TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 17 Apr 2026**
From:	**Holly Pelletier and Cheng Kuang (Lorax)**	**Project #: A825-1**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #109 for April 5 – 11**	

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 #109) was prepared by Lorax and summarizes WDA monitoring conducted for the period of April 5 – 11. 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 #109 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

> "The Permittee shall summarize the results of the discharge and compliance monitoring program in a report that shall be submitted to the BCER weekly over the term of this permit. Reports must include suitable tabulated data. The table must include any applicable regulatory limits/guidelines e.g. permit limits, BC Water Quality Guidelines etc. Any exceedances of respective regulatory limits/guidelines must be clearly highlighted. Any missed sampling events/missing data must be identified with an explanation provided. Reporting frequency may be reduced upon a history of compliance and by written confirmation from the BCER. These reports shall be submitted to Waste.Management@bc-er.ca. A copy of the reports shall be provided to each First Nation consulted with regarding this subject permit, and also made publicly available on the Woodfibre LNG Environmental Reporting webpage."

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

1. Current Conditions

1.1 Water Management Infrastructure

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

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

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

The East and West WWTPs were commissioned to treat contaminated contact water in April and August 2024, respectively. The installed treatment capacities are 1,080 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

Dry and relatively warm weather conditions were observed during the April 5 – 11 monitoring period, with no precipitation. 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
2026-04-05	0	19.7	6.3	Sunny
2026-04-06	0	16.8	6.4	Sunny
2026-04-07	0	14.1	5.1	Sunny
2026-04-08	0	15.6	3.6	Sunny
2026-04-09	0	17.2	5.0	Sunny
2026-04-10	0	19.6	6.2	Sunny
2026-04-11	0	16.1	9.3	Partly cloudy

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

From April 5 – 11, the East Sedimentation Pond received water from the M09 Sump, 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 April 5 – 11 (Appendix B, Table B-5).

Routine operation of the East WWTP continued during the monitoring period (April 5 – 11). Concrete contact water was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (April 5 – 11). Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-5).

From April 5 – 11, the West Sedimentation Pond received water from the Area 4100 and Area 4200 Sumps as well as recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system on April 7 and 8 and clarified effluent was either recirculated back to the pond or intermittently discharged to Howe Sound. A total of 1,330 m^3 of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT on April 7 and 8. 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 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 OUT-02, SW-01, SW-02, SW-03, SW-04, SW-07, IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, WQR2, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T3-OUT, and W2700T4-OUT during the monitoring period (April 5 – 11). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (April 5 – 11) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.,* bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Daily field parameters and a weekly analytical sample were not collected at the east catchment effluent compliance station (SP-E-OUT) as there was no discharge to Howe Sound from the East Sedimentation Pond during the monitoring period (April 5 – 11). Daily field measurements for East WWTP influent and effluent stations (WWTP-E-IN and WWTP-E-OUT, respectively) were not collected on April 8 and 10 as the East WWTP was not operational at the time of monitoring. Daily field parameters were not collected at the west catchment effluent compliance station (SP-W-OUT) on April 8 as there was no discharge at the time of monitoring nor on April 5, 6 and April 9 – 11 as there was no discharge to Howe Sound from the West Sedimentation Pond on those days. Daily field parameters and a weekly analytical sample were not collected at the influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) as it was not operational during the monitoring period (April 5 – 11).

Table 2:
Summary of PE-111578 Monitoring Samples Collected April 5 – 11.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
April 5, 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
	OUT-02	Non-contact water diversion ditch outlet	Field, Physical & General Parameters, Total and Dissolved Metals, and Methylmercury.	M, M_5
April 6, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
April 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, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a SP-W-OUT sampling port	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	P
	W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		
April 8, 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
	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, M_5
	SW-03	Mill Creek Estuary		
	SW-07	Upstream Mill Creek (at the diversion inlet)		
April 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
	SW-01	Lower Reach of Woodfibre Creek (near the mouth)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
	IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	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		

Table 2 (continued):
Summary of PE-111578 Monitoring Samples Collected April 5 – 11.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
April 10, 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
	IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
	IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
	IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
	IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
	IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
	WQR1-0.5	Reference site 1; 0.5 m below surface		
	WQR1-2m	Reference site 1; 2 m below surface		
	WQR1-SF	Reference site 1; 2 m above the seafloor		
April 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

Notes:
Monitoring frequency requirements under PE-111578 are indicated as follows:
D – daily monitoring of field parameters at WWTP and sedimentation pond influent and effluent stations.
M – monthly monitoring for all parameters at WWTP, sedimentation pond and receiving environment stations. Monthly monitoring for General parameters, except ammonia, nitrate and nitrite (*i.e.*, nitrogen species) are monitored weekly during blasting season.
M_2 – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
M_5 – spring high-frequency (5-in-30) sampling for receiving environment stations.
W – weekly monitoring for metals, chromium speciation and methylmercury at WWTP and sedimentation pond influent and effluent stations, effective June 25, 2025.
P – periodic monitoring for targeted parameters that is supplementary to PE-111578 requirements.

3. Water Quality Results

3.1 Summary of Reported Results

Analytical results and associated field measurements included in this weekly report (Report #109) are listed below in Table 3, with additional field measurements presented in Table B-4 (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:

- IDZ-W1, IDZ-W2 and WQR2 collected March 16 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected March 22 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected March 23 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected March 27 (total mercury, methylmercury, dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected March 28 (total mercury, methylmercury, dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected April 2 (field and all analytical parameters);
- IDZ-W1, IDZ-W2 and WQR2 collected April 3 (field and all analytical parameters);
- OUT-02 collected April 5 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected April 6 (dioxins and furans);
- SP-W-IN, SP-W-OUT and 2700GPM-IN collected April 7 (dioxins and furans);
- SW-02, SW-03 and SW-07 collected April 8 (field and all analytical parameters);
- SW-01 and SW-04 collected April 9 (field and all analytical parameters);
- IDZ-W1, IDZ-W2 and WQR2 collected April 9 (field and all analytical parameters);
- IDZ-E1, IDZ-E2 and WQR1 collected April 10 (field and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #109.

Sample	Description	Sampling Date	Parameters Reported
WWTP-E-OUT	East WWTP at the effluent meter box	February 9, 2026	Acute Toxicity.
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		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface		Chronic Toxicity.
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR2-0.5	Reference site 2; 0.5 m below surface		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	March 4, 2026	Total Mercury and Methylmercury.
IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR1-2m	Reference site 1; 2 m below surface		
WQR1-SF	Reference site 1; 2 m above the seafloor		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	March 23, 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		
OUT-02	Non-contact water diversion ditch outlet	March 24, 2026	Total Mercury and Methylmercury.
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	March 27, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR1-2m	Reference site 1; 2 m below surface		
WQR1-SF	Reference site 1; 2 m above the seafloor		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	March 28, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
WQR2-0.5	Reference site 2; 0.5 m below surface		
WQR2-2m	Reference site 2; 2 m below surface		
WQR2-SF	Reference site 2; 2 m above the seafloor		
OUT-02	Non-contact water diversion ditch outlet	March 30, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, and Methylmercury.
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	April 6, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, and Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		

Table 3 (continued):
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #109.

Sample	Description	Sampling Date	Parameters Reported
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	April 7, 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, at the SP-W-OUT outfall structure		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 SP-W-OUT sampling port		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs, and Methylmercury.
W2700T3-OUT	2700GPM TSS settling system at the outlet of Train 3		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
W2700T4-OUT	2700GPM TSS settling system at the outlet of Train 4		

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 April 5 – 11, as well as analytical results for samples collected April 6 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected April 5 – 11 and the analytical samples collected April 2 met MDOs except for dissolved oxygen on April 9 (Appendix B, Table B-1, Table B-3 and Table B-4).

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from April 5 – 11 (Section 1.2; Table B-5 of Appendix B). Therefore, water quality samples and field measurements were not collected at the SP-E-OUT discharge location.

Acute toxicity test results for the February 9 WWTP-E-OUT sample discussed in Report #101 are summarized herein. There was no discharge from the East Sedimentation Pond to Howe Sound via the effluent compliance station (SP-E-OUT) in Q1 2026. East WWTP effluent directed to the pond on February 9 was tested for acute toxicity as a proxy for effluent quality at SP-E-OUT to meet PE-111578 monitoring requirements. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the WWTP-E-OUT sample, indicating the East WWTP effluent passed the acute toxicity test and was not acutely toxic to these organisms.

3.4 West Catchment

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

As discussed in Section 1.2, a total of 1,330 m^3 of clarified sedimentation pond effluent from the 2700GPM TSS Settling System was intermittently discharged to Howe Sound from SP-W-OUT on April 7 and 8.

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected April 5 – 11, as well as analytical samples collected April 7 (stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T3-OUT and W2700T4-OUT).

Field measurements collected April 5 – 11 and the analytical samples collected at SP-W-OUT on April 7 met PE-111578 discharge limits and WQGs (Appendix C, Table C-2, Table C-3 and Table C-4).

Acute toxicity test results for the February 9 SP-W-OUT sample discussed in Report #101 are summarized herein. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the SP-W-OUT sample, indicating the effluent discharged from the West Sedimentation Pond on February 9 passed the acute toxicity test and was not acutely toxic to these organisms.

3.5 Non-Contact Water Diversion Ditch Outlets

Analytical results were available at the time of reporting for the non-contact water diversion ditch outlet sample collected at station OUT-02 on March 30 (as discussed in Report #108). The analytical results, field parameters, and WQGs are summarized in Appendix D.

Parameter concentrations met WQGs in the sample collected at OUT-02 on March 30 (Appendix D, Table D-1).

Total mercury and methylmercury analytical results were available at the time of reporting for the non-contact water diversion ditch outlet samples collected at station OUT-02 on March 24 and March 30 (as discussed in Reports #107 and #108, respectively). The methylmercury concentrations were 0.000020 and 0.000022 µg/L in the samples collected March 24 and 30, respectively, and met the WQG. The corresponding total mercury results met the WQG. Results are tabulated in Appendix D, Table D-2.

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 and field measurements were available at the time of reporting for marine water samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on March 27 (stations IDZ-E1, IDZ-E2 and WQR1) and on March 28 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Report #107. The analytical results, field parameters, and WQGs are summarized in Appendix E.

Parameter concentrations met WQGs except dissolved oxygen and total boron in some samples (Appendix E; Table E-1 through Table E-4). Dissolved oxygen ranged from 6.08 to 6.87 mg/L and was below the lower limit of the WQG (8 mg/L) in all samples collected at 2 m above the seafloor on March 27 and 28. Total boron was above the WQG (1.2 mg/L) and ranged from 1.58 to 3.21 mg/L in all marine water samples collected at 2 m below the surface and at 2 m above the seafloor on March 27 and 28.

Low concentrations of dissolved oxygen and elevated concentrations of total boron are indicative of influence from the deeper saline waters in the northern basin of Howe Sound and are a natural condition of marine water at the WDA monitoring stations. The dissolved oxygen and total boron concentrations observed at the IDZ monitoring stations are within concentration ranges that have been observed in the pre-construction baseline monitoring program (2.44 to 9.42 mg/L for dissolved oxygen and 0.0893 to 8.38 mg/L for total boron) or within ranges observed at marine reference stations (2.44 to 12.11 mg/L for dissolved oxygen and 0.114 to 8.38 mg/L for total boron).

Methylmercury analytical results were available at the time of reporting for all marine water samples collected March 4 (stations IDZ-E1, IDZ-E2 and WQR1) and March 23 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Reports #104 and #107, respectively. For all samples, methylmercury concentrations ranged from <0.000020 to 0.000045 µg/L and met the

WQG. The corresponding total mercury results met WQGs. Results are tabulated in Appendix E, Table E-4.

Chronic toxicity test results for marine receiving environment samples collected February 9, 2026 (as discussed in Report #101) are summarized herein. Marine water samples were tested for chronic toxicity to inland silverside (fish) and echinoderm (invertebrate). All chronic toxicity tests were conducted using 100% (undiluted) marine water collected from 0.5 m below the surface at stations IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, and marine reference stations WQR1 and WQR2 in the receiving environment of Howe Sound. Salinity adjustment was made prior to testing as per standard test protocol.

The February 9 chronic toxicity test results showed no statistically significant differences between the marine samples and laboratory controls for any of the endpoints tested for inland silverside. For the echinoderm test, a statistically significant difference in fertilization rate was observed in samples collected from stations IDZ-E1, IDZ-W1, IDZ-W2, and from marine reference stations WQR1 and WQR2 relative to the laboratory controls.

Analytical results of water samples collected from the marine receiving environment in tandem with the February 9 toxicity samples show that water quality parameter concentrations met WQGs except for total copper at IDZ-E2 and total boron at WQR1 (Appendix F; Report #102). There is no clear link between water quality and chronic effect on the echinoderm test species that was observed in the IDZ and reference locations. Considering that the February 9 reference station results showed inhibition of echinoderm fertilization rate similar to the IDZ station results, and that some reference station samples collected in 2025 also showed similar effects, it is inferred that there is a natural condition in the Howe Sound marine water collected at 0.5 m depth that periodically induces a chronic effect (*i.e.,* inhibition of fertilization rate) to echinoderm that is not attributable to project influence.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 4). The evaluation includes a review of field and lab QC, completeness of the weekly report (*e.g.,* pending data), completeness of the monitoring program, confirmation of recordkeeping, evaluation of compliance and review of water management activities. Items flagged for follow-up in Section 3 are also tracked in Table 4. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 4:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (April 5 – 11, Report #109)		
Authorized Works and Monitoring Program Evaluation	The authorized works and monitoring stations have not been established as described in PE-111578.	The PE-111578 authorized works for water management have been constructed, except for some of the conveyance ditches, which require completion of site grading prior to installation. Sumps, pumps and hoses are used for temporary conveyance until the ditches are completed. The lower reach of East Creek was temporarily diverted through Outfall 11 from September 17, 2024 to November 18, 2025. As November 19, 2025, East Creek flows have been returned to the lower Channel that discharges to Howe Sound through the Outfall 12 culverts (OUT-12). The culvert at OUT-01 is being replaced and diversion water flows to OUT-01 have been redirected to OUT-02. Outfall 11 (OUT-11) has been constructed but is not in use. All monitoring stations have been established except at SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP- W- IN- 2 where substitute stations are established in lieu of those listed in PE-111578 (refer to Section 2). This item remains open.
Report #109: Pending Data	Analytical results not reported.	Field records and analytical results for the non-contact water diversion ditch sample collected April 5 and for receiving environment samples collected April 8, 9 and 10 as well as dioxins and furans results for contact and treated water samples collected April 6 and 7 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #98: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	This item was first noted in Report #98. Hexavalent chromium concentrations ranged from 0.00081 to 0.00321 mg/L in the WWTP-E-OUT samples collected from January 20 through February 26, which were frequently above the MDO (0.0015 mg/L). Hexavalent chromium concentrations were 0.00096, 0.00076, 0.00087, <0.00050, 0.00062 and <0.00050 mg/L in the WWTP-E-OUT samples collected February 27, March 5, 10, 18, 24, and April 6 respectively, and met the MDO; however, hexavalent chromium was above the MDO on March 31 (0.00235 mg/L). The WWTP treatment performance for hexavalent chromium will continue to be evaluated in April 2026. This item remains open.
Report #101: Pending Data	Analytical results not reported.	Previously pending chronic toxicity results for receiving environment samples and acute toxicity results for treated water samples collected February 9 are included in Report #109. This item is closed.
Report #104: Pending Data	Analytical results not reported.	Previously pending total mercury and methylmercury results for receiving environment samples collected March 4 are included in Report #109. This item is closed.
Report #106: Potential Project Influence	Total aluminum, fluoride and hexavalent chromium at East Creek above WQGs and the baseline concentration ranges.	At the East Creek station (SW-04) on March 1, total aluminum, fluoride, and hexavalent chromium concentrations (1.83, 0.261, and 0.00184 mg/L) were 3.2, 2.2, and 1.8 times greater than their WQGs, and 6.9, 2.6, and 5.9 times greater than their pre-construction baseline maxima (0.264, <0.100, and 0.00031 mg/L), respectively. There were no LNG facility construction activities in the vicinity of the SW-04 monitoring station on March 1. Additional investigation suggests that the source of total aluminum, fluoride and hexavalent chromium in East Creek on March 1 likely originated from upstream of the LNG facility construction area, and not from the Woodfibre LNG facility construction project. This item is closed.
Report #106: Pending Data	Analytical results not reported.	Dioxins and furans results for receiving environment samples collected March 16 are pending and will be included in future weekly reports when available. This item remains open.
Report #107: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for receiving environment samples collected March 27 and 28, total mercury and methylmercury results for receiving environment and non-contact water diversion ditch samples collected March 23 and 24, respectively, are included in Report #109. Total mercury and methylmercury results for receiving environment samples collected March 27 and 28 as well as dioxins and furans results for receiving environment samples collected March 22, 23, 27 and 28 are pending and will be included in future weekly reports when available. This item remains open.
Report #108: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for the non-contact water diversion ditch sample collected March 30 are included in Report #109. Field records and analytical results for receiving environment samples collected April 2 and 3 are pending and will be included in future weekly reports when available. This item remains open.

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

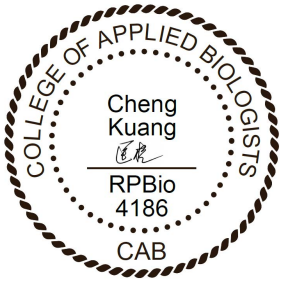
4. Closure

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

Regards,

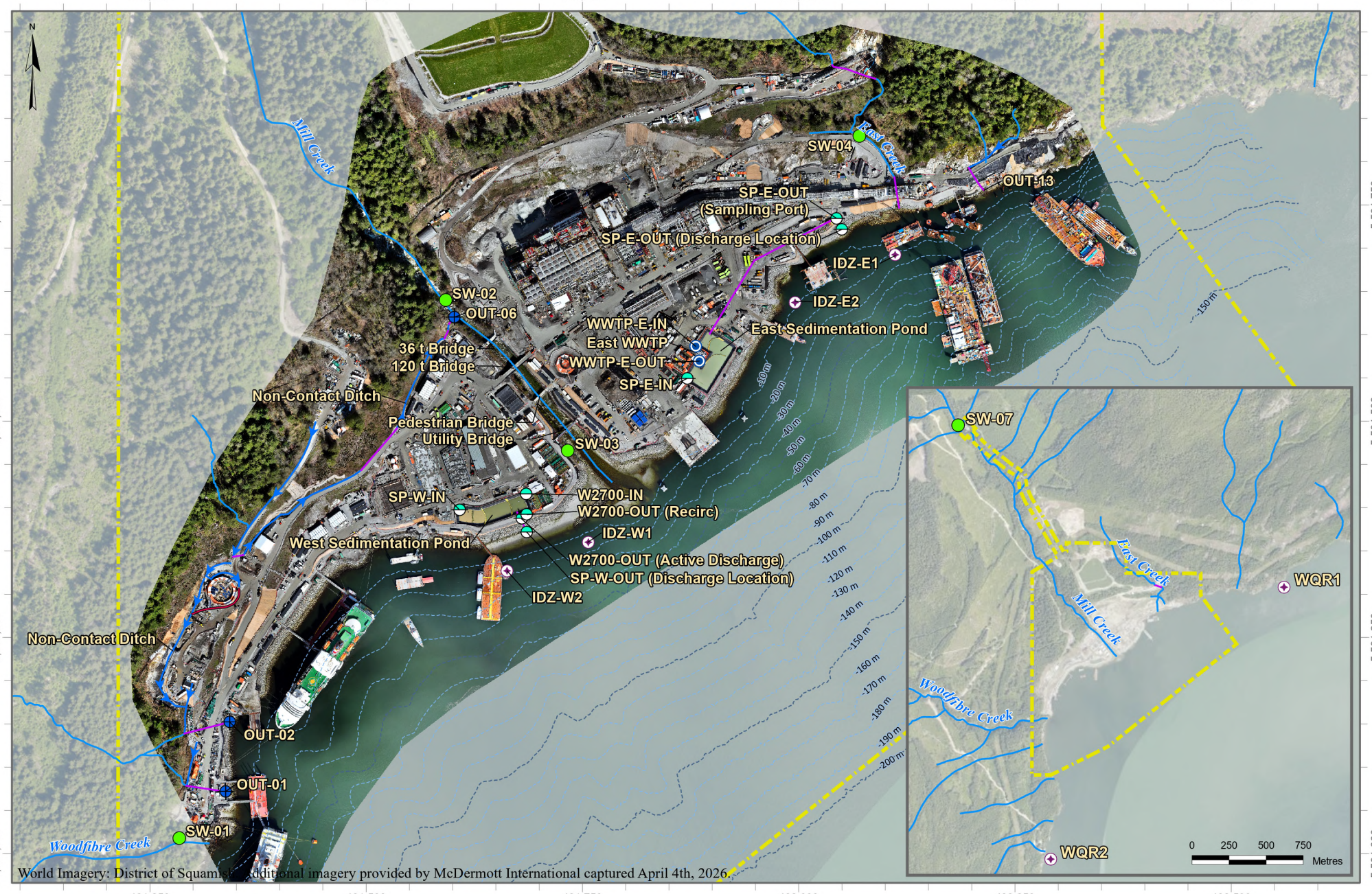
LORAX ENVIRONMENTAL SERVICES LTD.

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



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

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:	Apr 17, 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 (April 11, 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 (April 5 – 11).

Figure 3: West Catchment contact water management facilities (April 5 – 11).

Figure 4: Aerial view of the East Sedimentation Pond (April 10, 2026). The East WWTP is located on the left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (April 10, 2026).

Appendix B:
East Catchment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station WWTP-E-IN Influent WWTP-E-IN VA26A8064-002 2026-04-06 8:16	Station WWTP-E-OUT Effluent WWTP-E-OUT VA26A8064-003 2026-04-06 14:54
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.2	6.8
Specific Conductivity - Field	µS/cm	-	-	-	1618	1902
Temperature - Field	°C	-	-	-	12.4	13.4
Salinity - Field	ppt	-	-	-	0.82	0.97
Turbidity - Field	NTU	-	-	-	32.63	2.22
TSS	mg/L	-	-	25 or 75 [5]	15.6	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.32	11.33
Total Hardness	mg/L	-	-	-	55.1	16.8
Dissolved Hardness	mg/L	-	-	-	54.4	15.3
Anions and Nutrients						
Sulphate	mg/L	-	-	-	524	576
Chloride	mg/L	-	-	-	<5.00	<5.00
Fluoride	mg/L	-	1.5	-	<0.200	<0.200
Ammonia (N-NH_3)	mg/L	12-20 [3]	83-131 [3]	-	<0.0050	0.013
Nitrite (N-NO_2)	mg/L	-	-	-	<0.0100	<0.0100
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.132	0.153
Total Organic Carbon (TOC)	mg/L	-	-	-	3.46	2.64
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.71	2.28
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	1.62	0.241
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.0009	0.00092
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00161	0.00098
Barium, total (T-Ba)	mg/L	-	-	-	0.0224	0.00303
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000032	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.037	0.031
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000400	<0.0000250
Chromium, total (T-Cr)	mg/L	-	-	-	0.0022	0.00068
Cobalt, total (T-Co)	mg/L	-	-	-	0.00046	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00391	0.00157
Iron, total (T-Fe)	mg/L	-	-	-	1.2	0.075
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000755	0.00008
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0686	0.00988
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0713	0.0732
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00069	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000306	0.000349
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000019	0.000021
Uranium, total (T-U)	mg/L	-	-	-	0.0124	0.00926
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0041	0.00203
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0176	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00078	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000250	<0.0000150
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.002	0.00135
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0308	0.00641
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.185	0.0865
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00182	0.00196
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0078	0.0019
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	-	-	-	<0.000010	<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	-	-	-	<0.000010	<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:
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 (April 5 – 11).
[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 VA26A8064-001 2026-04-06 7:55
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.2
Specific Conductivity - Field	µS/cm	-	-	-	1527
Temperature - Field	°C	-	-	-	11.8
Salinity - Field	ppt	-	-	-	0.77
Turbidity - Field	NTU	-	-	-	60.4
TSS	mg/L	-	-	25 or 75 [5]	63.6
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.91
Total Hardness	mg/L	-	-	-	65.8
Dissolved Hardness	mg/L	-	-	-	52.9
Anions and Nutrients					
Sulphate	mg/L	-	-	-	464
Chloride	mg/L	-	-	-	4.75
Fluoride	mg/L	-	1.5	-	0.132
Ammonia (N-NH_3)	mg/L	12 [3]	83 [3]	-	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	-	<0.0050
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.167
Total Organic Carbon (TOC)	mg/L	-	-	-	4.16
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.42
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	4.2
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00087
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00213
Barium, total (T-Ba)	mg/L	-	-	-	0.0412
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000069
Boron, total (T-B)	mg/L	1.2	-	-	0.04
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000650
Chromium, total (T-Cr)	mg/L	-	-	-	0.00271
Cobalt, total (T-Co)	mg/L	-	-	-	0.00123
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00562
Iron, total (T-Fe)	mg/L	-	-	-	3.18
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00284
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.149***
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0653
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00101
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000277
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000024
Uranium, total (T-U)	mg/L	-	-	-	0.0186
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00758
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0305
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00064
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000250
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.0024
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0265
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.16
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00208
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0043
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	-	-	-	0.000011
Benzo(a)pyrene	mg/L	0.00001	-	-	0.0000067
Chrysene	mg/L	0.0001	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	0.000019
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	-	-	-	0.00002
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 (April 5 – 11).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5]The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

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

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.016 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA26A8064-001	2026-04-06	0.000083	***0.0327***
WWTP-E-IN	Influent	WWTP-E-IN	VA26A8064-002	2026-04-06	0.000066	***0.0277***
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A8064-003	2026-04-06	0.000039	0.00962

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

Table B-4:
East Catchment Field Measurements Collected During the Monitoring Period (April 5 – 11).

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	2026-04-05 9:21	11.6	11.41	0.69	32.16	27.0	7.4	1366	No
SP-E-IN	Influent	2026-04-06 7:55	11.8	11.91	0.77	60.40	48.0	7.2	1527	No
SP-E-IN	Influent	2026-04-07 10:54	12.9	12.14	0.85	23.62	20.6	7.2	1671	No
SP-E-IN	Influent	2026-04-08 12:52	15.5	14.30	0.84	21.53	19.1	7.5	1656	No
SP-E-IN	Influent	2026-04-09 10:26	13.4	12.03	0.83	30.48	25.7	7.6	1626	No
SP-E-IN	Influent	2026-04-10 13:07	17.1	14.37	0.88	13.71	13.2	7.3	1730	No
SP-E-IN	Influent	2026-04-11 11:24	14.4	10.45	0.82	8.76	9.5	7.0	1618	No
WWTP-E-IN	Influent	2026-04-05 9:30	11.6	11.7	0.64	42.97	35.0	7.3	1277	No
WWTP-E-IN	Influent	2026-04-06 8:16	12.4	12.32	0.82	32.63	27.3	7.2	1618	No
WWTP-E-IN	Influent	2026-04-07 10:59	12.8	12.64	0.79	25.82	22.3	7.1	1564	No
WWTP-E-IN	Influent	2026-04-09 10:32	13.6	12.94	0.63	80.30	62.9	7.8	1247	No
WWTP-E-IN	Influent	2026-04-11 11:10	15.3	16.20	0.85	11.30	11.4	8.5	1674	No
Effluent [5]										
WWTP-E-OUT	Effluent	2026-04-05 9:27	11.9	11.48	2.00	1.23	3.9	6.3	3769	No
WWTP-E-OUT	Effluent	2026-04-06 14:54	13.4	11.33	0.97	2.22	4.7	6.8	1902	No
WWTP-E-OUT	Effluent	2026-04-07 10:57	12.9	11.15	0.93	2.10	4.6	6.8	1817	No
WWTP-E-OUT	Effluent	2026-04-09 10:38	13.0	***5.08***	0.87	2.09	4.6	6.6	1710	No
WWTP-E-OUT	Effluent	2026-04-11 11:19	14.4	9.60	0.81	3.39	5.5	6.5	1595	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (April 5 – 11). Results above screening values are highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field measurements for station WWTP-E-IN were not collected on April 8 and 10 as the East WWTP was not operational at the time of monitoring.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (April 5 – 11), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for station WWTP-E-OUT were not collected on April 8 and 10 as the East WWTP was not operational at the time of monitoring.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-5:
East Catchment Daily Discharge Volumes for the Monitoring Period (April 5 – 11).

	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				
2026-04-05	0	0	340	0
2026-04-06	0	0	337	0
2026-04-07	0	0	188	0
2026-04-08	0	0	14	0
2026-04-09	0	0	121	0
2026-04-10	0	0	78	0
2026-04-11	0	0	63	0

Notes:
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
[1] As noted in PE-111578 Condition 2.1.4, the annual average authorized discharge rate from the East Sedimentation Pond to Howe Sound was set to 650 m^3/day for the purpose of calculating discharge fees as required by the Permit and Approval Fees and Charges Regulation. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.
[2] East WWTP treated effluent was recirculated to the East Sedimentation Pond.

Appendix C:
West Catchment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station 2700GPM-IN	Station W2700T3-OUT	Station W2700T4-OUT
					Influent	Effluent	Effluent
					W2700-IN	W2700T3-OUT	W2700T4-OUT
					VA26A8201-002	VA26A8201-003	VA26A8201-004
		Long Term	Short Term		2026-04-07 14:33	2026-04-07 14:45	2026-04-07 15:21
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.9	7.8	7.7
Specific Conductivity - Field	µS/cm	-	-	-	228	236	234
Temperature - Field	°C	-	-	-	13.7	13.4	13.5
Salinity - Field	ppt	-	-	-	0.11	0.11	0.11
Turbidity - Field	NTU	-	-	-	128.87	1.46	3.75
TSS	mg/L	-	-	25 or 75 [5]	68.2	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	10.73	10.24	10.57
Total Hardness	mg/L	-	-	-	58	42.9	43.9
Dissolved Hardness	mg/L	-	-	-	40.3	42.3	42.4
Anions and Nutrients							
Sulphate	mg/L	-	-	-	18.4	18.8	19.1
Chloride	mg/L	-	-	-	28.6	30.1	29.6
Fluoride	mg/L	-	1.5	-	0.047	0.045	0.046
Ammonia (N-NH_3)	mg/L	3.1-5.0 [3]	21-33 [3]	-	<0.0050	<0.0050	0.0061
Nitrite (N-NO_2)	mg/L	-	-	-	0.0103	0.0101	0.0125
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.122	0.17	0.168
Total Organic Carbon (TOC)	mg/L	-	-	-	4.42	2.99	2.86
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.87	2.74	2.75
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	7.87	0.105	0.0918
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00043	0.00034	0.00033
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00224	0.0006	0.00057
Barium, total (T-Ba)	mg/L	-	-	-	0.0677	0.00146	0.0021
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000198	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.016	0.012	0.012
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.000116	<0.0000050	0.0000056
Chromium, total (T-Cr)	mg/L	-	-	-	0.00195	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.0019	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0138	0.00232	0.0014
Iron, total (T-Fe)	mg/L	-	-	-	5.53	0.033	0.025
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00689	0.000242	0.000117
Manganese, total (T-Mn)	mg/L	0.1	-	-	***0.194***	0.00502	0.00192
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.00953	0.0086	0.00885
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00158	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000078	0.000074	<0.000050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000059	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000054	0.000012	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00355	0.00121	0.00118
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0102	0.00073	0.00066
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0333	0.0037	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	0.0000102	<0.0000050	<0.0000050
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.0012	0.00109	0.00125
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	-	-	-	0.0112	0.00378	0.00121
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0464	0.0476	0.0483
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00061	0.00061	0.00057
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	0.0011	0.0017
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	-
Acridine	mg/L	-	-	-	<0.000010	-	-
Anthracene	mg/L	-	-	-	<0.000010	-	-
Benz(a)anthracene	mg/L	-	-	-	<0.000010	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050	-	-
Chrysene	mg/L	0.0001	-	-	<0.000010	-	-
Fluoranthene	mg/L	-	-	-	<0.000010	-	-
Fluorene	mg/L	0.012	-	-	<0.000010	-	-
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	-
2-methylnaphthalene	mg/L	0.001	-	-	<0.000010	-	-
Naphthalene	mg/L	0.001	-	-	<0.000050	-	-
Phenanthrene	mg/L	-	-	-	<0.000020	-	-
Pyrene	mg/L	-	-	-	<0.000010	-	-
Quinoline	mg/L	-	-	-	<0.000050	-	-
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.59	6.0	-	<0.00050	-	-
Ethylbenzene	mg/L	0.07	1.0	-	<0.00050	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-	-
Styrene	mg/L	-	-	-	<0.00050	-	-
Toluene	mg/L	0.03	3.0	-	<0.00040	-	-
Total Xylenes	mg/L	0.07	1.0	-	<0.00050	-	-
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment intermittently discharged during the monitoring period (April 5 – 11) on April 7 and 8.
[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 Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station SP-W-IN	Station SP-W-OUT	Station SP-W-OUT	Station SP-W-OUT
					Influent	Effluent	Effluent	Effluent
					SP-W-IN	SP-W-OUT-Port	SP-W-OUT-Outfall	SP-W-OUT-Outfall-DUP
					VA26A8201-001	VA26A8201-005	VA26A8201-006	VA26A8201-007
		Long Term	Short Term		2026-04-07 14:22	2026-04-07 15:29	2026-04-07 15:46	2026-04-07 15:47
General Parameters								
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.9	7.7	7.7	7.7
Specific Conductivity - Field	µS/cm	-	-	-	221	233	235	234
Temperature - Field	°C	-	-	-	13.6	13.6	14	14
Salinity - Field	ppt	-	-	-	0.11	0.11	0.11	0.11
Turbidity - Field	NTU	-	-	-	16.46	3.51	2.62	2.56
TSS	mg/L	-	-	25 or 75 [5]	10.6	<3.0	3.0	3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.05	10.53	10.47	10.52
Total Hardness	mg/L	-	-	-	42.2	42.5	42	42.5
Dissolved Hardness	mg/L	-	-	-	39.9	43.1	41.8	42.2
Anions and Nutrients								
Sulphate	mg/L	-	-	-	18.8	19	20.7	19.4
Chloride	mg/L	-	-	-	26.2	29.6	40.5	30.5
Fluoride	mg/L	-	1.5	-	0.048	0.045	0.046	0.045
Ammonia (N-NH_3)	mg/L	3.1-5.0 [3]	21-33 [3]	-	<0.0050	<0.0050	0.0065	0.0065
Nitrite (N-NO_2)	mg/L	-	-	-	0.0122	0.0117	0.0126	0.0127
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.164	0.167	0.17	0.174
Total Organic Carbon (TOC)	mg/L	-	-	-	3.0	3.13	2.93	2.87
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.7	2.79	2.78	2.8
Total Metals								
Aluminum, total (T-Al)	mg/L	-	-	-	0.988	0.108	0.205	0.205
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00038	0.00033	0.00034	0.00033
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.0008	0.00062	0.00063	0.00059
Barium, total (T-Ba)	mg/L	-	-	-	0.00931	0.00169	0.00309	0.00301
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000028	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.012	0.012	0.012	0.012
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000166	0.0000056	0.0000072	0.0000065
Chromium, total (T-Cr)	mg/L	-	-	-	0.00052	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00023	<0.00010	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00189	0.00108	0.00115	0.00113
Iron, total (T-Fe)	mg/L	-	-	-	0.619	0.04	0.106	0.105
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000786	0.00008	0.000136	0.000137
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0236	0.00471	0.00484	0.00511
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.00913	0.00845	0.009	0.00888
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000064	0.000089	0.000054	0.000073
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000014	0.000011	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	-	0.00159	0.00119	0.00122	0.00123
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00173	0.00071	0.00084	0.0008
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0038	<0.0030	0.0042	0.0042
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals								
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000050	<0.0000050	<0.0000050	0.0000061
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00163	0.00113	0.00105	0.00099
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00429	0.00206	0.00166	0.00159
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0455	0.0488	0.0471	0.0475
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00065	0.00059	0.0006	0.00059
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	0.002	0.0016	0.0016
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:
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 during the monitoring period (April 5 – 11) on April 7 and 8.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-3:
West 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]	0.0041-0.016 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A8201-001	2026-04-07	0.000034	0.00321
2700GPM-IN	Influent	W2700-IN	VA26A8201-002	2026-04-07	0.000084	***0.0184***
Effluent						
SP-W-OUT	Effluent	SP-W-OUT-Port	VA26A8201-005	2026-04-07	0.000026	0.00140
SP-W-OUT	Effluent	SP-W-OUT-Outfall	VA26A8201-006	2026-04-07	0.000035	0.00143
SP-W-OUT	Effluent	SP-W-OUT-Outfall-DUP	VA26A8201-007	2026-04-07	0.000039	0.00164
W2700T3-OUT	Effluent	W2700T3-OUT	VA26A8201-003	2026-04-07	0.000034	0.00266
W2700T4-OUT	Effluent	W2700T4-OUT	VA26A8201-004	2026-04-07	0.000029	0.00141

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

Table C-4:
West Catchment Field Measurements Collected During the Monitoring Period (April 5 – 11).

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	2026-04-05 12:03	17.1	10.95	0.04	140.32	107.7	8.0	93	No
SP-W-IN	Influent	2026-04-06 15:19	15.9	11.29	0.04	173.53	132.4	7.5	89	No
SP-W-IN	Influent	2026-04-07 10:33	12.2	10.89	0.09	64.64	51.2	7.8	181	No
SP-W-IN	Influent	2026-04-07 14:22	13.6	11.05	0.11	16.46	15.3	7.9	221	No
SP-W-IN	Influent	2026-04-08 13:10	17.4	14.02	0.73	65.1	51.6	7.6	1455	No
SP-W-IN	Influent	2026-04-09 10:11	13.4	13.45	0.64	153.9	117.8	7.7	1282	No
SP-W-IN	Influent	2026-04-10 13:19	19.3	13.05	0.63	123.63	95.2	8.3	1251	No
SP-W-IN	Influent	2026-04-11 11:48	14.1	11.88	0.42	60.62	48.2	7.5	841	No
2700GPM-IN	Influent	2026-04-07 10:36	12.0	11.08	0.11	152.25	116.5	7.9	236	No
2700GPM-IN	Influent	2026-04-07 14:33	13.7	10.73	0.11	128.87	99.1	7.9	228	No
Effluent [5]										
SP-W-OUT	Effluent	2026-04-07 15:46	14.0	10.47	0.11	2.62	5.0	7.7	235	No
W2700T3-OUT[5]	Effluent	2026-04-08[5]	-[5]	-[5]	-[5]	0.15 [5]	3.1	7.3 [5]	-[5]	-[5]
W2700T4-OUT[5]	Effluent	2026-04-08[5]	-[5]	-[5]	-[5]	0.66 [5]	3.5	7.4 [5]	-[5]	-[5]

Notes:
West catchment influents for April 5 – 11 were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
[5] As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent from trains 3 and 4 was intermittently discharged to Howe Sound at the authorized discharge location (SP-W-OUT) during the monitoring period (April 5 – 11) on April 7 and 8. Daily field parameters were not collected from station SP-W-OUT on April 8 as there was no discharge to Howe Sound at the time of monitoring. In-line field pH and turbidity measurements recorded at the end of the discharge period on April 8 at the outlet of trains 3 and 4 (trains discharging on April 8) are shown in lieu of daily field measurements. Daily field parameters were not collected from station SP-W-OUT on April 5, 6 and April 9 – 11 as there was no discharge to Howe Sound 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 C-5:
West Catchment Daily Discharge Volumes for the Monitoring Period (April 5 – 11).

	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					
2026-04-05	0	0	0	0	0
2026-04-06	0	0	0	0	0
2026-04-07	0	1,547	0	0	771
2026-04-08	0	653	0	0	558
2026-04-09	0	0	0	0	0
2026-04-10	0	0	0	0	0
2026-04-11	0	0	0	0	0

Notes:
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
[1] The West WWTP is not being operated therefore discharges are not expected from this facility.
[2] As noted in PE-111578 Condition 2.2.4, the annual average authorized discharge rate from the West Sedimentation Pond to Howe Sound was set to 310 m^3/day for the purpose of calculating discharge fees as required by the Permit and Approval Fees and Charges Regulation. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.
[3] Clarified effluent from the 2700GPM TSS settling system is recirculated to the West Sedimentation Pond, discharged to Howe Sound or reclaimed for construction purposes based on operational considerations. Daily discharge volumes from station 2700GPM-OUT are a sum of all active treatment trains.

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

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

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station OUT-02 Non-contact Water Diversion Ditch Outlet OUT-02 VA26A7528-001
		Long Term	Short Term	2026-03-30 14:33
General Parameters				
pH - Field	pH units	6.5 - 9.0	-	7.71
Specific Conductivity - Field	µS/cm	-	-	13
Temperature - Field	°C	-	-	5.5
Salinity - Field	ppt	-	-	0
Turbidity - Field	NTU	-	-	1.82
TSS	mg/L	-	-	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.94
Total Hardness	mg/L	-	-	3.94
Dissolved Hardness	mg/L	-	-	4.01
Anions and Nutrients				
Sulphate [2]	mg/L	128	-	1.44
Chloride	mg/L	120	600	<0.50
Fluoride [2]	mg/L	-	0.400	<0.020
Ammonia ($N\text{-}NH_3$) [2]	mg/L	1.54-1.95	10.1	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.200	0.6	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0443
Total Organic Carbon (TOC)	mg/L	-	-	2.48
Total Inorganic Carbon (DOC)	mg/L	-	-	2.58
Total Metals				
Aluminum, total (T-Al) [2]	mg/L	0.172	-	0.119
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010
Barium, total (T-Ba)	mg/L	1	-	0.00268
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010
Cadmium, total (T-Cd) [2]	mg/L	0.0000364	0.000106	<0.0000050
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000389	-	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050
Iron, total (T-Fe)	mg/L	0.3	1	0.013
Lead, total (T-Pb)	mg/L	-	-	<0.000050
Manganese, total (T-Mn) [2]	mg/L	-	-	0.00072
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000447
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000087
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030
Hexavalent Chromium, total	mg/L	0.001	-	-
Dissolved Metals				
Cadmium, dissolved (D-Cd) [2]	mg/L	0.0000196	0.0000380	<0.0000050
Copper, dissolved (D-Cu) [2]	mg/L	0.000706	0.00402	0.0005
Iron, dissolved (D-Fe)	mg/L	-	0.35	<0.010
Lead, dissolved (D-Pb) [2]	mg/L	0.00175	-	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.160	1.97	0.0004
Nickel, dissolved (D-Ni) [2]	mg/L	0.00100	0.0131	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00546
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00275	0.00946	0.0012
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	mg/L	0.0058	-	-
Acridine	mg/L	0.003	-	-
Anthracene	mg/L	0.000012	-	-
Benz(a)anthracene	mg/L	0.000018	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-
Chrysene	mg/L	-	-	-
Fluoranthene	mg/L	0.00004	-	-
Fluorene	mg/L	0.003	-	-
1-methylnaphthalene	mg/L	-	-	-
2-methylnaphthalene	mg/L	-	-	-
Naphthalene	mg/L	0.001	0.001	-
Phenanthrene	mg/L	0.0003	-	-
Pyrene	mg/L	0.00002	-	-
Quinoline	mg/L	0.0034	-	-
Volatile Organic Compounds (VOCs)				
Benzene	mg/L	0.04	-	-
Ethylbenzene	mg/L	0.09	-	-
Methyl-tert-butyl-ether	mg/L	10	3.4	-
Styrene	mg/L	0.072	-	-
Toluene	mg/L	0.0005	-	-
Total Xylenes	mg/L	0.03	-	-
Chlorobenzene	mg/L	0.0013	-	-
1,2-Dichlorobenzene	mg/L	0.0007	-	-

Notes:
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of freshwater aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of freshwater aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] BC WQG or CWQG indicated to be variable are calculated from sample-specific measurements for temperature, field pH, total hardness and dissolved organic carbon (DOC) content.
[3] The approved BC WQG for hexavalent chromium [Cr(VI)] is 0.001 mg/L and 0.0089 mg/L for trivalent chromium [Cr(III)]. The more conservative criteria for Cr(VI) is applied to total chromium results.
The lowest applicable guidelines are shown in the table; however, water quality data was screened to all applicable guidelines.

Table D-2:
Non-contact Water Diversion Ditch Outlet Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.0087-0.013 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
OUT-02	Non-Contact Water Diversion Ditch Outlet	OUT-02	VA26A6973-001	2026-03-24	0.000020	0.00261
OUT-02	Non-Contact Water Diversion Ditch Outlet	OUT-02	VA26A7528-001	2026-03-30	0.000022	0.00191

Notes:
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of freshwater aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] From BC Ambient Water Quality Guidelines for Mercury Overview Report. The methylmercury concentration threshold of 0.0001 µg/L (0.1 ng/L) is indicated as a WQG for the protection of wildlife and is set at a concentration that protects fish from mercury bioaccumulation to a level that may harm wildlife that consume fish.
[3] CCME guideline for total mercury = 0.026 µg/L.
[4] When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 µg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result reported as not detected.
Non-detect results are screened using the detection limit value.

Appendix E: Marine Water Receiving Environment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1]		Station IDZ-E1	Station IDZ-E1	Station IDZ-E1	Station IDZ-E2	Station IDZ-E2	Station IDZ-E2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				IDZ-E1-0.5	IDZ-E1-2m	IDZ-E1-SF	IDZ-E2-0.5	IDZ-E2-2m	IDZ-E2-SF
				VA26A7389-001	VA26A7389-002	VA26A7389-003	VA26A7389-004	VA26A7389-005	VA26A7389-006
		Long Term	Short Term	2026-03-27 10:50	2026-03-27 10:40	2026-03-27 10:35	2026-03-27 11:20	2026-03-27 11:15	2026-03-27 11:05
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.89	7.47	7.52	7.9	7.52	7.5
Specific Conductivity - Field	µS/cm	-	-	7346	22303	45815	8301	29774	45898
Temperature - Field	℃	-	-	5.2	6.6	9.0	5.5	7.3	9.0
Salinity - Field	ppt	Narrative [2]	-	4.03	13.33	29.46	4.59	18.28	29.52
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	1.32	1.35	0.31	1.21	1.18	0.34
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	5.7	4.1	<2.0	4.2	2.8
Dissolved Oxygen - Field	mg/L	>=8	-	12.17	12.04	***6.87***	11.79	10.7	***6.60***
Total Hardness	mg/L	-	-	614	4460	4970	647	3790	4790
Dissolved Hardness	mg/L	-	-	712	2850	5170	583	848	5060
Anions and Nutrients									
Sulphate	mg/L	-	-	238	1800	2180	245	1560	2170
Chloride	mg/L	-	-	2030	13400	16300	2100	11700	16100
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	4.7-13 [3]	31-85 [3]	0.0163	0.0429	0.0095	0.0143	0.0613	0.0135
Nitrite (N-NO_2)	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate (N-NO_3)	mg/L	3.7	339	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.68	1.34	1.02	1.65	1.45	1.04
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.61	1.42	1.06	1.57	1.55	0.99
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.081	0.0261	0.0156	0.0762	0.0359	0.0101
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	0.00122	0.00131	<0.00040	0.00102	0.00132
Barium, total (T-Ba)	mg/L	-	-	0.009	0.0102	0.01	0.0083	0.0099	0.0099
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	0.52	***2.69***	***3.19***	0.49	***2.21***	***3.21***
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000062	0.00008	<0.000020	0.000061	0.000089
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000085	<0.000050	0.000073	0.000078	0.000066	0.00006
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00069	<0.00050	<0.00050	0.00074	0.00059	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.128	0.025	0.025	0.112	0.04	0.013
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.00883	0.00321	0.00333	0.00776	0.00434	0.00292
Molybdenum, total (T-Mo)	mg/L	-	-	0.00144	0.00759	0.00845	0.00139	0.00648	0.00861
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000347	0.00198	0.00219	0.000398	0.00175	0.00209
Vanadium, total (T-V)	mg/L	0.005	-	0.00066	0.00116	0.00131	0.00058	0.00104	0.00134
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	0.000039	0.000074	0.000022	<0.000020	0.000062
Copper, dissolved (D-Cu)	mg/L	-	-	0.00103	<0.00050	<0.00050	<0.00050	0.00054	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.043	0.018	<0.010	0.042	0.037	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00752	0.00457	0.00194	0.00679	0.00698	0.002
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.866	3.11	5.94	0.713	0.925	6.06
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.0008	0.0013	<0.00050	<0.00050	0.00138
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0012	<0.0010	<0.0010	0.0013	<0.0010	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	0.000016	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

Notes:
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] Induced guidelines for change from background conditions arising from discharges to the aquatic environment. Salinity WQG was not evaluated. The water quality data presented in the table were collected when the site was discharging intermittently for <24 hours, therefore the turbidity and TSS short-term WQGs were evaluated. Background conditions at each depth (0.5 and 2 m below surface and 2 m above the seafloor) were established from reference station WQR1 collected March 27 (Table E-3).
[3] The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.

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

Parameter	Unit	Lowest Applicable Guideline [1]		Station IDZ-W1	Station IDZ-W1	Station IDZ-W1	Station IDZ-W2	Station IDZ-W2	Station IDZ-W2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				IDZ-W1-0.5	IDZ-W1-2m	IDZ-W1-SF	IDZ-W2-0.5	IDZ-W2-2m	IDZ-W2-SF
				VA26A7431-001	VA26A7431-002	VA26A7431-003	VA26A7431-004	VA26A7431-005	VA26A7431-006
		Long Term	Short Term	2026-03-28 11:40	2026-03-28 11:30	2026-03-28 11:15	2026-03-28 12:06	2026-03-28 11:59	2026-03-28 11:49
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.96	7.77	7.43	7.86	7.8	7.46
Specific Conductivity - Field	µS/cm	-	-	13545	38589	46703	18179	25877	46939
Temperature - Field	℃	-	-	6.0	8.0	9.1	6.7	8.0	9.2
Salinity - Field	ppt	Narrative [2]	-	7.77	24.33	30.1	10.69	24.13	30.28
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	1.52	0.89	0.88	1.71	1.22	1.35
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	<2.0	4.2	<2.0	4.1	5.2
Dissolved Oxygen - Field	mg/L	>=8	-	11.37	9.26	***6.48***	10.98	9.38	***6.7***
Total Hardness	mg/L	-	-	955	2550	5000	1650	3420	4870
Dissolved Hardness	mg/L	-	-	1130	3680	4780	1600	3510	4640
Anions and Nutrients									
Sulphate	mg/L	-	-	426	1020	2160	722	1490	2000
Chloride	mg/L	-	-	3400	7810	16000	5630	11200	14900
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	4.7-13 [3]	31-85 [3]	0.0216	0.0306	0.0152	0.0248	0.0373	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate (N-NO_3)	mg/L	3.7	339	<0.50	<0.50	0.51	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.72	1.57	1.09	1.73	1.43	1.02
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.56	1.31	1.02	1.53	1.3	0.93
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.0608	0.0447	0.0115	0.049	0.0238	0.0099
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	0.00075	0.00135	0.00054	0.00095	0.00146
Barium, total (T-Ba)	mg/L	-	-	0.0089	0.0103	0.0103	0.0107	0.0107	0.0096
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	0.72	***1.58***	***3.00***	1.14	***2.18***	***3.02***
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.000024	0.000035	0.000086	0.000032	0.000053	0.000085
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000077	0.000067	0.000059	0.000079	0.000069	0.000055
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00061	0.00054	<0.00050	0.0007	0.00057	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.099	0.07	0.014	0.098	0.036	0.016
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.00737	0.00616	0.00315	0.00794	0.004	0.00282
Molybdenum, total (T-Mo)	mg/L	-	-	0.00208	0.00427	0.00886	0.0033	0.00627	0.00876
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000567	0.00123	0.00219	0.000804	0.00151	0.00207
Vanadium, total (T-V)	mg/L	0.005	-	0.00069	0.0009	0.00138	0.00085	0.00105	0.00128
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.00003	0.00005	0.000079	0.000034	0.000056	0.000081
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	0.00085	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.038	0.01	<0.010	0.039	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00782	0.00332	0.00226	0.0073	0.00351	0.00218
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	1.5	4.58	6.02	2.05	4.54	6.2
Vanadium, dissolved (D-V)	mg/L	-	-	0.00055	0.00112	0.00131	0.00064	0.00109	0.00127
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0013	0.0015	0.0018	0.001	0.0013	0.0014
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	0.000018	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

Notes:
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] Induced guidelines for change from background conditions arising from discharges to the aquatic environment. Salinity WQG was not evaluated. The water quality data presented in the table were collected when the site was discharging intermittently for <24 hours, therefore the turbidity and TSS short-term WQGs were evaluated. Background conditions at each depth (0.5 and 2 m below surface and 2 m above the seafloor) were established from reference station WQR2 collected March 28 (Table E-3).
[3] The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.

Table E-3:
Summary of Marine Water Quality Results Received at the Time of Reporting

Parameter	Unit	Lowest Applicable Guideline [1]		Reference Station WQR1	Reference Station WQR1	Reference Station WQR1	Reference Station WQR2	Reference Station WQR2	Reference Station WQR2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor	0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				WQR1-0.5	WQR1-2m	WQR1-SF	WQR2-0.5	WQR2-2m	WQR2-SF
				VA26A7389-007	VA26A7389-008	VA26A7389-009	VA26A7431-007	VA26A7431-008	VA26A7431-009
		Long Term	Short Term	2026-03-27 9:55	2026-03-27 9:56	2026-03-27 9:58	2026-03-28 10:45	2026-03-28 10:30	2026-03-28 10:21
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	8.06	7.83	7.58	8.05	7.77	7.50
Specific Conductivity - Field	µS/cm	-	-	10792	32868	46275	13645	41131	46926
Temperature - Field	℃	-	-	5.6	6.8	9.2	6	8.2	9.2
Salinity - Field	ppt	Narrative [2]	-	6.08	20.34	29.87	7.83	26.11	30.27
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	1.26	1.01	0.24	1.09	0.47	0.43
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	<2.0	<2.0	2.2	2.8	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	11.49	10.76	***6.51***	11.4	8.95	***6.08***
Total Hardness	mg/L	-	-	870	3690	4730	1180	2730	4750
Dissolved Hardness	mg/L	-	-	992	3400	5150	1170	4490	4810
Anions and Nutrients									
Sulphate	mg/L	-	-	347	1600	2210	531	1120	2200
Chloride	mg/L	-	-	2900	11900	16400	4070	8420	16200
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	2.9-13 [3]	19-85 [3]	0.0209	0.0443	0.0056	0.0236	0.0304	0.0051
Nitrite (N-NO_2)	mg/L	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrate (N-NO_3)	mg/L	3.7	339	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.71	1.41	1.08	1.57	1.63	1.12
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.52	1.35	1.04	1.49	1.26	1.02
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.072	0.0318	0.0101	0.0527	0.037	0.0102
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	0.00099	0.00135	0.00041	0.00078	0.00134
Barium, total (T-Ba)	mg/L	-	-	0.0095	0.0105	0.0099	0.0106	0.0098	0.01
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	0.64	***2.31***	***3.07***	0.82	***1.71***	***2.94***
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000063	0.000084	0.000026	0.000041	0.00008
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	0.00061	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000089	0.00007	0.000063	0.000095	0.000061	0.000051
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00076	0.00056	<0.00050	0.00069	0.00071	0.00051
Iron, total (T-Fe)	mg/L	-	-	0.123	0.033	0.014	0.115	0.066	0.014
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.00894	0.00353	0.00296	0.0095	0.00558	0.0026
Molybdenum, total (T-Mo)	mg/L	-	-	0.0019	0.00624	0.00833	0.00241	0.00453	0.00886
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000468	0.00164	0.00216	0.000601	0.00126	0.00212
Vanadium, total (T-V)	mg/L	0.005	-	0.00069	0.00105	0.0013	0.00073	0.00089	0.00131
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0063
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150
Dissolved Metals									
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.000026	0.00005	0.000077	0.000021	0.000063	0.000066
Copper, dissolved (D-Cu)	mg/L	-	-	0.00058	<0.00050	<0.00050	0.00051	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.042	<0.010	<0.010	0.041	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00762	0.00308	0.00233	0.0086	0.00159	0.00164
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	1.23	4.15	6.54	1.55	5.32	6.21
Vanadium, dissolved (D-V)	mg/L	-	-	0.0005	0.00098	0.00134	0.00057	0.00125	0.00139
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0010	<0.0010	<0.0010	0.002	0.0015	0.003
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)									
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

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

Table E-4:
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]	0.011-0.019 [3,4]
Station	**Position in Water Column**	**Sample ID**	**Lab ID**	**Sampling Date**		
Station IDZ-E1						
IDZ-E1	0.5 m Below Surface	IDZ-E1-0.5	VA26A5157-001	2026-03-04	<0.000020	<0.0050
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA26A5157-002	2026-03-04	<0.000020	<0.0050
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA26A5157-003	2026-03-04	<0.000020	<0.0050
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA26A5157-004	2026-03-04	0.000045	<0.0050
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA26A5157-005	2026-03-04	0.000027	<0.0050
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA26A5157-006	2026-03-04	<0.000020	<0.0050
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26A6844-004	2026-03-23	<0.000020	<0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26A6844-005	2026-03-23	<0.000020	<0.0050
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26A6844-006	2026-03-23	<0.000020	<0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26A6844-007	2026-03-23	<0.000020	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26A6844-008	2026-03-23	0.000028	<0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26A6844-009	2026-03-23	<0.000020	<0.0050
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA26A5157-007	2026-03-04	<0.000020	<0.0050
WQR1	2 m Below Surface	WQR1-2m	VA26A5157-008	2026-03-04	0.000030	<0.0050
WQR1	2 m Above Seafloor	WQR1-SF	VA26A5157-009	2026-03-04	0.000031	<0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26A6844-001	2026-03-23	0.000021	<0.0050
WQR2	2 m Below Surface	WQR2-2m	VA26A6844-002	2026-03-23	<0.000020	<0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA26A6844-003	2026-03-23	<0.000020	<0.0050

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