1378	No
WWTP-E-OUT	Effluent	2026-06-11 12:21	16.0	10.46	0.49	2.68	5.0	7.1	985	No
WWTP-E-OUT	Effluent	2026-06-12 12:46	18.4	10.16	0.59	0.45	3.3	6.8	1187	No
WWTP-E-OUT	Effluent	2026-06-13 10:35	19.7	9.19	0.61	1.54	4.1	6.6	1226	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (June 7 – 13). Results above screening values are highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (June 7 – 13), therefore daily field measurements for SP-E-OUT were not collected on those days.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-5:
East Catchment Daily Discharge Volumes for the Monitoring Period (June 7 – 13).

	East Sedimentation Pond Effluent	**Transfer to West Sedimentation Pond**	**East WWTP Treated Effluent (Station WWTP-E-OUT)[2]**	**Discharge to Howe Sound (Station SP-E-OUT)**
Units	**m^3**	**m^3**	**m^3**	**m^3**
PE-111578 Discharge Limit	-	-	1,100	- [1]
Date				
2026-06-07	0	0	188	0
2026-06-08	0	0	326	0
2026-06-09	0	0	241	0
2026-06-10	0	0	496	0
2026-06-11	0	0	627	0
2026-06-12	0	0	641	0
2026-06-13	- [3]	0	651	- [3]

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.
[3] The East Sedimentation Pond passively discharged through SP-E-OUT during the afternoon of June 13. The discharge volume was not measured and is considered to be small, based on the small size of the effluent plume visible at SP-E-OUT on June 13.

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
					Influent	Effluent
					2700GPM-IN	W2700T1-OUT
					VA26B4980-002	VA26B4980-003
		Long Term	Short Term		2026-06-10 09:50	2026-06-10 10:05
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.2	8.1
Specific Conductivity - Field	µS/cm	-	-	-	494	492
Temperature - Field	°C	-	-	-	15.7	15.1
Salinity - Field	ppt	-	-	-	0.24	0.24
Turbidity - Field	NTU	-	-	-	155.5	1.63
TSS	mg/L	-	-	25 or 75 [5]	60.8	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	10.14	10.01
Total Hardness	mg/L	-	-	-	91	64.8
Dissolved Hardness	mg/L	-	-	-	68.1	66.6
Anions and Nutrients						
Sulphate	mg/L	-	-	-	123	123
Chloride	mg/L	-	-	-	6.07	6.13
Fluoride	mg/L	-	1.5	-	0.076	0.081
Ammonia (N-NH_3)	mg/L	0.87-1.4 [3]	5.8-9.4 [3]	-	0.0807	0.0662
Nitrite (N-NO_2)	mg/L	-	-	-	0.12	0.117
Nitrate (N-NO_3)	mg/L	3.7	339	-	***5.03***	***5.06***
Total Organic Carbon (TOC)	mg/L	-	-	-	4.79	2.98
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.42	3.15
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	8.37	0.127
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00096	0.00095
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00193	0.00116
Barium, total (T-Ba)	mg/L	-	-	-	0.0655	0.00353
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000126	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.019	0.016
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000712	<0.0000200
Chromium, total (T-Cr)	mg/L	-	-	-	0.00223	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00248	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0101	0.00126
Iron, total (T-Fe)	mg/L	-	-	-	7.2	0.014
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00377	0.000056
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.281***	0.00154
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0327	0.0333
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00133	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000153	0.000104
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000014	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000038	0.000019
Uranium, total (T-U)	mg/L	-	-	-	0.00397	0.00328
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0123	0.0011
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0429	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000150	<0.0000200
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00172	0.00139
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.012	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	0.00006
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00851	0.00101
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.114	0.108
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00112	0.00108
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0013	0.0015
Polycyclic Aromatic Hydrocarbons (PAHs)						
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	-	-	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	-	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020	<0.000020
Pyrene	mg/L	-	-	-	0.000018	<0.000010
Quinoline	mg/L	-	-	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.07	1.0	-	<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	0.03	3.0	-	<0.00040	<0.00040
Total Xylenes	mg/L	0.07	1.0	-	<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:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment did not discharge during the monitoring period (June 7 – 13).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [Sb(III)] is 0.27 mg/L and is applied to total antimony results.
[5] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-2:
West 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]	0.00071-0.0014 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26B2509-001	2026-05-20	***0.000130***	***0.00147***
SP-W-IN	Influent	SP-W-IN	VA26B3957-001	2026-06-01	***0.000609***	***0.00633***
2700GPM-IN	Influent	W2700-IN	VA26B2509-002	2026-05-20	***0.000133***	***0.00152***
2700GPM-IN	Influent	W2700-IN	VA26B3957-002	2026-06-01	***0.000581***	***0.00412***
Effluent[5]						
W2700T1-OUT	Effluent	W2700T1-OUT	VA26B2509-003	2026-05-20	***0.000116***	***0.00121***
W2700T1-OUT	Effluent	W2700T1-OUT	VA26B3957-003	2026-06-01	***0.000361***	***0.00498***

Notes:
West catchment influents were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] From BC Ambient Water Quality Guidelines for Mercury Overview Report. The methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) is indicated as a WQG for the protection of wildlife and is set at a concentration that protects fish from mercury bioaccumulation to a level that may harm wildlife that consume fish.
[3] CCME guideline for total mercury = 0.016 µg/L.
[4] When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 µg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result reported as not detected.
[5] Clarified sedimentation pond effluent from the 2700GPM TSS Settling System was recirculated to the West Sedimentation Pond and did not discharge to Howe Sound from SP-W-OUT on May 20 and June 1.

Table C-3:
West Catchment Field Measurements Collected During the Monitoring Period (June 7 – 13).

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	2026-06-07 14:48	18.3	9.46	0.25	104.74	81.1	8.5	518	No
SP-W-IN	Influent	2026-06-08 10:27	16.0	9.25	0.21	96.10	74.7	8.1	439	No
SP-W-IN	Influent	2026-06-09 12:51	15.3	9.49	0.19	117.49	90.6	8.1	393	No
SP-W-IN	Influent	2026-06-10 09:32	15.1	10.05	0.24	50.13	40.4	7.0	485	No
SP-W-IN	Influent	2026-06-11 09:19	16.5	9.79	0.24	11.78	11.8	6.6	498	No
SP-W-IN	Influent	2026-06-12 10:08	19.0	9.43	0.25	4.95	6.7	8.1	508	No
SP-W-IN	Influent	2026-06-13 11:36	21.2	9.02	0.27	11.49	11.6	8.0	552	No
2700GPM-IN	Influent	2026-06-10 09:50	15.7	10.14	0.24	155.5	119	8.2	494	No
2700GPM-IN	Influent	2026-06-11 09:22	16.6	9.86	0.24	11.34	11.5	7.5	503	No
2700GPM-IN	Influent	2026-06-12 10:00	18.7	9.58	0.25	6.38	7.8	8.0	506	No
2700GPM-IN	Influent	2026-06-13 11:31	21.1	9.19	0.27	8.73	9.5	7.9	549	No
Effluent [5]										
-	-	-	-	-	-	-	-	-	-	-

Notes:
West catchment influents for June 7 – 13 were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
[5] As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent was not discharged to Howe Sound at the authorized discharge location (SP-W-OUT) during the monitoring period (June 7 – 13); therefore, daily field parameters were not collected from station SP-W-OUT on June 7 – 13.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-4:
West Catchment Daily Discharge Volumes for the Monitoring Period (June 7 – 13).

	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					
2026-06-07	0	0	0	0	0
2026-06-08	0	0	0	0	0
2026-06-09	0	194	0	0	0
2026-06-10	0	1,527	36	0	0
2026-06-11	0	1,714	76	0	0
2026-06-12	0	1,490	186	0	0
2026-06-13	0	1,109	53	0	0

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

Table D-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
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	VA26B1069-001	2026-05-06	<0.00002	<0.005
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26B1069-002	2026-05-06	0.000021	<0.005
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26B1069-003	2026-05-06	0.000029	<0.005
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26B1069-004	2026-05-06	<0.00002	<0.005
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26B1069-005	2026-05-06	<0.00002	<0.005
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26B1069-006	2026-05-06	0.000023	<0.005
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26B1069-007	2026-05-06	<0.00004	<0.005
WQR2	2 m Below Surface	WQR2-2m	VA26B1069-008	2026-05-06	<0.0001	<0.005
WQR2	2 m Above Seafloor	WQR2-SF	VA26B1069-009	2026-05-06	<0.00002	<0.005

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.