TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 8 May 2026**
From:	**Holly Pelletier and Cheng Kuang (Lorax)**	**Project #: A825-1**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #112 for April 26 – May 2**	

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 #112) was prepared by Lorax and summarizes WDA monitoring conducted for the period of April 26 – May 2. 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 #112 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

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

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

1. Current Conditions

1.1 Water Management Infrastructure

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

Generally warm and sunny weather conditions were observed during the April 26 – May 2 monitoring period, with relatively minor precipitation recorded on April 28 (4.8 mm). The daily weather conditions are summarized in Table 1.

Table 1:
Summary of Certified Project Area (CPA) Daily Weather Conditions.

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2026-04-26	0	18.7	6.8	Sunny
2026-04-27	0	16.6	6.9	Sunny
2026-04-28	4.8	14.1	9.3	Mix of Sun and Cloud
2026-04-29	0	19.1	9.4	Sunny
2026-04-30	0	20.5	8.9	Sunny
2026-05-01	0	20.2	10.0	Sunny
2026-05-02	0	23.9	10.7	Sunny

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

From April 26 – May 2, the East Sedimentation Pond received 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 26 – May 2 (Appendix B, Table B-6).

Routine operation of the East WWTP continued during the monitoring period (April 26 – May 2). Concrete contact water and water from the Hydrovac Pit was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond on April 27, 28, May 1 and 2. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-6).

From April 26 – May 2, the West Sedimentation Pond received water from the Area 4100 Sump 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 27 – 29 and May 2 and recirculated back to the pond. West Sedimentation Pond effluent was not discharged to Howe Sound during the monitoring period April 26 – May 2. A total of 68 m^3 of clarified effluent was reclaimed for construction use during the monitoring period April 26 – May 2. Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond or reclaimed for construction use are provided in Appendix C (Table C-6).

2. Monitoring Summary

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

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

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02 and OUT-06).
- Creek water monitoring stations for Woodfibre, Mill and East Creek (SW-01, SW-02, SW-03, SW-04, SW-07).
- Contact water monitoring locations (SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and 2700GPM-OUT).
- Supplementary contact water stations at the outlet of each sampling train. These samples are identified as W2700T#-OUT (with # equal to the train number).
- Effluent compliance stations (SP-E-OUT and SP-W-OUT). As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. From late September to early December 2025, SP-W-OUT was sampled from the discharge manhole. From December 1 to 8, a pipe manifold was installed that combines effluent from the individual trains into a single discharge line and is configured with a sampling port. Since December 8, samples have been collected at the sampling port or at the outfall.
- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

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

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

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

Water quality was monitored at stations SW-01, SW-02, SW-03, SW-04, SW-07, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, and W2700T1-OUT during the monitoring period (April 26 – May 2). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (April 26 – May 2) 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. Monthly PE-111578 monitoring requirements were met for the month of April.

Daily field parameters and a weekly analytical sample were not collected at the east and west catchment effluent compliance stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound from the East and West Sedimentation Ponds during the monitoring period (April 26 – May 2). Daily field measurements for East WWTP influent and effluent stations (WWTP-E-IN and WWTP-E-OUT, respectively) were not collected on April 26, 28, 29, 30 nor May 2 as the East WWTP was not operational at the time of monitoring. Daily field parameters and a weekly analytical sample were not collected at the influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) as it was not operational during the monitoring period (April 26 – May 2).

Table 2:
Summary of PE-111578 Monitoring Samples Collected April 26 – May 2.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
April 26, 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
April 27, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P
	SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	SW-03	Mill Creek Estuary		
	SW-07	Upstream Mill Creek (at the diversion inlet)		
April 28, 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, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		
	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)		
April 29, 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
April 30, 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
May 1, 2026	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
May 2, 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
	2700GPM-IN	2700GPM TSS settling system influent monitored at cell 4 of the pond	Field Parameters.	P

Notes:
Monitoring frequency requirements under PE-111578 are indicated as follows:
D – daily monitoring of field parameters at WWTP and sedimentation pond influent and effluent stations.
M – monthly monitoring for all parameters at WWTP, sedimentation pond and receiving environment stations. Monthly monitoring for General parameters, except ammonia, nitrate and nitrite (*i.e.*, nitrogen species) are monitored weekly during blasting season.
M_2 – bi-monthly monitoring for physical parameters at WWTP and sedimentation pond stations.
M_5 – 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 #112) are listed below in Table 3, with additional field measurements presented in Table B-5 (Appendix B) and Table C-5 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- SW-01 and SW-04 collected April 9 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected April 10 (dioxins and furans);
- OUT-02 collected April 13 (total mercury and methylmercury);
- SW-02, SW-03 and SW-07 collected April 15 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected April 15 (dioxins and furans);
- SW-01 and SW-04 collected April 16 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected April 16 (dioxins and furans);
- SW-02, SW-03 and SW-07 collected April 21 (total mercury, methylmercury, dioxins and furans);
- SW-01 and SW-04 collected April 22 (total mercury, methylmercury, dioxins and furans);
- SW-02, SW-03 and SW-07 collected April 27 (field and all analytical parameters);
- SW-01 and SW-04 collected April 28 (field and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #112.

Sample	Description	Sampling Date	Parameters Reported
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	April 2, 2026	Dioxins and Furans.
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	April 3, 2026	Dioxins and Furans.
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
WQR2-0.5	Reference site 2; 0.5 m below surface		
WQR2-2m	Reference site 2; 2 m below surface		
WQR2-SF	Reference site 2; 2 m above the seafloor		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	April 6, 2026	Dioxins and Furans.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	April 7, 2026	Dioxins and Furans.
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	April 8, 2026	Dioxins and Furans.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	April 9, 2026	Dioxins and Furans.
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
WQR2-0.5	Reference site 2; 0.5 m below surface		
WQR2-2m	Reference site 2; 2 m below surface		
WQR2-SF	Reference site 2; 2 m above the seafloor		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	April 15, 2026	Total Mercury and Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs and Methylmercury.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
OUT-01	Non-contact water diversion ditch outlet		Total Mercury and Methylmercury.
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs 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		

Table 3 (continued):
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #112.

Sample	Description	Sampling Date	Parameters Reported
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	April 16, 2026	Total Mercury and Methylmercury.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, PAHs 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		
OUT-01	Non-contact water diversion ditch outlet	April 19, 2026	Total Mercury and Methylmercury.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	April 20, 2026	Total Mercury and Methylmercury.
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the SP-W-OUT outfall structure		
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a SP-W-OUT sampling port		
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5		
W2700T6-OUT	2700GPM TSS settling system at the outlet of Train 6		
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)	April 21, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SW-03	Mill Creek Estuary		
SW-07	Upstream Mill Creek (at the diversion inlet)		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	April 22, 2026	Total Mercury and Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	April 27, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium and Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	April 28, 2026	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium and Methylmercury.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		
W2700T1-OUT	2700GPM TSS settling system at the outlet of Train 1		

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 26 – May 2 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT), as well as analytical results for samples collected April 15 (total mercury and methylmercury for stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT; as discussed in Report #110), April 22 (total mercury and methylmercury for stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT; as discussed in Report #111) and April 27 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) collected April 26 – May 2 and the analytical samples collected April 15 and 22 (total mercury and methylmercury) and April 27 met MDOs except for dissolved oxygen on May 1 and total mercury and methylmercury on April 15, 22 and 27 (Appendix B, Table B-1, Table B-3 and Table B-5). Metal parameters above MDOs are tracked in Table 5.

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from April 26 – May 2 (Section 1.2; Table B-6 of Appendix B). Therefore, water quality samples and field measurements were not collected at the SP-E-OUT discharge location.

Dioxins and furans results were available at the time of reporting for East Sedimentation Pond influent as well as East WWTP influent and effluent collected on April 6 (as discussed in Report #109). Results are presented in Appendix B, Table B-4.

3.4 West Catchment

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

As discussed in Section 1.2, clarified sedimentation pond effluent from the 2700GPM TSS Settling System was recirculated to the West Sedimentation Pond and did not discharge to Howe Sound from SP-W-OUT during the monitoring period (April 26 – May 2).

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected April 26 – May 2, as well as analytical samples collected April 20 (total mercury and methylmercury for stations SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T5-OUT and W2700T6-OUT; as discussed in Report #111) and April 28 (stations SP-W-IN, 2700GPM-IN and W2700T1-OUT).

Clarified effluent from the 2700GPM TSS Settling System was directed to the West Sedimentation Pond and there was no discharge from the pond to Howe Sound from April 26 – May 2 (Section 1.2; Table C-6 of Appendix C). Therefore, water quality samples and field measurements were not collected at the SP-W-OUT discharge location.

Dioxins and furans results were available at the time of reporting for West Sedimentation Pond and 2700GPM TSS settling system influent as well as clarified sedimentation pond effluent from the 2700GPM TSS settling system that was discharged to Howe Sound from SP-W-OUT on April 7 (as discussed in Report #109). Results are presented in Appendix C, Table C-4.

3.5 Non-Contact Water Diversion Ditch Outlets

Total mercury and methylmercury analytical results were available at the time of reporting for the non-contact water diversion ditch outlet samples collected at stations OUT-01 and OUT-02 on April 15 and April 19, respectively (as discussed in Reports #110 and #111, respectively). The methylmercury concentrations were 0.000021 and 0.000036 µg/L in the samples collected at

OUT-01 and OUT-02, respectively, and met the WQG. The corresponding total mercury results met the WQG. Results are tabulated in Appendix D, Table D-1.

3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on April 15 and 21 as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on April 22 (as discussed in Report #110 and #111). The analytical results, field parameters, and WQGs are summarized in Appendix E (freshwater) and Appendix F (estuarine water).

Parameter concentrations met WQGs except field pH, fluoride, total aluminum, and dissolved copper in some of the freshwater samples (Appendix E, Table E-1 and Table E-2). Field pH was below the lower range of the WQG (pH 6.5) in the sample collected from Woodfibre Creek on April 22 (pH 6.1). Fluoride was above the long-term WQG in the sample collected from East Creek on April 22 (0.287 mg/L). Total aluminum was above the long-term WQG in samples collected from mid-stream Mill Creek (station SW-02) on April 15 (0.0904 mg/L) and the background station on Mill Creek on April 15 and 21 (0.0868 and 0.101 mg/L, respectively) as well as in samples collected from Woodfibre and East Creek on April 22 (0.173 and 0.102 mg/L, respectively). Dissolved copper was above the long-term WQG in samples collected from Mill Creek (stations SW-02 and SW-07) on April 15 (0.00033 and 0.00025 mg/L, respectively) and from Woodfibre and East Creek on April 22 (0.00022 and 0.00028 mg/L, respectively).

The field pH value in the sample collected from Woodfibre Creek on April 22 (pH 6.1) was within the range observed in the pre-construction baseline monitoring program (pH 5.4 to 7.6 for Woodfibre Creek) and within the range observed at the background station for Woodfibre Creek (pH 5.2 to 6.5).

The total aluminum concentrations measured in the downstream station on Mill Creek (station SW-02) on April 15 (0.0904 mg/L) as well as in the downstream stations on Woodfibre and East Creek (stations SW-01 and SW-04, respectively) on April 22 (0.173 and 0.102 mg/L, respectively) were within ranges observed in the pre-construction baseline monitoring program (0.0179 to 0.245 mg/L for Mill Creek, 0.0379 to 0.294 mg/L for Woodfibre Creek and 0.0158 to 0.264 mg/L for East Creek) or within ranges observed at the background stations for Mill, Woodfibre and East Creek (0.0210 to 0.337 mg/L for Mill Creek, 0.0428 to 0.250 mg/L for Woodfibre Creek and 0.0299 to 0.411 mg/L for East Creek).

The dissolved copper concentrations measured in the downstream station on Mill Creek (station SW-02) on April 15 (0.00033 mg/L) as well as in the downstream stations on Woodfibre and East

Creek (stations SW-01 and SW-04, respectively) on April 22 (0.00022 and 0.00028 mg/L, respectively) were within ranges observed in the pre-construction baseline monitoring program (0.00012 to 0.00031 mg/L for Mill Creek, 0.00017 to 0.00074 mg/L for Woodfibre Creek and 0.00020 to 0.00105 mg/L for East Creek) or within ranges observed at the background stations for Mill, Woodfibre and East Creek (0.00016 to 0.00054 mg/L for Mill Creek, <0.00020 to 0.00051 mg/L for Woodfibre Creek and 0.00045 to 0.00137 mg/L for East Creek).

The fluoride concentration measured in East Creek (SW-04) on April 16 (0.287 mg/L) was above the upper range observed in the pre-construction baseline monitoring program (<0.1 mg/L) and above ranges observed at the background station for East Creek (<0.020 to 0.028 mg/L; Table 4). Potential sources of fluoride to East Creek are being reviewed. This item is tracked in Table 5.

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

Parameter	Units	WQG[1]	N	N >WQG	Commentary
Fluoride	mg/L	0.12	1	1	Fluoride measured in East Creek (SW-04) on April 22 (0.287 mg/L) was 2.4 times greater than the WQG. The fluoride concentration was 2.9 times greater than the maximum concentration observed in the pre-construction baseline monitoring program at East Creek (<0.1 mg/L).

N = number of samples.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal (ECCC) WQGs.

Total mercury and methylmercury analytical results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on April 15 as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on April 16 (as discussed in Report #110). Methylmercury concentrations were <0.000020 µg/L in all samples and met the WQG. The corresponding total mercury results met the WQG. Results are tabulated in Appendix E, Table E-3 (freshwater) and Appendix F, Table F-2 (estuarine water).

Dioxin and furans results were available at the time of reporting for freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on April 8 (as discussed in Report #109). The lower and upper bound PCDD/F TEQ concentrations measured in these samples ranged from 0 to 0.669 pg/L and from 1.70 to 5.20 pg/L, respectively. The lower and upper bound PCDD/F TEQ concentrations at the downstream stations on Mill Creek (SW-02 and SW-03) were within the concentration ranges observed in the pre-construction baseline monitoring program in Mill Creek (0 pg/L and 5.25 pg/L, respectively) or within ranges observed at the background station on Mill Creek (0 to 0.610 pg/L

and 0.431 to 5.20 pg/L). Results are tabulated in Appendix E, Table E-4 (freshwater) and Appendix F, Table F-3 (estuarine water).

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 April 15 (stations IDZ-W1, IDZ-W2 and WQR2) and April 16 (stations IDZ-E1, IDZ-E2 and WQR1), as discussed in Report #110. The analytical results, field parameters, and WQGs are summarized in Appendix G.

Parameter concentrations met WQGs except field pH, dissolved oxygen and total boron in some samples (Appendix G; Table G-1 through Table G-3). Field pH was above the upper range of the WQG (pH 8.7) in the samples collected at IDZ-W1 and IDZ-W2 at 0.5 m below the surface on April 15 (pH 8.75 to 8.77, respectively). Dissolved oxygen concentrations below the lower limit of the WQG (8 mg/L) in the samples collected at 2 m above the seafloor at IDZ-E2 and reference station WQR1 on April 16 (7.30 and 6.81 mg/L, respectively). Total boron was above the WQG (1.2 mg/L) and ranged from 1.35 to 3.86 mg/L in all marine water samples collected at 2 m below the surface and at 2 m above the seafloor on April 15 and 16, except at 2 m below the surface at IDZ-E1 on April 16.

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).

The field pH values in the samples collected at IDZ-W1 and IDZ-W2 at 0.5 m below the surface on April 15 (pH 8.75 to 8.77, respectively) were slightly above the upper range of the WQG (pH 8.7). Laboratory pH values for these samples were pH 7.40 and 7.33, respectively, and met the WQG. The West Sedimentation Pond clarified effluent discharged from SP-W-OUT on April 15 had a field pH of 7.16 (as discussed in Report #110). Given the above, it is speculated that the field pH measured in the April 15 IDZ-W1 and IDZ-W2 samples may be associated with natural fluctuations in field conditions and is unlikely to be related to Project influence.

Methylmercury analytical results were available at the time of reporting for all marine water samples collected April 15 (stations IDZ-W1, IDZ-W2 and WQR2) and April 16 (stations IDZ-E1, IDZ-E2 and WQR1), as discussed in Report #110. For all samples, methylmercury concentrations

ranged from <0.000020 to 0.000021 µg/L and met the WQG. The corresponding total mercury results met WQGs. Results are tabulated in Appendix G, Table G-4.

Dioxin and furans results were available at the time of reporting for marine samples collected at 0.5 and 2 m below the water surface and 2 m above the seafloor on April 2 (stations IDZ-E1, IDZ-E2 and WQR1), April 3 (stations IDZ-W1, IDZ-W2 and WQR2) and April 9 (stations IDZ-W1, IDZ-W2 and WQR2), as discussed in Reports #108 and #109. For all samples, the lower bound PCDD/F TEQ concentrations ranged from 0 to 0.0913 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 1.20 to 3.93 pg/L. The lower and upper bound PCDD/F TEQ concentrations were within the concentration ranges observed in the pre-construction baseline monitoring program (0 to 2.64 pg/L and 0 to 7.06 pg/L, respectively) or within background ranges observed at marine reference stations (0 to 0.941 pg/L and 0.499 to 5.65 pg/L, respectively). Results are tabulated in Appendix G, Table G-5.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (Table 5). The evaluation includes a review of field and lab QC, completeness of the weekly report (*e.g.*, pending data), completeness of the monitoring program, confirmation of record keeping, evaluation of compliance and review of water management activities. Items flagged for follow-up in Section 3 are also tracked in Table 5. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 5:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (April 26 – May 2, Report #112)		
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 #112: WWTP Performance Evaluation	Total mercury and methylmercury above the MDO.	The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT on April 15, 22 and 27 were above the MDOs (0.0043 to 0.017 µg/L and 0.0001 µg/L, respectively). The WWTP treatment performance for total mercury and methylmercury will continue to be evaluated through May 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open.
Report #112: Pending Data	Analytical results not reported.	Field records and analytical results for receiving environment samples collected April 27 and 28 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 in the WWTP-E-OUT samples collected February 27, March 5, 10, 18, 24, and April 6, 15, 20, 22 and 27 met the MDO; however, hexavalent chromium was above the MDO on March 31 (0.00235 mg/L). Review of the WWTP treatment performance for hexavalent chromium determined the March 31 MDO exceedance as an isolated event, given the WWTP-E-OUT samples collected in April consistently achieved MDO. This item is closed.
Report #108: Pending Data	Analytical results not reported.	Previously pending dioxins and furans results for receiving environment samples collected April 2 and 3 are included in Report #112. This item is closed.
Report #109: Pending Data	Analytical results not reported.	Previously pending dioxins and furans results for contact and treated water samples collected April 6 and 7 and for receiving environment samples collected April 8 and 9 are included in Report #112. Dioxins and furans results for receiving environment samples collected April 9 and 10 are pending and will be included in future weekly reports when available. This item remains open.
Report #110: Potential Project Influence	Total aluminum and fluoride at East Creek above WQGs and the baseline concentration ranges.	This item was first noted in Report #110. At the East Creek station (SW-04) on April 9, total aluminum and fluoride concentrations (0.621 and 0.294 mg/L) were 3.5 and 2.5 times greater than their WQGs, and 2.4 and 2.9 times greater than the corresponding pre-construction baseline maxima (0.264 and <0.1 mg/L), respectively. On April 16 and 22, the fluoride concentrations at SW-04 (0.228 and 0.287 mg/L, respectively) were 1.9 and 2.4 times greater than the WQG and 2.3 and 2.9 times greater, respectively, than the pre-construction baseline maxima (<0.1 mg/L). There were no LNG facility construction activities in the vicinity of the SW-04 monitoring station on April 9, April 16 nor April 22. Additional investigation suggests that the source of total aluminum and fluoride in East Creek on these dates likely originated from upstream of the LNG facility construction area, and not from the Woodfibre LNG facility construction project. This item is closed.
Report #110: Pending Data	Analytical results not reported.	Previously pending field records and analytical results for receiving environment samples collected April 15 and 16 as well as total mercury and methylmercury results for non-contact water diversion ditch samples collected April 15, for receiving environment samples collected April 15 and for contact and treated water samples collected April 15 are included in Report #112. Total mercury and methylmercury results for non-contact water diversion ditch samples collected April 13 and dioxins and furans results for receiving environment samples collected April 15 and 16 are pending and will be included in future weekly reports when available. This item remains open.
Report #111: Potential Project Influence	Total aluminum at non-contact water diversion ditch outlet station OUT-02 above the WQG and the baseline concentration ranges.	At the non-contact water diversion ditch outlet station OUT-02 on April 13, the total aluminum concentration (0.550 mg/L) was 3.2 times greater than the WQG and 1.3 times greater than the corresponding pre-construction baseline maxima (0.433 mg/L). Potential influences to water quality at the non-contact water diversion ditch outlet station OUT-02 are being reviewed. This item remains open.
Report #111: WWTP Performance Evaluation	Total copper and total zinc above the MDO.	This item was first noted in Report #111. The total copper and total zinc concentrations were 0.00763 and 0.0537 mg/L, respectively, in the sample collected at WWTP-E-OUT on April 15 and were above the MDOs (0.0043 and 0.0133 mg/L, respectively). Total copper and total zinc concentrations met MDOs in the WWTP-E-OUT samples collected April 20, 22 and 27. Review of the WWTP treatment performance for total copper and total zinc determined this is an isolated event. This item is closed.
Report #111: Pending Data	Analytical results not reported.	Field records and analytical results for receiving environment samples collected April 21 and 22 as well as total mercury and methylmercury results for non-contact water diversion ditch, contact and treated water samples collected April 19, 20 and 22 are included in Report #112. Total mercury, methylmercury, dioxins and furans results for receiving environment samples collected April 21 and 22 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

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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:	May 08, 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 (May 2, 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

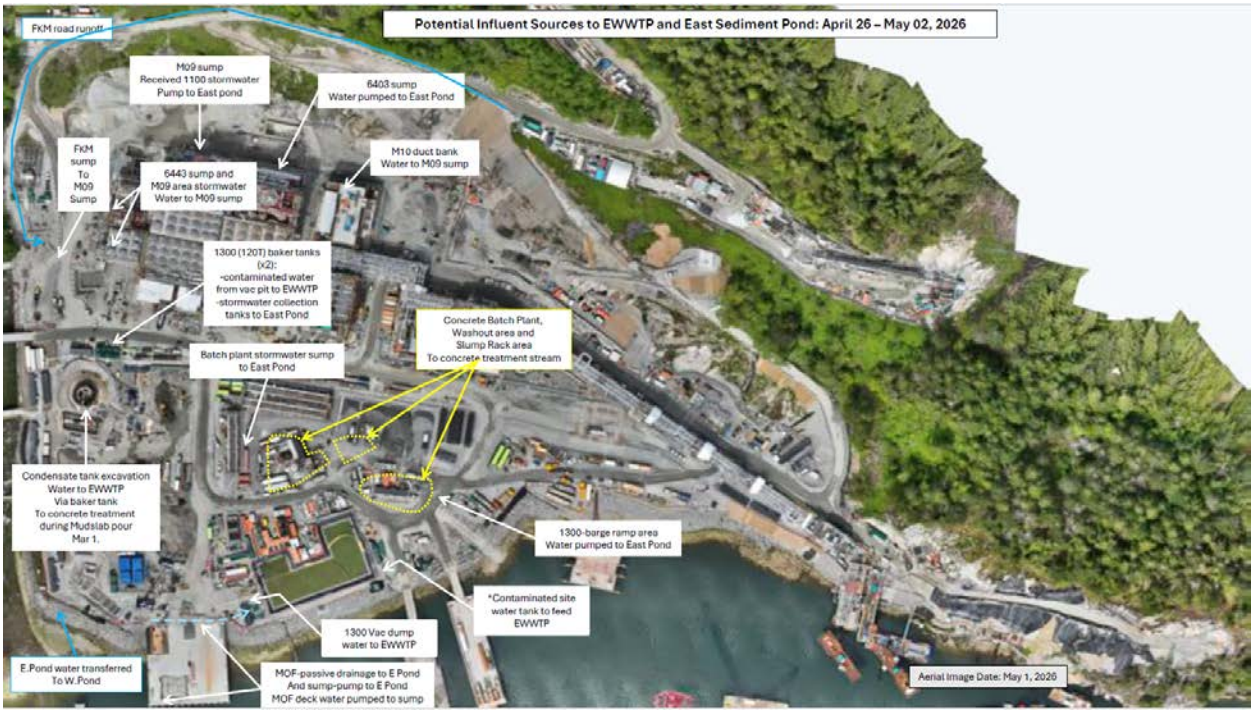

Figure 2: East Catchment contact water management facilities (April 26 – May 2).

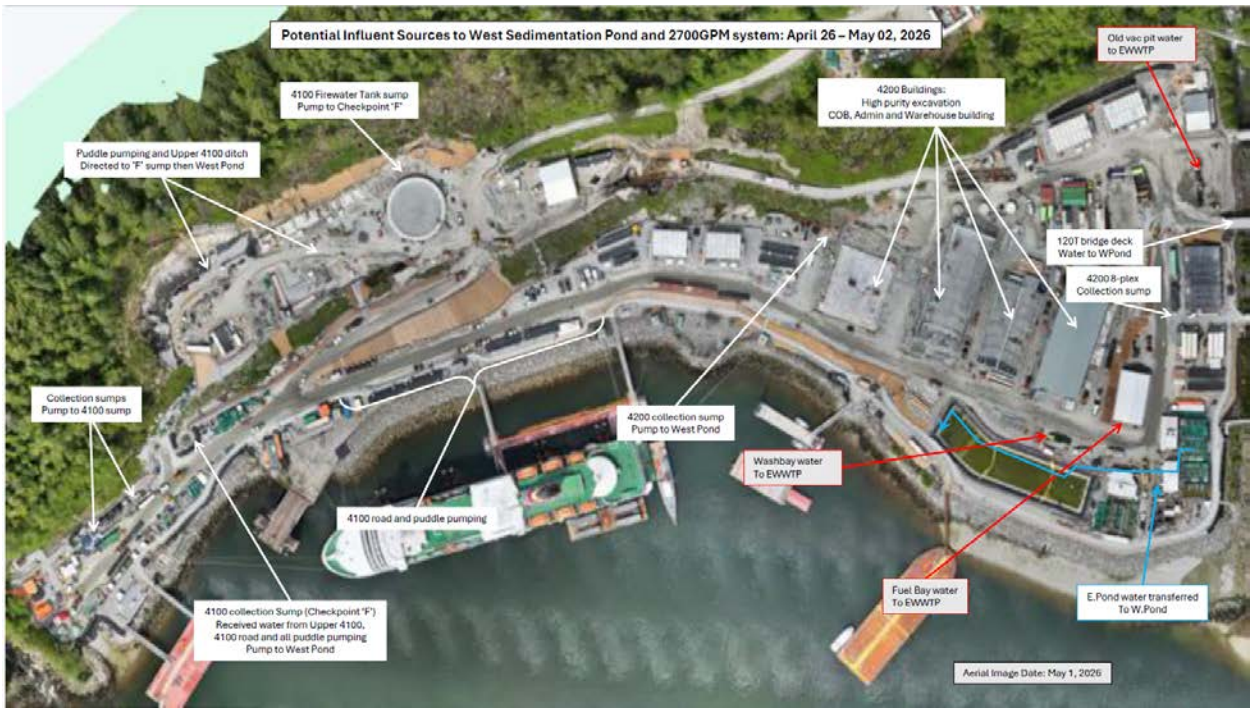

Figure 3: West Catchment contact water management facilities (April 26 – May 2).

Figure 4: Aerial view of the East Sedimentation Pond (May 1, 2026). The East WWTP is located on the left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (May 1, 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 VA26B0146-002 2026-04-27 9:06	Station WWTP-E-OUT Effluent WWTP-E-OUT VA26B0146-003 2026-04-27 15:52
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.3	6.8
Specific Conductivity - Field	µS/cm	-	-	-	913	1039
Temperature - Field	°C	-	-	-	16.5	17.2
Salinity - Field	ppt	-	-	-	0.45	0.52
Turbidity - Field	NTU	-	-	-	1.83	1.99
TSS	mg/L	-	-	25 or 75 [5]	7.4	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	12.24	10.05
Total Hardness	mg/L	-	-	-	32.9	17.3
Dissolved Hardness	mg/L	-	-	-	31.6	16.5
Anions and Nutrients						
Sulphate	mg/L	-	-	-	231	232
Chloride	mg/L	-	-	-	6.05	6.2
Fluoride	mg/L	-	1.5	-	0.112	0.119
Ammonia (N-NH_3)	mg/L	0.87-14 [3]	5.8-92 [3]	-	0.0065	0.0936
Nitrite (N-NO_2)	mg/L	-	-	-	0.0244	0.0914
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.613	0.778
Total Organic Carbon (TOC)	mg/L	-	-	-	4.25	4.24
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.62	3.64
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.76	0.215
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00131	0.00131
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00266	0.00259
Barium, total (T-Ba)	mg/L	-	-	-	0.0126	0.00213
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.046	0.034
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000250	<0.0000350
Chromium, total (T-Cr)	mg/L	-	-	-	0.002	0.00136
Cobalt, total (T-Co)	mg/L	-	-	-	0.0002	0.00011
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00256	0.00324
Iron, total (T-Fe)	mg/L	-	-	-	0.372	0.084
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000302	0.000251
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0197	0.0113
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0519	0.0569
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00051	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000259	0.000249
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000011	0.000017
Uranium, total (T-U)	mg/L	-	-	-	0.00941	0.0107
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00327	0.00341
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0179	0.0077
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00125	0.00096
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200	<0.0000250
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00185	0.00231
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.026	0.016
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	0.00006
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00416	0.00646
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0843	0.0678
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00183	0.00292
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0029	0.004
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	-
Acridine	mg/L	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	-
Chrysene	mg/L	0.0001	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-
Fluorene	mg/L	0.012	-	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-	-
Naphthalene	mg/L	0.001	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-
Quinoline	mg/L	-	-	-	-	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-	-
Total Xylenes	mg/L	0.07	1.0	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-

Notes:
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 26 – May 2).
[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 VA26B0146-001 2026-04-27 8:56
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.8
Specific Conductivity - Field	µS/cm	-	-	-	853
Temperature - Field	°C	-	-	-	15.6
Salinity - Field	ppt	-	-	-	0.42
Turbidity - Field	NTU	-	-	-	17.49
TSS	mg/L	-	-	25 or 75 [5]	13.8
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.5
Total Hardness	mg/L	-	-	-	35
Dissolved Hardness	mg/L	-	-	-	31.8
Anions and Nutrients					
Sulphate	mg/L	-	-	-	214
Chloride	mg/L	-	-	-	5.76
Fluoride	mg/L	-	1.5	-	0.11
Ammonia ($N\text{-}NH_3$)	mg/L	2.2 [3]	15 [3]	-	0.0219
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	0.0288
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	0.555
Total Organic Carbon (TOC)	mg/L	-	-	-	5.42
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	4.08
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	1.16
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00125
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00312
Barium, total (T-Ba)	mg/L	-	-	-	0.0163
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.046
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000300
Chromium, total (T-Cr)	mg/L	-	-	-	0.00235
Cobalt, total (T-Co)	mg/L	-	-	-	0.00034
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00256
Iron, total (T-Fe)	mg/L	-	-	-	0.722
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000525
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0389
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0482
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000236
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000012
Uranium, total (T-U)	mg/L	-	-	-	0.009
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00364
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0324
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00127
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00174
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.018
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00553
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0845
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00213
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0033
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	-
Acridine	mg/L	-	-	-	-
Anthracene	mg/L	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-
Chrysene	mg/L	0.0001	-	-	-
Fluoranthene	mg/L	-	-	-	-
Fluorene	mg/L	0.012	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-
Naphthalene	mg/L	0.001	-	-	-
Phenanthrene	mg/L	-	-	-	-
Pyrene	mg/L	-	-	-	-
Quinoline	mg/L	-	-	-	-
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.59	6.0	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-
Styrene	mg/L	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-
Total Xylenes	mg/L	0.07	1.0	-	-
Chlorobenzene	mg/L	0.025	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-

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

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

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.0046 - 0.017 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA26A9123-001	2026-04-15	***0.000185***	***0.0400***
SP-E-IN	Influent	SP-E-IN	VA26A9699-001	2026-04-22	***0.000129***	***0.00753***
SP-E-IN	Influent	SP-E-IN	VA26B0146-001	2026-04-27	***0.000177***	***0.0120***
WWTP-E-IN	Influent	WWTP-E-IN	VA26A9123-002	2026-04-15	***0.000347***	***0.0518***
WWTP-E-IN	Influent	WWTP-E-IN	VA26A9699-002	2026-04-22	0.000089	0.00589
WWTP-E-IN	Influent	WWTP-E-IN	VA26B0146-002	2026-04-27	0.000095	0.0101
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A9123-003	2026-04-15	***0.000160***	***0.0118***
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A9699-003	2026-04-22	***0.000121***	***0.0205***
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26B0146-003	2026-04-27	***0.000280***	***0.0128***

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 Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA26A8065-001	2026-04-06	0.0607	2.53
WWTP-E-IN	Influent	WWTP-E-IN	VA26A8065-002	2026-04-06	0	1.89
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA26A8065-003	2026-04-06	0.00399	3.12

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

Table B-5:
East Catchment Field Measurements Collected During the Monitoring Period (April 26 – May 2).

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	2026-04-26 9:59	16.0	11.90	0.42	20.86	18.6	8.10	851	No
SP-E-IN	Influent	2026-04-27 8:56	15.6	11.50	0.42	17.49	16.0	7.80	853	No
SP-E-IN	Influent	2026-04-28 12:23	15.4	11.45	0.40	24.87	21.5	7.10	818	No
SP-E-IN	Influent	2026-04-29 14:48	22.0	11.85	0.44	15.16	14.3	8.30	887	No
SP-E-IN	Influent	2026-04-30 10:37	18.3	12.00	0.44	11.72	11.7	8.30	895	No
SP-E-IN	Influent	2026-05-01 15:08	20.1	11.56	0.43	18.80	17.0	8.80	873	No
SP-E-IN	Influent	2026-05-02 11:51	21.1	11.14	0.44	9.91	10.4	8.00	902	No
WWTP-E-IN	Influent	2026-04-27 9:06	16.5	12.24	0.45	1.83	4.4	8.30	913	No
WWTP-E-IN	Influent	2026-05-01 15:17	19.8	12.69	0.43	9.54	10.1	8.50	882	No
Effluent [5]										
WWTP-E-OUT	Effluent	2026-04-27 9:24	16.2	8.44	0.47	2.81	5.1	6.40	953	No
WWTP-E-OUT	Effluent	2026-04-27 15:52	17.2	10.05	0.52	1.99	4.5	6.80	1039	No
WWTP-E-OUT	Effluent	2026-05-01 15:14	17.9	***7.77***	0.28	5.38	7.0	6.80	582	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (April 26 – May 2). 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 26, 28, 29, 30 and May 2 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 26 – May 2), 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 26, 28, 29, 30 and May 2 as the East WWTP was not operational at the time of monitoring.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-6:
East Catchment Daily Discharge Volumes for the Monitoring Period (April 26 – May 2).

	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				
2026-04-26	0	0	0	0
2026-04-27	0	0	157	0
2026-04-28	0	0	0.4	0
2026-04-29	0	0	0	0
2026-04-30	0	0	0	0
2026-05-01	0	0	261	0
2026-05-02	0	0	62	0

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

Appendix C:
West Catchment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station 2700GPM-IN	Station W2700T1-OUT
					Influent	Effluent
					W2700-IN	W2700T1-OUT
					VA26B0246-002	VA26B0246-003
		Long Term	Short Term		2026-04-28 9:32	2026-04-28 10:06
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.0	8.0
Specific Conductivity - Field	µS/cm	-	-	-	436	439
Temperature - Field	°C	-	-	-	16.9	17.0
Salinity - Field	ppt	-	-	-	0.21	0.21
Turbidity - Field	NTU	-	-	-	8.7	3.46
TSS	mg/L	-	-	25 or 75 [5]	10.8	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.76	9.38
Total Hardness	mg/L	-	-	-	46.4	45.7
Dissolved Hardness	mg/L	-	-	-	46.8	40.5
Anions and Nutrients						
Sulphate	mg/L	-	-	-	113	112
Chloride	mg/L	-	-	-	3.55	3.53
Fluoride	mg/L	-	1.5	-	0.09	0.09
Ammonia (N-NH_3)	mg/L	1.4 [3]	9.4 [3]	-	<0.0050	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	-	0.016	0.0184
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.0209	0.0247
Total Organic Carbon (TOC)	mg/L	-	-	-	4.28	4.14
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.92	4.06
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	0.652	0.271
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00054	0.00057
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.0011	0.0009
Barium, total (T-Ba)	mg/L	-	-	-	0.00503	0.00276
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000175	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00014	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00501	0.0016
Iron, total (T-Fe)	mg/L	-	-	-	0.289	0.068
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00045	0.000167
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0227	0.0188
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0249	0.0259
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000122	0.000166
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000028	0.000022
Uranium, total (T-U)	mg/L	-	-	-	0.00475	0.00397
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00177	0.0013
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0053	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000150
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00111	0.00131
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.02	0.021
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000063	0.0001
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00749	0.0151
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.0574	0.0595
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00131	0.00112
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.0023	0.001
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	-
Acridine	mg/L	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-	-
Chrysene	mg/L	0.0001	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-
Fluorene	mg/L	0.012	-	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-	-
Naphthalene	mg/L	0.001	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-
Quinoline	mg/L	-	-	-	-	-
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.59	6.0	-	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	-
Styrene	mg/L	-	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-	-
Total Xylenes	mg/L	0.07	1.0	-	-	-
Chlorobenzene	mg/L	0.025	-	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment did not discharge during the monitoring period (April 26 – May 2).
[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 Influent SP-W-IN VA26B0246-001 2026-04-28 9:18
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.0
Specific Conductivity - Field	µS/cm	-	-	-	423
Temperature - Field	°C	-	-	-	16.1
Salinity - Field	ppt	-	-	-	0.2
Turbidity - Field	NTU	-	-	-	4.15
TSS	mg/L	-	-	25 or 75 [5]	3.4
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.68
Total Hardness	mg/L	-	-	-	46.6
Dissolved Hardness	mg/L	-	-	-	46.9
Anions and Nutrients					
Sulphate	mg/L	-	-	-	110
Chloride	mg/L	-	-	-	3.5
Fluoride	mg/L	-	1.5	-	0.092
Ammonia (N-NH_3)	mg/L	1.4 [3]	9.4 [3]	-	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	-	0.0164
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.0188
Total Organic Carbon (TOC)	mg/L	-	-	-	4.23
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.74
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	0.373
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00055
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00102
Barium, total (T-Ba)	mg/L	-	-	-	0.0036
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000150
Chromium, total (T-Cr)	mg/L	-	-	-	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00104
Iron, total (T-Fe)	mg/L	-	-	-	0.145
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000149
Manganese, total (T-Mn)	mg/L	0.1	-	-	0.0193
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0251
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000109
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000025
Uranium, total (T-U)	mg/L	-	-	-	0.00427
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00144
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.0009
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.023
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0122
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.06
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00116
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	-
Acridine	mg/L	-	-	-	-
Anthracene	mg/L	-	-	-	-
Benz(a)anthracene	mg/L	-	-	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	-
Chrysene	mg/L	0.0001	-	-	-
Fluoranthene	mg/L	-	-	-	-
Fluorene	mg/L	0.012	-	-	-
1-methylnaphthalene	mg/L	0.001	-	-	-
2-methylnaphthalene	mg/L	0.001	-	-	-
Naphthalene	mg/L	0.001	-	-	-
Phenanthrene	mg/L	-	-	-	-
Pyrene	mg/L	-	-	-	-
Quinoline	mg/L	-	-	-	-
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.59	6.0	-	-
Ethylbenzene	mg/L	0.07	1.0	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-
Styrene	mg/L	-	-	-	-
Toluene	mg/L	0.03	3.0	-	-
Total Xylenes	mg/L	0.07	1.0	-	-
Chlorobenzene	mg/L	0.025	-	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment did not discharge during the monitoring period (April 26 – May 2).
[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]	0.0029-0.0072 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A9404-001	2026-04-20	***0.000105***	***0.00307***
SP-W-IN	Influent	SP-W-IN	VA26B0246-001	2026-04-28	0.000039	0.00202
2700GPM-IN	Influent	W2700-IN	VA26A9404-002	2026-04-20	0.000049	0.00317
2700GPM-IN	Influent	W2700-IN	VA26B0246-002	2026-04-28	0.000047	0.00246
Effluent						
SP-W-OUT	Effluent	SP-W-OUT-Port	VA26A9404-005	2026-04-20	0.000032	0.00229
SP-W-OUT	Effluent	SP-W-OUT-Outfall	VA26A9404-007	2026-04-20	0.000034	0.00196
W2700T5-OUT	Effluent	W2700T5-OUT	VA26A9404-003	2026-04-20	0.000040	0.00227
W2700T6-OUT	Effluent	W2700T6-OUT	VA26A9404-004	2026-04-20	0.000035	0.00242
W2700T1-OUT	Effluent	W2700T1-OUT	VA26B0246-003	2026-04-28	0.000038	0.00121

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 Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-W-IN	Influent	SP-W-IN	VA26A8202-001	2026-04-07	0	2.71
2700GPM-IN	Influent	W2700-IN	VA26A8202-002	2026-04-07	0	2.36
Effluent						
SP-W-OUT	Effluent	SP-W-OUT-Outfall	VA26A8202-004	2026-04-07	0.00396	2.24
SP-W-OUT	Effluent	SP-W-OUT-Outfall-DUP	VA26A8202-005	2026-04-07	0.000853	2.55

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

Table C-5:
West Catchment Field Measurements Collected During the Monitoring Period (April 26 – May 2).

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	2026-04-26 11:38	17.7	12.67	0.17	24.07	21.0	9.20	354	No
SP-W-IN	Influent	2026-04-27 10:09	15.2	13.09	0.16	22.18	19.5	9.10	331	No
SP-W-IN	Influent	2026-04-28 9:18	16.1	9.68	0.20	4.15	6.1	8.00	423	No
SP-W-IN	Influent	2026-04-29 14:26	20.6	13.83	0.19	9.65	10.2	8.90	399	No
SP-W-IN	Influent	2026-04-30 11:54	19.1	13.76	0.19	6.67	8.0	9.10	388	No
SP-W-IN	Influent	2026-05-01 8:37	17.6	12.66	0.19	4.93	6.7	9.00	386	No
SP-W-IN	Influent	2026-05-02 12:59	22.5	12.39	0.17	6.84	8.1	9.20	348	No
2700GPM-IN	Influent	2026-04-27 16:02	20.4	10.84	0.23	8.98	9.7	9.30	486	No
2700GPM-IN	Influent	2026-04-28 9:32	16.9	9.76	0.21	8.70	9.5	8.00	436	No
2700GPM-IN	Influent	2026-05-02 14:53	21.3	10.44	0.21	5.97	7.5	9.10	444	No
Effluent [5]										
-	-	-	-	-	-	-	-	-	-	-

Notes:
West catchment influents for April 26 – May 2 were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
[5] As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent was not discharged to Howe Sound at the authorized discharge location (SP-W-OUT) during the monitoring period (April 26 – May 2); therefore, daily field parameters were not collected from station SP-W-OUT on April 26 – May 2.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-6:
West Catchment Daily Discharge Volumes for the Monitoring Period (April 26 – May 2).

	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					
2026-04-26	0	0	0	0	0
2026-04-27	0	659	0	0	0
2026-04-28	0	1,590	0	0	0
2026-04-29	0	424	0	0	0
2026-04-30	0	0	0	0	0
2026-05-01	0	0	0	0	0
2026-05-02	0	669	68	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:
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]	0.0061 - 0.018 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
OUT-01	Non-Contact Water Diversion Ditch Outlet	OUT-01	VA26A9121-001	2026-04-15	0.000021	0.00373
OUT-02	Non-Contact Water Diversion Ditch Outlet	OUT-02	VA26A9408-001	2026-04-19	0.000036	0.00218

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

Appendix E: Freshwater Receiving Environment Monitoring Results

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

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station SW-02 Mill Creek Lower Reach SW-02 VA26A9118-001 2026-04-15 12:43	Station SW-07 Upstream Mill Creek SW-07 VA26A9118-003 2026-04-15 10:15	Station SW-02 Mill Creek Lower Reach SW-02 VA26A9834-001 2026-04-21 12:28	Station SW-07 Upstream Mill Creek SW-07 VA26A9834-003 2026-04-21 9:20
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	6.5 - 9.0	-	6.6	7.2	8.0	7.4
Specific Conductivity - Field	µS/cm	-	-	8	14	14	8
Temperature - Field	°C	-	-	5	6.3	7	5.5
Salinity - Field	ppt	-	-	0	0.01	0.01	0
Turbidity - Field	NTU	-	-	1.24	0.94	1.61	0.65
TSS	mg/L	-	-	<3.0	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	11.94	12.19	12.53	12.3
Total Hardness	mg/L	-	-	3.7	3.27	2.64	2.41
Dissolved Hardness	mg/L	-	-	3.59	3.08	2.61	2.31
Anions and Nutrients							
Sulphate [2]	mg/L	128	-	1.75	1.54	0.99	0.95
Chloride	mg/L	120	600	<0.50	<0.50	<0.50	<0.50
Fluoride [2]	mg/L	0.12	0.400	<0.020	<0.020	<0.020	<0.020
Ammonia ($N\text{-}NH_3$) [2]	mg/L	0.502-15.3	6.02-26.1	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.0200	0.1	<0.0010	<0.0010	<0.0010	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0382	0.0372	0.0275	0.026
Total Organic Carbon (TOC)	mg/L	-	-	1.77	1.87	1.84	1.76
Total Inorganic Carbon (DOC)	mg/L	-	-	1.88	1.6	1.71	1.79
Total Metals							
Aluminum, total (T-Al) [2]	mg/L	0.0316-0.607	-	***0.0904***	***0.0868***	0.102	***0.101***
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	<0.00010	<0.00010	<0.00010
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010	<0.00010	<0.00010	<0.00010
Barium, total (T-Ba)	mg/L	1	-	0.00198	0.00184	0.00156	0.00175
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020	<0.000020	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010	<0.010	<0.010	<0.010
Cadmium, total (T-Cd) [2]	mg/L	0.0000364	0.000106	0.0000058	0.0000055	<0.0000050	<0.0000050
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000389-0.000778	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	0.3	1	0.013	0.011	0.016	0.016
Lead, total (T-Pb)	mg/L	-	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, total (T-Mn)	mg/L	-	-	0.00056	0.00047	0.00075	0.00053
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000373	0.000324	0.000277	0.000262
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050	<0.00050	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050	<0.000050	<0.000050	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010	<0.000010	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010	<0.000010	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000164	0.000169	0.000171	0.000171
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0025	-	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000018-0.000019	0.0000380	0.0000058	<0.0000050	<0.0000050	<0.0000050
Copper, dissolved (D-Cu) [2]	mg/L	0.000200-0.00131	0.000586-0.00295	***0.00033***	***0.00025***	0.00029	0.00022
Iron, dissolved (D-Fe)	mg/L	-	0.35	<0.010	<0.010	<0.010	<0.010
Lead, dissolved (D-Pb) [2]	mg/L	0.00137-0.00292	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.135-0.380	1.97	0.0007	0.00038	0.00057	0.00047
Nickel, dissolved (D-Ni) [2]	mg/L	0.000600-0.000800	0.00910-0.0123	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00549	0.00491	0.00344	0.00329
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00180-0.0120	0.00843-0.0175	0.0013	<0.0010	0.0011	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.0058	-	<0.000010	<0.000010	<0.000010	<0.000010
Acridine	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	0.000012	-	<0.000010	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	0.000018	-	<0.000010	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	0.00004	-	<0.000010	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.003	-	<0.000010	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	0.001	<0.000050	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	0.0003	-	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	0.00002	-	<0.000010	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	0.0034	-	<0.000050	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.04	-	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.09	-	<0.00050	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	10	3.4	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	mg/L	0.072	-	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.0005	-	<0.00040	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	0.03	-	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050

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

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

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station SW-01 Woodfibre Creek Lower Reach SW-01 VA26A9701-001	Station SW-04 East Creek Lower Reach SW-04 VA26A9701-002
		Long Term	Short Term	2026-04-22 9:57	2026-04-22 11:07
General Parameters					
pH - Field	pH units	6.5 - 9.0	-	***6.1***	7.3
Specific Conductivity - Field	µS/cm	-	-	6	148
Temperature - Field	°C	-	-	5.8	11.8
Salinity - Field	ppt	-	-	0	0.07
Turbidity - Field	NTU	-	-	1.54	5.02
TSS	mg/L	-	-	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.54	10.88
Total Hardness	mg/L	-	-	2.07	50.1
Dissolved Hardness	mg/L	-	-	2.08	50.6
Anions and Nutrients					
Sulphate [2]	mg/L	128-218	-	0.33	12.2
Chloride	mg/L	120	600	<0.50	10
Fluoride [2]	mg/L	0.12	0.400-1.06	<0.020	***0.287***
Ammonia ($N\text{-}NH_3$) [2]	mg/L	1.83-48.3	17.4-26.8	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.0200-0.100	0.06-0.3	<0.0010	0.0056
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0226	0.244
Total Organic Carbon (TOC)	mg/L	-	-	4.24	1.65
Total Inorganic Carbon (DOC)	mg/L	-	-	3.09	1.17
Total Metals					
Aluminum, total (T-Al) [2]	mg/L	0.0208-0.231	-	***0.173***	***0.102***
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	0.00034
Arsenic, total (T-As)	mg/L	0.005	-	<0.00010	0.00056
Barium, total (T-Ba)	mg/L	1	-	0.00151	0.00481
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010	0.01
Cadmium, total (T-Cd) [2]	mg/L	0.000036-0.000089	0.00011-0.0010	<0.0000050	<0.0000100
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000389-0.000778	-	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	0.3	1	0.042	0.033
Lead, total (T-Pb)	mg/L	-	-	0.000066	<0.000050
Manganese, total (T-Mn)	mg/L	-	-	0.0011	0.00608
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.00017	0.0261
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000576	0.000494
Vanadium, total (T-V)	mg/L	0.12	-	<0.00050	<0.00050
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0025	-	<0.00050	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000018-0.00013	0.000038-0.00029	<0.0000050	<0.0000100
Copper, dissolved (D-Cu) [2]	mg/L	0.000200-0.000702	0.000229-0.00137	***0.00022***	***0.00028***
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.028	<0.010
Lead, dissolved (D-Pb) [2]	mg/L	0.00192-0.00379	-	0.000053	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.145-0.490	1.97-3.63	0.00077	0.00545
Nickel, dissolved (D-Ni) [2]	mg/L	0.000600-0.00110	0.00960-0.0105	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00255	0.059
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00595-0.0158	0.00987-0.0458	0.0010	0.0011
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.0058	-	<0.000010	<0.000010
Acridine	mg/L	0.003	-	<0.000010	<0.000010
Anthracene	mg/L	0.000012	-	<0.000010	<0.000010
Benz(a)anthracene	mg/L	0.000018	-	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010
Fluoranthene	mg/L	0.00004	-	<0.000010	<0.000010
Fluorene	mg/L	0.003	-	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
Naphthalene	mg/L	0.001	0.001	<0.000050	<0.000050
Phenanthrene	mg/L	0.0003	-	<0.000020	<0.000020
Pyrene	mg/L	0.00002	-	<0.000010	<0.000010
Quinoline	mg/L	0.0034	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.04	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.09	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	10	3.4	<0.00050	<0.00050
Styrene	mg/L	0.072	-	<0.00050	<0.00050
Toluene	mg/L	0.0005	-	<0.00040	<0.00040
Total Xylenes	mg/L	0.03	-	<0.00050	<0.00050
Chlorobenzene	mg/L	-	-	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	-	-	<0.00050	<0.00050

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

Table E-3:
Freshwater Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.0044-0.0094 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA26A9118-001	2026-04-15	<0.000020	0.00120
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA26A9118-003	2026-04-15	<0.000020	0.00115
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	SW-01	VA26A9115-001	2026-04-16	<0.000020	0.00188
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)	SW-04	VA26A9115-002	2026-04-16	<0.000020	0.00088

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

Table E-4:
Freshwater Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA26A8319-001	2026-04-08	0	2.15
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA26A8319-003	2026-04-08	0.669	5.20

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

Appendix F:
Estuarine Water Receiving Environment Results

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

Parameter	Unit	Lowest Applicable Guideline [1]		Station SW-03 Mill Creek Estuary SW-03 VA26A9118-002 2026-04-15 14:21	Station SW-03 Mill Creek Estuary SW-03 VA26A9834-002 2026-04-21 12:12
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	7.0 - 8.7	-	7.3	7.8
Specific Conductivity - Field	µS/cm	-	-	1398	754
Temperature - Field	°C	-	-	5.8	8.1
Salinity - Field	ppt	-	-	0.7	0.4
Turbidity - Field	NTU	-	-	1.29	1.81
TSS	mg/L	-	-	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	-	12.68	12.28
Total Hardness	mg/L	-	-	154.00	64.30
Dissolved Hardness	mg/L	-	-	551.00	83.10
Anions and Nutrients					
Sulphate	mg/L	-	-	64.8	27.6
Chloride	mg/L	-	-	448	191
Fluoride	mg/L	-	1.5	<0.200	0.02
Ammonia (N-NH_3)	mg/L	29 [2]	191 [2]	<0.0050	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	<0.0100	<0.0010
Nitrate (N-NO_3)	mg/L	3.7	339	0.0521	0.0265
Total Organic Carbon (TOC)	mg/L	-	-	1.81	1.69
Total Inorganic Carbon (DOC)	mg/L	-	-	1.69	1.68
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	0.11	0.192
Antimony, total (T-Sb)	mg/L	-	0.27	<0.00010	<0.00010
Arsenic, total (T-As)	mg/L	0.0125	-	0.00012	0.00015
Barium, total (T-Ba)	mg/L	-	-	0.00256	0.00248
Beryllium, total (T-Be)	mg/L	0.1	-	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	0.115	0.045
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.0000058	0.0000084
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	0.002	0.003	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.031	0.131
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.000050	0.000123
Manganese, total (T-Mn)	mg/L	0.1	-	0.00194	0.00365
Molybdenum, total (T-Mo)	mg/L	-	-	0.000653	0.000449
Nickel, total (T-Ni)	mg/L	0.0083	-	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	<0.000050	0.000079
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	<0.000010	<0.000010
Uranium, total (T-U)	mg/L	-	-	0.000232	0.000227
Vanadium, total (T-V)	mg/L	0.005	-	<0.00050	0.00059
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00050	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.0000250	0.0000058
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00100	<0.00020
Iron, dissolved (D-Fe)	mg/L	-	-	<0.050	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.000250	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00163	0.0005
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00250	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.631	0.0995
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00250	<0.00050
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0050	<0.0010
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	-	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<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	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.07	-	<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	-	<0.00040	<0.00040
Total Xylenes	mg/L	0.07	-	<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:
Non-detect results are screened using the detection limit value.
Results in ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of estuarine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of estuarine and marine water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.

Table F-2:
Estuarine 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]	0.0057 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-03	Mill Creek Estuary	SW-03	VA26A9118-002	2026-04-15	<0.000020	0.00113

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

Table F-3:
Estuarine Water Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-03	Mill Creek Estuary	SW-03	VA26A8319-002	2026-04-08	0.000886	1.70

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

Appendix G: Marine Water Receiving Environment Monitoring Results

Table G-1:
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
				VA26A9111-001	VA26A9111-002	VA26A9111-003	VA26A9111-004	VA26A9111-005	VA26A9111-006
		Long Term	Short Term	2026-04-15 12:01	2026-04-15 12:00	2026-04-15 11:56	2026-04-15 12:42	2026-04-15 12:41	2026-04-15 12:38
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	***8.75***	8.54	8.16	***8.77***	8.52	7.95
Specific Conductivity - Field	µS/cm	-	-	7540	34578	40672	10252	35367	42884
Temperature - Field	℃	-	-	8	10.6	9.7	7.8	10.6	9.3
Salinity - Field	ppt	Narrative [2]	-	4.17	21.68	25.87	5.78	22.25	27.41
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	1.81	0.61	0.21	1.45	0.48	0.42
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	<2.0	<2.0	2.2	<2.0	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	14.02	14.58	11.94	15.3	14.45	11.2
Total Hardness	mg/L	-	-	533	4440	5380	402	4430	5350
Dissolved Hardness	mg/L	-	-	455	4330	5200	416	4260	5140
Anions and Nutrients									
Sulphate	mg/L	-	-	193	1680	1950	99	1490	1920
Chloride	mg/L	-	-	1590	12100	14100	1100	10800	14100
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	0.75-5 [3]	5-33 [3]	0.008	<0.0050	0.0066	0.0091	<0.0050	<0.0050
Nitrite (N-NO_2)	mg/L	-	-	<0.10	<0.10	<0.10	0.17	<0.10	0.1
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	-	-	2.03	1.81	1.89	2.34	1.76	1.68
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.75	1.33	1.3	2	1.47	1.28
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.151	0.0243	0.0098	0.153	0.0288	0.0095
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	0.00104	0.00125	<0.00040	0.00099	0.00128
Barium, total (T-Ba)	mg/L	-	-	0.0059	0.0089	0.0092	0.006	0.0091	0.009
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	-	0.44	***2.93***	***3.43***	0.37	***2.81***	***3.43***
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000057	0.000058	<0.000020	0.000055	0.000069
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000071	0.000058	<0.000050	0.000071	0.000058	0.000053
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00052	<0.00050	<0.00050	0.00054	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.13	0.026	0.013	0.145	0.033	0.013
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	0.00023	0.00021	0.00019	0.00014	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.00627	0.00311	0.00202	0.00662	0.00329	0.00182
Molybdenum, total (T-Mo)	mg/L	-	-	0.00128	0.00726	0.00838	0.00102	0.00718	0.00829
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	-	-	0.000388	0.00181	0.00215	0.000361	0.00178	0.00222
Vanadium, total (T-V)	mg/L	0.005	-	0.00058	0.001	0.00125	0.0006	0.00107	0.00117
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	0.000051	0.000057	<0.000020	0.000047	0.000067
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.046	<0.010	<0.010	0.045	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	0.00019	0.00014	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00631	0.00264	0.00191	0.00552	0.00293	0.00158
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.569	4.75	5.78	0.531	4.85	5.56
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.00093	0.00119	<0.00050	0.00097	0.00114
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0013	<0.0010	0.0011	0.0012	0.0012	<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	<0.000010	<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 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 April 16 (Table G-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 G-2:
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
				VA26A9100-001	VA26A9100-002	VA26A9100-003	VA26A9100-004	VA26A9100-005	VA26A9100-006
		Long Term	Short Term	2026-04-16 11:09	2026-04-16 11:10	2026-04-16 11:11	2026-04-16 12:00	2026-04-16 12:01	2026-04-16 12:05
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	8.47	8.37	8.27	8.47	8.48	7.52
Specific Conductivity - Field	µS/cm	-	-	12379	35275	40190	13784	36511	45751
Temperature - Field	℃	-	-	7.8	9.9	9.9	8	10.3	9.0
Salinity - Field	ppt	Narrative [2]	-	7.08	22.08	25.55	7.95	23.01	29.42
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	0.99	0.25	0.32	1.72	0.74	0.89
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	11.94	11.86	12.76	13.08	12.84	***7.30***
Total Hardness	mg/L	-	-	1230	1290	5290	1330	2740	6180
Dissolved Hardness	mg/L	-	-	1240	1700	5250	1280	4630	5160
Anions and Nutrients									
Sulphate	mg/L	-	-	459	490	1960	506	1060	2310
Chloride	mg/L	-	-	3510	3770	14000	3880	7730	16400
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	0.81-13 [3]	5.4-85 [3]	0.0074	0.0069	0.0051	0.0067	0.0056	0.007
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	-	-	1.75	1.73	1.59	1.7	1.79	1.2
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.63	1.53	1.48	1.61	1.34	1.3
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.093	0.091	0.0132	0.089	0.0881	0.0172
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	<0.00040	0.00128	<0.00040	0.00075	0.00164
Barium, total (T-Ba)	mg/L	-	-	0.0073	0.0069	0.0093	0.0074	0.008	0.0097
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	-	0.98	1.03	***3.23***	0.99	***1.86***	***3.73***
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.000023	0.000023	0.000058	<0.000020	0.000031	0.000093
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000078	0.00006	0.000055	0.000071	0.000077	0.00007
Copper, total (T-Cu)	mg/L	0.002	0.003	<0.00050	<0.00050	0.00051	<0.00050	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.119	0.104	0.018	0.115	0.082	0.025
Lead, total (T-Pb)	mg/L	0.002	0.14	0.00028	<0.00010	<0.00010	0.00019	<0.00010	0.00013
Manganese, total (T-Mn)	mg/L	0.1	-	0.00713	0.00655	0.003	0.00705	0.00558	0.00273
Molybdenum, total (T-Mo)	mg/L	-	-	0.00247	0.00253	0.0083	0.00271	0.00501	0.00974
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	-	-	0.000631	0.000653	0.00216	0.000696	0.00127	0.0024
Vanadium, total (T-V)	mg/L	0.005	-	0.00069	0.00063	0.0012	0.00067	0.00089	0.00149
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	<0.000020	0.000057	<0.000020	0.000046	0.00006
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.026	0.022	<0.010	0.023	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	0.00011	<0.00010	<0.00010	0.00013	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00561	0.0052	0.0023	0.00578	0.0027	0.00188
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	1.46	1.97	5.37	1.47	4.89	5.46
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.00054	0.00113	<0.00050	0.00101	0.00117
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0010	<0.0010	<0.0010	<0.0010	<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	0.000019	0.000013	<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	<0.000067	<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 April 16 (Table G-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 G-3:
Summary of Marine Water Quality Results Received at the Time of Reporting

Parameter	Unit	Lowest Applicable Guideline [1]		Reference Station WQR2	Reference Station WQR2	Reference Station WQR2	Reference Station WQR1	Reference Station WQR1	Reference Station WQR1
				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
				WQR2-0.5	WQR2-2m	WQR2-SF	WQR1-0.5	WQR1-2m	WQR1-SF
				VA26A9111-007	VA26A9111-008	VA26A9111-009	VA26A9100-007	VA26A9100-008	VA26A9100-009
		Long Term	Short Term	2026-04-15 11:02	2026-04-15 11:02	2026-04-15 10:57	2026-04-16 9:01	2026-04-16 9:01	2026-04-16 9:04
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	8.61	8.58	8.17	8.44	8.48	7.51
Specific Conductivity - Field	µS/cm	-	-	8805	30228	41061	12052	27146	45345
Temperature - Field	℃	-	-	7.6	10.5	9.6	7.3	9.2	8.9
Salinity - Field	ppt	Narrative [2]	-	4.91	18.71	26.14	6.87	16.74	29.12
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	2.43	0.9	0.25	1.36	1.21	0.47
TSS	mg/L	Narrative [2]	Narrative [2]	<2.0	2.1	<2.0	<2.0	<2.0	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	13.12	14.16	12.95	11.71	11.56	***6.81***
Total Hardness	mg/L	-	-	667	1830	5580	1330	4800	6170
Dissolved Hardness	mg/L	-	-	458	1950	5280	1300	1460	5860
Anions and Nutrients									
Sulphate	mg/L	-	-	222	624	1980	514	1560	2290
Chloride	mg/L	-	-	1920	4780	14000	3950	11300	16400
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	0.75-13 [3]	5-85 [3]	0.0103	0.0067	0.0061	0.0083	<0.0050	<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	<0.50	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.92	2.1	1.79	1.78	1.62	1.18
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.74	1.62	1.29	1.64	1.65	1.06
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.149	0.192	0.0156	0.095	0.019	0.012
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	0.00055	0.0013	<0.00040	0.00112	0.00161
Barium, total (T-Ba)	mg/L	-	-	0.0079	0.0091	0.0095	0.008	0.0092	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	-	0.57	***1.35***	***3.57***	1.01	***3.03***	***3.86***
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000033	0.000071	<0.000020	0.000052	0.000087
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000104	0.00013	0.000056	0.000088	0.000064	0.000062
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00072	0.0009	<0.00050	0.00058	<0.00050	<0.00050
Iron, total (T-Fe)	mg/L	-	-	0.185	0.274	0.023	0.14	0.025	0.016
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	0.00011	0.00016	0.00011	<0.00010
Manganese, total (T-Mn)	mg/L	0.1	-	0.00903	0.00998	0.00196	0.00818	0.00302	0.00267
Molybdenum, total (T-Mo)	mg/L	-	-	0.00151	0.00332	0.00877	0.00265	0.00792	0.00966
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	-	-	0.000419	0.000834	0.00227	0.000693	0.00187	0.00241
Vanadium, total (T-V)	mg/L	0.005	-	0.00077	0.00111	0.00129	0.00076	0.00116	0.00147
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	0.000023	0.000063	0.000021	<0.000020	0.000076
Copper, dissolved (D-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.054	0.027	<0.010	0.031	0.032	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	0.00013	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00718	0.00522	0.00136	0.00666	0.0065	0.00095
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.591	2.27	5.56	1.53	1.72	6.11
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.0006	0.00115	0.0005	0.00052	0.00133
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0015	<0.0010	0.0014	<0.0010	<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	<0.000010	<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 G-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]	0.016 [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	VA26A9100-001	2026-04-16	<0.000020	<0.0050
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA26A9100-002	2026-04-16	<0.000020	<0.0050
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA26A9100-003	2026-04-16	<0.000020	<0.0050
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA26A9100-004	2026-04-16	<0.000020	<0.0050
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA26A9100-005	2026-04-16	<0.000020	<0.0050
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA26A9100-006	2026-04-16	<0.000020	<0.0050
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26A9111-001	2026-04-15	<0.000020	<0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26A9111-002	2026-04-15	<0.000020	<0.0050
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26A9111-003	2026-04-15	<0.000020	<0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26A9111-004	2026-04-15	<0.000020	<0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26A9111-005	2026-04-15	<0.000020	<0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26A9111-006	2026-04-15	<0.000020	<0.0050
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA26A9100-007	2026-04-16	<0.000020	<0.0050
WQR1	2 m Below Surface	WQR1-2m	VA26A9100-008	2026-04-16	<0.000020	<0.0050
WQR1	2 m Above Seafloor	WQR1-SF	VA26A9100-009	2026-04-16	0.000021	<0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26A9111-007	2026-04-15	<0.000020	<0.0050
WQR2	2 m Below Surface	WQR2-2m	VA26A9111-008	2026-04-15	<0.000020	<0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA26A9111-009	2026-04-15	<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.

Table G-5:
Marine Water Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter					**Lower Bound PCDD/F TEQ**	**Upper Bound PCDD/F TEQ**
Unit					**pg/L**	**pg/L**
Station	**Position in Water Column**	**Sample ID**	**Lab ID**	**Sampling Date**		
Station IDZ-E1						
IDZ-E1	0.5 m Below Surface	IDZ-E1-0.5	VA26A7953-001	2026-04-02	0	2.66
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA26A7953-002	2026-04-02	0	2.85
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA26A7953-003	2026-04-02	0	2.65
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF-DUP	VA26A7953-004	2026-04-02	0	2.33
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA26A7953-006	2026-04-02	0	2.46
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA26A7953-007	2026-04-02	0	2.71
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA26A7953-008	2026-04-02	0	2.17
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26A7987-004	2026-04-03	0	1.76
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26A7987-005	2026-04-03	0.0332	1.96
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26A7987-006	2026-04-03	0	1.87
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA26A8437-001	2026-04-09	0.0913	3.06
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA26A8437-002	2026-04-09	0	2.22
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA26A8437-003	2026-04-09	0.0217	1.66
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26A7987-007	2026-04-03	0	1.20
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26A7987-008	2026-04-03	0	1.51
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26A7987-009	2026-04-03	0	1.96
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA26A8437-004	2026-04-09	0.000491	2.56
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA26A8437-005	2026-04-09	0	3.41
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA26A8437-006	2026-04-09	0	2.68
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA26A7953-009	2026-04-02	0	2.52
WQR1	2 m Below Surface	WQR1-2m	VA26A7953-010	2026-04-02	0	2.35
WQR1	2 m Above Seafloor	WQR1-SF	VA26A7953-011	2026-04-02	0.0117	3.93
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA26A7987-001	2026-04-03	0.00162	1.43
WQR2	2 m Below Surface	WQR2-2m	VA26A7987-002	2026-04-03	0.000247	1.4
WQR2	2 m Above Seafloor	WQR2-SF	VA26A7987-003	2026-04-03	0.000558	1.58
WQR2	0.5 m Below Surface	WQR2-0.5	VA26A8437-007	2026-04-09	0	1.91
WQR2	2 m Below Surface	WQR2-2m	VA26A8437-008	2026-04-09	0	3.55
WQR2	2 m Above Seafloor	WQR2-SF	VA26A8437-009	2026-04-09	0.00189	2.79

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