TECHNICAL MEMORANDUM

To:	**Ian McAllister, Ashleigh Crompton, Mike Champion, Mark Zan and Ryan Schucroft (Woodfibre LNG)**	**Date: 14 Nov 2025**
From:	**Holly Pelletier and Patrick Mueller (Lorax)**	**Project #: A633-9**
Subject:	**PE-111578 Weekly Discharge and Compliance Report #89 for November 2 - 8**	

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 #89) was prepared by Lorax and summarizes WDA monitoring conducted for the period of November 2 - 8. 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 #89 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

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

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

1. Current Conditions

1.1 Water Management Infrastructure

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

Non-contact water from the slopes above and outside the Woodfibre LNG construction area is intercepted by diversion ditches and conveyed to Howe Sound or Mill Creek. Diversion ditches for the west catchment convey water to Mill Creek at station OUT-06, or to Howe Sound at station OUT-02 (Appendix A, Figure 1). During heavy precipitation, non-contact water is also conveyed to Howe Sound via station OUT-01. East of Mill Creek, non-contact water is intercepted and diverted around the east catchment along pre-existing road ditches that flow to East Creek or Mill Creek. To facilitate the replacement of the East Creek discharge culvert at OUT-12 (station SW-04), the lower reach of East Creek was temporarily diverted to an adjacent culvert, OUT-11, on September 17, 2024. To facilitate the reconstruction of the culvert at station OUT-01, non-contact water at the inlet to the culvert at OUT-01 has been temporarily diverted by pumping to station OUT-02 starting on October 12, 2025.

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

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

baker tanks for intermediate storage and are then directed to the East WWTP for treatment, or the East and West Sedimentation Ponds prior to re-use or discharge.

Discharge from the East and West Sedimentation Ponds is controlled using pumps. Prior to water management upgrades that commenced during the week of June 22 - 28, 2025, water stored in the ponds was pumped to a TSS settling system for clarification and then discharged through the authorized outfall structures associated with each pond. Some of the TSS-clarified water was recirculated back to the ponds or was re-used for construction (*e.g.*, dust suppression), and this will continue with the revised configuration. 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.

A flocculant-based TSS settling system (2700GPM) at the West Sedimentation Pond is used to clarify all non-contaminated contact water prior to re-use at site or discharge at SP-W-OUT. Water collected in the East Sediment Pond is periodically transferred to the West Sedimentation Pond to allow treatment by the 2700GPM system. The fully built 2700GPM TSS settling system will have the installed capacity to clarify 14,700 m^3/day of contact water and will consist of six parallel treatment trains, each with an installed capacity of 2450 m^3/day. Only one train will be operated during dry conditions or when contact water flows are below approximately 2450 m^3/day, whereas at higher flows, additional trains will be activated as needed to match the influent volumes. Treatment trains 1, 2, 3 and 4 have been commissioned, and commissioning of treatment trains 5 and 6 is underway.

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

1.2 Weather and Water Management

Variable weather conditions were observed during the November 2 - 8 monitoring period, with precipitation recorded November 2 (2.2 mm), November 5 (51.0 mm), November 6 (44.2 mm) and November 7 (12.2 mm). The total precipitation amount during the monitoring period was 109.6 mm. The daily weather conditions are summarized in Table 1.

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

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2025-11-02	2.2	12.5	5.4	Overcast
2025-11-03	0	12.7	4.8	Overcast
2025-11-04	0	12.5	3.6	Sun and Cloud
2025-11-05	51.0	11.9	6.7	Heavy Rain
2025-11-06	44.2	13.1	8.4	Heavy Rain
2025-11-07	12.2	10.5	6.6	Rain
2025-11-08	0	10.9	5.7	Overcast

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

From November 2 - 8, the East Sedimentation Pond received water from the Area 1100 Sump, the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). There was no discharge to Howe Sound from station SP-E-OUT during the monitoring period. A total of 6,477 m^3 from the East Sedimentation Pond was transferred to the West Sedimentation Pond from November 2 - 8 (Appendix B, Table B-5).

Routine operation of the East WWTP continued during the monitoring period (November 2 - 8). Concrete contact water and water from the Wash Bay and Hydrovac Pit was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (November 2 - 8) except on November 4 as the East WWTP was not operated. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-5).

From November 2 - 8, the West Sedimentation Pond received water from the Area 4100 and Area 4200 Sumps, the East Sedimentation Pond as well as recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system each day during the monitoring period (November 2 - 8) and recirculated back to the pond or intermittently discharged to Howe Sound except on November 4 as the 2700GPM system was not operated. A total of 17,915 m^3 of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT on November 2 to 3 and November 5 to 8. A total of 17 m^3 of clarified effluent was reclaimed for construction use from November 2 - 8. Daily clarified effluent volumes from the TSS settling system that were recirculated to the West Sedimentation Pond or discharged to Howe Sound, and volumes of water reclaimed for construction use are provided in Appendix C (Table C-5).

2. Monitoring Summary

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

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

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02). Non-contact diversion ditch water at OUT-01 has been temporarily redirected to OUT-02 since October 12, 2025, to facilitate the reconstruction of the outfall at OUT-01. Station OUT-01 is not routinely monitored while the diversion is in place except during significant rainfall events, when non-contact water intermittently flows through the outfall (*e.g.*, October 26, 2025).
- Non-contact diversion ditch outlet monitoring station OUT-06.
- East Creek water has been temporarily diverted to OUT-11 since September 17, 2024, to facilitate the replacement of the OUT-12 culvert through which East Creek previously discharged. East Creek is monitored at the inlet to the temporary diversion (freshwater receiving environment station SW-04); therefore, OUT-11 is not currently monitored while the diversion is in place.
- 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. As of September 26, 2025, a manifold is being implemented that combines effluent from the individual trains into a single discharge line configured with a new SP-W-OUT sampling port. Prior to September 26, 2025, the SP-W-OUT monitoring station was not safe to access and the SP-W-OUT station was monitored at the outlet of the individual 2700GPM TSS settling trains.
- Howe Sound reference and IDZ monitoring stations (WQR1, WQR2, IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2).

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

A flocculant-based TSS settling system (2700GPM) is used at the West Sedimentation Pond as described in Section 1.1. Influent and effluent are monitored at stations 2700GPM-IN and 2700GPM-OUT, respectively. The 2700GPM-OUT station represents the combined discharge line from all six individual treatment trains when clarified effluent is directed to the West Sedimentation Pond and is approximately 10 m from the location of the SP-W-OUT station. At times when only one 2700GPM treatment train is operated, the 2700GPM-OUT sample has been 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. As previously discussed, since September 26, 2025, a manifold is being implemented that combines effluent from the individual trains into a single discharge line configured with a new SP-W-OUT sampling port.

Water quality was monitored at stations OUT-01, OUT-02, OUT-06, IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, WQR2, SP-E-IN, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, SP-W-OUT, 2700GPM-IN, W2700T5-OUT and W2700T6-OUT during the monitoring period (November 2 - 8). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (November 2 - 8) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.*, bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Daily field parameters and a weekly analytical sample were not collected at the east catchment effluent compliance station (SP-E-OUT) as there was no discharge to Howe Sound from the East Sedimentation Pond during the monitoring period (November 2 - 8). Daily field measurements were not collected at the west catchment compliance station (SP-W-OUT) on November 4 as there was no discharge to Howe Sound that day. Daily field measurements for West Sedimentation Pond influent (SP-W-IN) were not collected on November 2 as the station could not be accessed at the time of monitoring due to excavation activities.

Daily field parameters were not collected at the influent and effluent stations of the East WWTP (WWTP-E-IN and WWTP- E- OUT, respectively) on November 4 as it was not operational that day. 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 (November 2 - 8).

Table 2:
Summary of PE-111578 Monitoring Samples Collected November 2 - 8.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
November 2, 2025	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-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	OUT-01	Non-contact water diversion ditch outlet, collected during significant rainfall event where non-contact water flowed through the outfall while still being reconstructed	Field, Physical & General Parameters, Total and Dissolved Metals, and Methylmercury.	M, M_5
	OUT-02	Non-contact water diversion ditch outlet		
	OUT-06	Non-contact water diversion ditch outlet		
	IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
	IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
	IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
	IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
	IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
	WQR1-0.5	Reference site 1; 0.5 m below surface		
	WQR1-2m	Reference site 1; 2 m below surface		
	WQR1-SF	Reference site 1; 2 m above the seafloor		
November 3, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
November 4, 2025	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 at the influent meter box	Field Parameters.	P
November 5, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	D, M_2, W
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	P
	W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5	Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury.	P
	W2700T6-OUT	2700GPM TSS settling system at the outlet of Train 6		
November 6, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	WWTP-E-IN	East WWTP at the influent meter box	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	D, M, M_2, W
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	OUT-01	Non-contact water diversion ditch outlet, collected during significant rainfall event where non-contact water flowed through the outfall while still being reconstructed	Field, Physical & General Parameters, Total and Dissolved Metals, and Methylmercury.	M, M_5
	OUT-02	Non-contact water diversion ditch outlet		
	OUT-06	Non-contact water diversion ditch outlet		

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

Table 2 (continued): Summary of PE-111578 Monitoring Samples Collected November 2 - 8.

Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
November 7, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P
	IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans.	M, M_5
	IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
	IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
	IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
	IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
	IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
	WQR2-0.5	Reference site 2; 0.5 m below surface		
	WQR2-2m	Reference site 2; 2 m below surface		
	WQR2-SF	Reference site 2; 2 m above the seafloor		
November 8, 2025	SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	WWTP-E-IN	East WWTP at the influent meter box	Field Parameters.	D
	WWTP-E-OUT	East WWTP at the effluent meter box		
	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
	SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port	Field Parameters.	D
	2700GPM-IN	2700GPM TSS settling system at the influent meter box	Field Parameters.	P

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

3. Water Quality Results

3.1 Summary of Reported Results

Analytical results and associated field measurements included in this weekly report (Report #89) are listed below in Table 3, with additional field measurements presented in Table B-4 (Appendix B) and Table C-4 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- SP-W-OUT collected September 29 (acute toxicity);
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1 and WQR2 collected September 30 at 0.5 m below surface (chronic toxicity);
- IDZ-E1, IDZ-E2 and WQR1 collected October 9 (chronic toxicity);
- SP-W-IN, SP-W-OUT and 2700GPM-IN collected October 10 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected October 10 at 0.5 m below surface (chronic toxicity);
- COMB-WWTP-E-IN collected October 11 (total mercury and methylmercury);
- SW-01, SW-02, SW-03, SW-04, and SW-07 collected October 12 (field and all analytical parameters);
- IDZ-E1, IDZ-E2 and WQR1 collected October 14 (field and all analytical parameters);
- OUT-02 collected October 14 (total mercury and methylmercury);
- 2700GPM-IN and SP-W-OUT collected October 15 (dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected October 15 (field and all analytical parameters);
- SW-01, SW-02, SW-03, SW-04, and SW-07 collected October 17 (field and all analytical parameters);
- COMB-WWTP-E-IN collected October 17 (total mercury and methylmercury);
- 2700GPM-IN and SP-W-OUT collected October 20 (dioxins and furans);
- IDZ-E1, IDZ-E2 and WQR1 collected October 20 (total mercury, methylmercury, dioxins and furans);
- COMB-WWTP-E-IN collected October 22 (total mercury and methylmercury);
- IDZ-W1, IDZ-W2 and WQR2 collected October 24 (total mercury, methylmercury, dioxins and furans);

- SW-01, SW-02, SW-03, SW-04 and SW-07 collected October 25 (total mercury, methylmercury, dioxins and furans);
- OUT-01 collected October 26 (total mercury and methylmercury);
- IDZ-E1, IDZ-E2 and WQR1 collected October 26 (total mercury, methylmercury, dioxins and furans);
- 2700GPM-IN and SP-W-OUT collected October 27 (dioxins and furans);
- COMB-WWTP-E-IN collected October 30 (total mercury and methylmercury);
- SW-01, SW-02, SW-03, SW-04, and SW-07 collected October 30 (total mercury, methylmercury, dioxins and furans);
- IDZ-W1, IDZ-W2 and WQR2 collected November 1 (field and all analytical parameters);
- OUT-01, OUT-02 and OUT-06 collected November 2 (field and all analytical parameters);
- IDZ-E1, IDZ-E2 and WQR1 collected November 2 (field and all analytical parameters);
- SP-W-IN collected November 5 (total mercury and methylmercury);
- SP-W-OUT and 2700GPM-IN collected November 5 (total mercury, methylmercury, dioxins and furans);
- W2700T5-OUT and W2700T6-OUT collected November 5 (field and all analytical parameters);
- SP-E-IN, WWTP-E-IN and WWTP-E-OUT collected November 6 (total mercury, methylmercury, dioxins and furans);
- OUT-01, OUT-02 and OUT-06 collected November 6 (field and all analytical parameters);
- IDZ-W1, IDZ-W2 and WQR2 collected November 7 (field and all analytical parameters).

Table 3:
Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #89.

Sample	Description	Sampling Date	Parameters Reported
OUT-06	Non-contact water diversion ditch outlet	October 3, 2025	Methylmercury.
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	October 5, 2025	Methylmercury.
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)		
SW-03	Mill Creek Estuary		
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SW-07	Upstream Mill Creek (at the diversion inlet)		
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface	October 24, 2025	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface		
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface		
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface		
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor		
WQR2-0.5	Reference site 2; 0.5 m below surface		
WQR2-2m	Reference site 2; 2 m below surface		
WQR2-SF	Reference site 2; 2 m above the seafloor		
SW-01	Lower Reach of Woodfibre Creek (near the mouth)	October 25, 2025	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SW-02	Lower Reach of Mill Creek (upstream of the third bridge)		
SW-03	Mill Creek Estuary		
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SW-07	Upstream Mill Creek (at the diversion inlet)		
OUT-01	Non-contact water diversion ditch outlet	October 26, 2025	Field, Physical and General Parameters, Total and Dissolved Metals.
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, and PAHs.
IDZ-E1-2m	Howe Sound IDZ station E1; 2 m below surface		
IDZ-E1-SF	Howe Sound IDZ station E1; 2 m above the seafloor		
IDZ-E2-0.5	Howe Sound IDZ station E2; 0.5 m below surface		
IDZ-E2-2m	Howe Sound IDZ station E2; 2 m below surface		
IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor		
WQR1-0.5	Reference site 1; 0.5 m below surface		
WQR1-2m	Reference site 1; 2 m below surface		
WQR1-SF	Reference site 1; 2 m above the seafloor		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	October 30, 2025	Methylmercury.
WWTP-E-IN	East WWTP at the influent meter box		
WWTP-E-OUT	East WWTP at the effluent meter box		
COMB-WWTP-E-IN	Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank		Field and Physical Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
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-02	Lower Reach of Mill Creek (upstream of the third bridge)		
SW-03	Mill Creek Estuary		
SW-04	Lower Reach of East Creek (near the outlet to the outfall culvert)		
SW-07	Upstream Mill Creek (at the diversion inlet)		
W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5	October 31, 2025	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
W2700T5-OUT	2700GPM TSS settling system at the outlet of Train 5	November 1, 2025	Field and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, and Methylmercury.
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	November 5, 2025	Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium.
SP-W-OUT	West Sedimentation Pond clarified effluent discharge to Howe Sound, collected at the manifold that combines effluent from the individual 2700GPM trains into a single discharge line configured with a new SP-W-OUT sampling port		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
2700GPM-IN	2700GPM TSS settling system at the influent meter box		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	November 6, 2025	Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
WWTP-E-IN	East WWTP at the influent meter box		Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, VOCs, and PAHs.
WWTP-E-OUT	East WWTP at the effluent meter box		

3.2 Screening and Reporting Overview

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

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

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

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

calculated assuming a concentration equal to the detection limit for results reported as not detected. These two parameters span the range of possible TEQs if one or more of the PCDDs and PCDFs are reported as not detected.

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

A summary of reported and pending results is provided in Section 3.1. Results for effluents from East WWTP, 2700GPM TSS settling system, and East and West Sedimentation Ponds are discussed in Section 3.2 and Section 3.4. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 0. Sediment samples are collected annually at stations IDZ-E-SED and IDZ-W-SED and are discussed in Section 3.7 when they are reported. Sediment samples were last collected July 2025 and the analytical results were presented in Report #82.

3.3 East Catchment

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

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected November 2 - 8 as well as analytical samples collected October 30 (station COMB-WWTP-E-IN as discussed in Report #88) and November 6 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT). The East WWTP effluent sample (WWTP-E-OUT) collected November 6 met MDOs for field and analytical parameters. (Appendix B, Table B-1, Table B-3 and Table B-4).

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from the SP-E-OUT authorized discharge location from November 2 - 8 (Section 1.2; Table B-4 of Appendix B). Therefore, water quality samples and field measurements were not collected at this station during the monitoring period.

3.4 West Catchment

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

As discussed in Section 1.2, a total of 17,915 m^3 of clarified sedimentation pond effluent from the 2700GPM TSS Settling System was intermittently discharged to Howe Sound from SP-W-OUT each day during the monitoring period (November 2 - 8) except on November 4.

Field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected November 2 - 8 and analytical samples collected October 31 and November 1 (station W2700T5-OUT) and November 5 (stations SP-W-IN, SP-W-OUT and 2700GPM-IN) were available at the time of reporting. Field measurements collected November 2 - 8 and the November 5 effluent sample collected at SP-W-OUT met PE-111578 discharge limits and WQGs (Appendix C, Table C-2 and Table C-4).

Pilot test samples collected October 31 and November 1 from Train 5 of the 2700GPM TSS settling system (W2700T5-OUT) met PE-111578 discharge limits and WQGs (Appendix C, Table C-1) with the exception of total copper on October 31 (0.00644 mg/L). The clarified effluent from Train 5 was recirculated to the West Sedimentation Pond at the time of monitoring on October 31, and was not discharged to Howe Sound.

3.5 Non-Contact Water Diversion Ditch Outlets

Analytical results and field measurements were available at the time of reporting for the non-contact water diversion ditch outlet sample collected at station OUT-01 on October 26 (as discussed in Report #88). The analytical results, field parameters, and WQGs are summarized in Appendix D.

Parameter concentrations met WQGs except field pH, total aluminum and dissolved copper. Field pH (pH 6.2) was below the lower limit of the WQG (pH 6.5). Total aluminum (0.290 mg/L) and dissolved copper (0.00076 mg/L) were above the long-term WQGs (0.0358 and 0.00020 mg/L, respectively) at OUT-01 on October 26. Dissolved copper was also above the short-term WQG (0.00061 mg/L). The field pH, total aluminum and dissolved copper results are within the range of values observed during the pre-construction baseline monitoring of diversion ditch water quality. The field pH value and the total aluminum and dissolved copper concentrations measured at OUT-01 are considered to represent background conditions for non-contact diversion ditch water quality and are not attributed to project influence.

The methylmercury result for the non-contact water diversion ditch outlet sample collected at station OUT-06 on October 3 (as discussed in Report #84) was available at the time of reporting. The methylmercury concentration was 0.000023 µg/L in the sample collected at OUT-06 and was below the WQG. The corresponding total mercury result was also below the WQG. Results are tabulated in Appendix D, Table D-2.

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) as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on October 25 (as discussed in Report #87) and on October 30 (as discussed in Report #88). 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, total aluminum and dissolved copper in some samples (Appendix E, Table E-1 and Table E-2 and Appendix F, Table F-1). Field pH in the Mill Creek estuary (pH 6.5) and East Creek (pH 6.4) on October 25 and Woodfibre Creek (pH 6.3) on October 30 was below the lower range of the WQG (pH 6.5 and pH 7.0 for freshwater and estuarine water, respectively). Field pH at the Mill Creek background station (SW-07) was above the upper range of the WQG (pH 9.0 for freshwater) on October 25. Total aluminum was above the long-term WQG in the sample collected from Woodfibre Creek on October 25 and 30 (0.182 and 0.180 mg/L, respectively), from mid-stream in Mill Creek on October 30 (0.0979 mg/L) and East Creek on October 25 and 30 (0.181 and 0.153 mg/L, respectively). Dissolved copper was above the long-term WQG in the sample collected from Woodfibre Creek on October 25 and 30 (0.00027 and 0.00021 mg/L, respectively), from mid-stream in Mill Creek on October 30 (0.00032 mg/L) and East Creek on October 25 and 30 (0.00123 and 0.00081 mg/L, respectively).

The field pH values and the total aluminum and dissolved copper concentrations observed at downstream stations (SW-01, SW-02, SW-03, and SW-04) are within ranges observed in the pre-construction baseline monitoring program or background stations for the freshwater and estuarine water receiving environment. The field pH and total aluminum and dissolved copper concentrations measured in Woodfibre Creek, Mill Creek and East Creek are considered to represent background conditions and are not attributed to project influence.

Methylmercury results for the freshwater and estuarine water samples collected at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) as well as near the mouth of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) on October 5 (as discussed in Report #85) were available at the time of reporting. Methylmercury concentrations ranged from <0.000020 to 0.000051 µg/L in all samples and were below the WQG.

The corresponding total mercury results were also below the WQGs. Results are tabulated in Appendix E, Table E-3 (freshwater) and Appendix F, Table F-2 (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 October 24 (stations IDZ-W1, IDZ-W2 and WQR2, as discussed in Report #87) and on October 26 (stations IDZ-E1, IDZ-E2 and WQR1, as discussed in Report #88). The analytical results, field parameters, and WQGs are summarized in Appendix G.

Parameter concentrations met WQGs except field turbidity, dissolved oxygen, total boron and total copper in some samples (Appendix G; Tables G-1 through Table G-4). Field turbidity was above the short-term WQG at 0.5 m below the surface at IDZ-E1 on October 26. In all samples collected at 2 m above the seafloor on October 24 (stations IDZ-W1, IDZ-W2 and WQR2) and on October 26 (stations IDZ-E1, IDZ-E2 and WQR1) as well as at 0.5 and 2 m below the surface WQR2, dissolved oxygen ranged from 4.82 to 7.95 mg/L and was below the lower limit of the WQG (8 mg/L). Total boron was also above the WQG (1.2 mg/L) and ranged from 1.34 to 2.40 mg/L in samples collected at 2 m below the surface and at 2 m above the seafloor on October 24 (stations IDZ-W1, IDZ-W2 and WQR2) and on October 26 (stations IDZ-E1 and WQR1) as well as at 0.5 m below the surface at IDZ-W2 and WQR1 and at 2 m above the seafloor at IDZ-E2. Total copper was above the long-term WQG (0.002 mg/L) in samples collected at IDZ-E2 at 0.5 and 2 m below the surface (0.00292 mg/L).

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, total boron and total copper concentrations observed at the IDZ monitoring stations are within concentrations that have been observed in the pre-construction baseline monitoring program or within background ranges observed at marine reference stations.

Elevated field turbidity at the IDZ stations is attributed to heavy rainfall (45 and 37 mm on October 24 and 26, respectively) that likely increased turbid runoff from background sources into Howe Sound on those days.

3.8 Quality Control

This section presents the results of the quality control (QC) evaluation for the PE-111578 weekly report (**Error! Not a valid bookmark self-reference.**). The evaluation includes a review of field and lab QC, completeness of the weekly report (*e.g.*, pending data), completeness of the monitoring program, confirmation of recordkeeping, evaluation of compliance and review of water management activities. Items flagged for follow-up in Section 3 are also tracked in **Error! Not a valid bookmark self-reference.**. Any items flagged for follow-up are carried forward to future reports until they are closed.

Table 4:
Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (November 2 - 8, Report #89)		
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 has been temporarily diverted through the OUT- 11 outfall since September 17, 2024, to facilitate replacement of the East Creek outfall culvert (OUT-12). The culvert at OUT-01 is being replaced and diversion water flows to OUT-01 have been redirected to OUT-02. All monitoring stations have been established except at SP-E-IN-1, SP-E-IN-2, SP-W-IN-1 and SP-W-IN-2 where substitute stations are established in lieu of those listed in PE-111578 (refer to Section 2). This item remains open.
Report #89: Pending Data	Analytical results not reported.	Field parameters and analytical results for non-contact water diversion ditch outlet and receiving environment samples collected November 2, 6 and 7, field parameters and analytical results for treated water samples collected November 5, as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected November 5 and 6 are pending and will be included in future weekly reports when available. This item remains open.
Ongoing Items from Previous Weekly Reports		
Report #62: WWTP Performance Evaluation	Total copper above the MDO.	The treatment effectiveness for total copper has been inconsistent from January to October. Several modifications to the treatment process have been implemented in 2025 to improve T-Cu removal. The HSMT metal removal media was replaced on June 5. A modification to how the treatment reagents are added was implemented late July. BCER has been notified that additional filtration will be implemented to remove fine particles at the outlet of the treatment plant. High-frequency monitoring at multiple treatment stages is on-going to the evaluate the effectiveness of these changes. The total copper concentration in the WWTP-E-OUT sample collected October 17 (0.00474 mg/L) was above the MDO. Samples collected on September 27, October 4, 22 and 30 as well as November 6 met the MDO for copper. The WWTP treatment performance for total copper continues to be monitored. This item remains open.
Report #84: Pending Data	Analytical results not reported.	Acute toxicity results for West Sedimentation Pond effluent (SP-W-OUT) collected September 29 and chronic toxicity results for marine receiving environment samples collected September 30 are pending and will be included in future weekly reports when available. This item remains open.
Report #85: Pending Data	Analytical results not reported.	Total mercury and methylmercury results for the contact water sample collected October 11, chronic toxicity results for marine water receiving environment samples collected October 9 and 10, and dioxins and furans results for contact water and treated water samples collected October 10 are pending and will be included in future weekly reports when available. This item remains open.
Report #86: WWTP Performance Evaluation	Hexavalent chromium above the MDO.	The total hexavalent chromium concentration was 0.00176 mg/L in the sample collected at WWTP-E-OUT on October 17 and was above the MDO (0.0015 mg/L). The WWTP treatment performance for total hexavalent chromium continues to be monitored. This item remains open.
Report #86: Potential Project Influence	Dissolved copper above the WQG and baseline ranges.	Dissolved copper measured in the non-contact water diversion ditch outlet (OUT-01) on September 29 (0.00122 mg/L) was 6.1 times greater than the long-term WQG, 2.5 times greater than the short-term WQG and 1.3 times greater than the maximum concentration observed in the pre-construction baseline monitoring of diversion ditch water quality (0.00095 mg/L). Further monitoring is required to characterize water quality in the non-contact water diversion ditch station OUT-01 and evaluate if there is a potential for project influenced exceedances of WQGs. Non-contact diversion ditch water at OUT-01 has been temporarily redirected to OUT-02 since October 12, 2025, to facilitate the reconstruction of the outfall at OUT- 01; therefore, samples collected at OUT-02 represents a mix of non-contact water from OUT-01 and OUT-02 while the diversion is in place. Dissolved copper measured at OUT-02 on October 14 (0.00050 mg/L) and an additional sample collected at OUT-01 on October 26 (0.00076 mg/L) were within the range of values observed during the pre-construction baseline monitoring of diversion ditch water quality. The copper concentration observed in the September 29 sample (0.00122 mg/L) is within the background ranges for copper that have been observed in Mill and East Creek (maximum value = 0.0024 mg/L dissolved copper). The baseline dataset for diversion ditch water quality is comprised of few samples. Therefore, due to the limited number of baseline samples and in consideration of the Mill and East Creek background ranges for copper, it is speculated the result from September is representative of background conditions in non-contact water at OUT-01. This item is closed.
Report #86: Pending Data	Analytical results not reported.	Field parameters and analytical results for receiving environment samples collected October 12, 14, 15 and 17, total mercury and methylmercury results for non-contact water diversion ditch outlet and contact water samples collected October 14 and 17, respectively, and dioxins and furans results for contact water and treated water samples collected October 15 are pending and will be included in future weekly reports when available. This item remains open.
Report #87: Pending Data	Analytical results not reported.	Total mercury, methylmercury, dioxins and furans results for receiving environment, contact water and treated water samples collected October 20, 22, 24 and 25 are pending and will be included in future weekly reports when available. This item remains open.
Report #88: Pending Data	Analytical results not reported.	Field parameters and analytical results for receiving environment samples collected November 1, total mercury, methylmercury, dioxins and furans results for non-contact water diversion ditch outlet, contact and treated water samples and receiving environment samples collected October 26, 27, and 30 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.

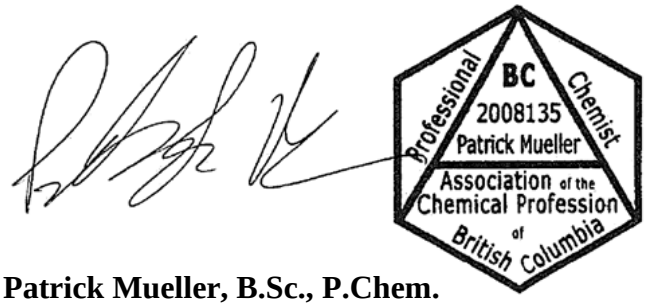
4. Closure

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



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

Appendix A:
Figures and Site Images

World Imagery: District of Squamish. Additional imagery provided by McDermott International captured November 3rd, 2025.

LEGEND

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

DATE SAVED:	Nov 14, 2025
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 (November 8, 2025)

PROJECT #: A633-9

FIGURE: 1

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

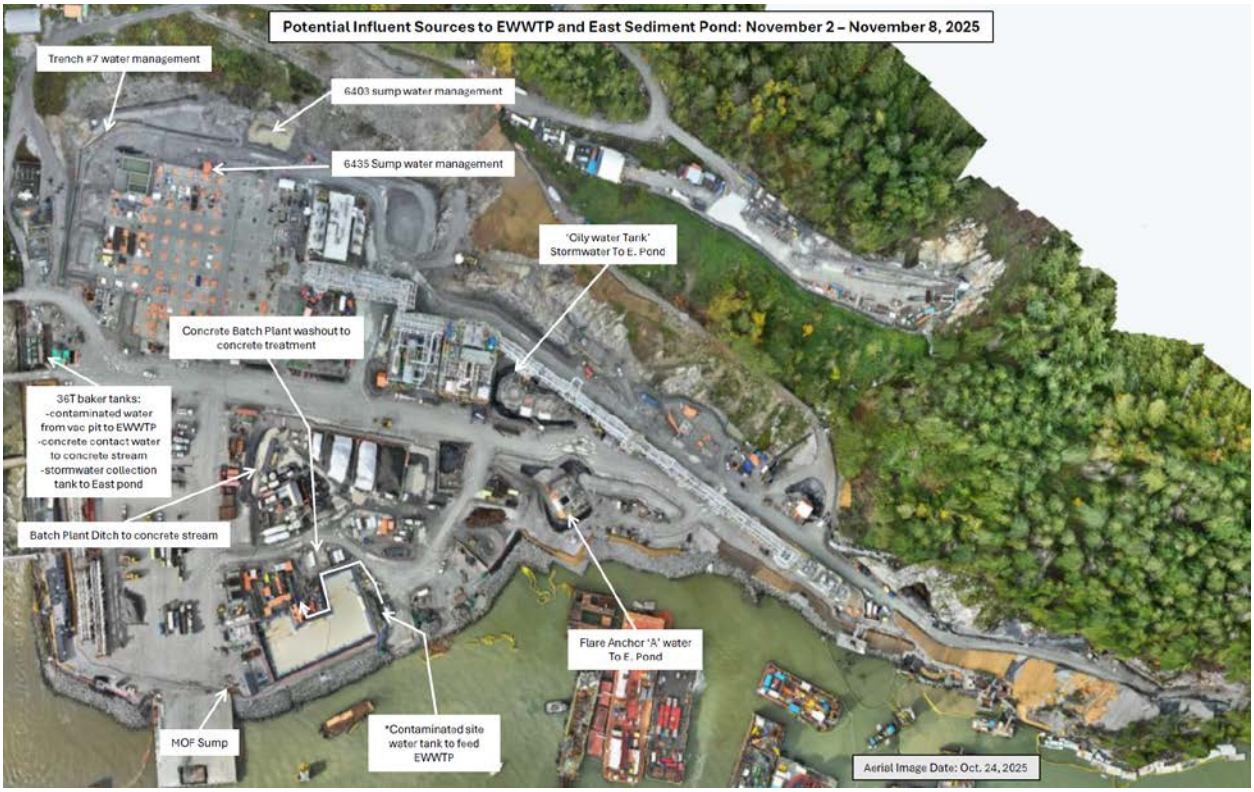


Figure 2: East Catchment contact water management facilities (November 2 - 8).

Figure 3: West Catchment contact water management facilities (November 2 - 8).

Figure 4: Aerial view of the East Sedimentation Pond (November 7, 2025). The East WWTP is located on the left side of the pond.

Figure 5: Aerial view of the West Sedimentation Pond (November 7, 2025).

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 COMB-WWTP-E-IN Influent COMB-WWTP-E-IN VA25C9108-003 2025-10-30 10:37	Station WWTP-E-IN Influent WWTP-E-IN VA25C9827-002 2025-11-06 10:14	Station WWTP-E-OUT Effluent WWTP-E-OUT VA25C9827-003 2025-11-06 16:11
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.5	7.2	6.6
Specific Conductivity - Field	µS/cm	-	-	-	1130	397	1814
Temperature - Field	℃	-	-	-	9.6	10.8	10.1
Salinity - Field	ppt	-	-	-	0.56	0.19	0.93
Turbidity - Field	NTU	-	-	-	24.4	282.93	1.17
TSS	mg/L	-	-	25 or 75 [6]	10.1	252	<3.0
Dissolved Oxygen - Field	mg/L	≥8	-	-	10.79	11.07	11.34
Total Hardness	mg/L	-	-	-	94	109	60.5
Dissolved Hardness	mg/L	-	-	-	91.5	63.7	60.6
Anions and Nutrients							
Sulphate	mg/L	-	-	-	-	116	801
Chloride	mg/L	-	-	-	-	4.11	<5.00
Fluoride	mg/L	-	1.5	-	-	0.078	<0.200
Ammonia (N-NH_3)	mg/L	12-20 [3]	77.7-131 [3]	-	-	0.0096	0.0171
Nitrite (N-NO_2)	mg/L	-	-	-	-	0.0061	<0.0100
Nitrate (N-NO_3)	mg/L	3.7	339	-	-	0.282	0.659
Total Organic Carbon (TOC)	mg/L	-	-	-	-	11.8	1.1
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	1.75	1.16
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	0.79	18.7	0.441
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00109	0.00096	0.00098
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00191	0.00351	0.00061
Barium, total (T-Ba)	mg/L	-	-	-	0.0234	0.153	0.00751
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020	0.000251	<0.000040
Boron, total (T-B)	mg/L	1.2	-	-	0.057	0.034	0.059
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000250	***0.000154***	0.0000246
Chromium, total (T-Cr)	mg/L	-	-	-	0.0022	0.0075	<0.00100
Cobalt, total (T-Co)	mg/L	-	-	-	0.00029	0.00521	<0.00020
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00403	0.0185	0.00314
Iron, total (T-Fe)	mg/L	-	-	-	0.982	15.6	0.025
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.000705	0.0151	0.000171
Manganese, total (T-Mn)	mg/L	-	-	-	0.028	0.533	0.00309
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.024	0.018	0.021
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00123	0.00494	<0.00100
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000224	0.000096	0.000286
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010	0.000049	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	-	<0.000010	0.000099	<0.000020
Uranium, total (T-U)	mg/L	-	-	-	0.0143	0.00881	0.00301
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00367	0.0263	0.00247
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0063	0.0727	0.0132
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.00065	0.00052	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000150	<0.0000150
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00158	0.00116	0.00164
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.029	<0.010	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0147	0.0163	0.00411
Nickel, dissolved (D-Ni)	mg/L	-	-	-	0.00072	<0.00050	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.182	0.0957	0.201
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00171	0.00138	0.00235
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	<0.0010	0.0062
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	-	0.00001	<0.000010
Acridine	mg/L	-	-	-	-	<0.000010	<0.000010
Anthracene	mg/L	-	-	-	-	0.000014	<0.000010
Benz(a)anthracene	mg/L	-	-	-	-	0.000054	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	-	***0.0000594***	<0.0000050
Chrysene	mg/L	0.0001	-	-	-	0.00005	<0.000010
Fluoranthene	mg/L	-	-	-	-	0.000085	<0.000010
Fluorene	mg/L	0.012	-	-	-	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	-	0.000017	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	-	0.000026	<0.000010
Naphthalene	mg/L	0.001	-	-	-	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	-	-	0.000047	<0.000020
Pyrene	mg/L	-	-	-	-	0.000088	<0.000010
Quinoline	mg/L	-	-	-	-	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.11	-	-	-	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	-	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	<0.00050	<0.00050
Styrene	mg/L	-	-	-	-	<0.00050	<0.00050
Toluene	mg/L	0.215	-	-	-	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	-	-	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	-	-	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	<0.00050	<0.00050

Notes:
East catchment influents and East WWTP effluent were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (November 2 – 8).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

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

Parameter	Unit	Lowest Applicable Guideline [1]		PE-111578 Discharge Limit	Station SP-E-IN Influent SP-E-IN VA25C9827-001 2025-11-06 10:48
		Long Term	Short Term		
General Parameters					
pH - Field	pH units	- [2]	-	5.5 - 9.0	6.8
Specific Conductivity - Field	µS/cm	-	-	-	809
Temperature - Field	°C	-	-	-	10.5
Salinity - Field	ppt	-	-	-	0.4
Turbidity - Field	NTU	-	-	-	28.31
TSS	mg/L	-	-	25 or 75 [6]	22.9
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.09
Total Hardness	mg/L	-	-	-	85.1
Dissolved Hardness	mg/L	-	-	-	75
Anions and Nutrients					
Sulphate	mg/L	-	-	-	294
Chloride	mg/L	-	-	-	4.91
Fluoride	mg/L	-	1.5	-	0.124
Ammonia ($N\text{-}NH_3$)	mg/L	20 [3]	131 [3]	-	0.0092
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	-	<0.0050
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	-	0.35
Total Organic Carbon (TOC)	mg/L	-	-	-	3.01
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.46
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	-	1.84
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00101
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00188
Barium, total (T-Ba)	mg/L	-	-	-	0.0245
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.00004
Boron, total (T-B)	mg/L	1.2	-	-	0.059
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000406
Chromium, total (T-Cr)	mg/L	-	-	-	0.00275
Cobalt, total (T-Co)	mg/L	-	-	-	0.00062
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00447
Iron, total (T-Fe)	mg/L	-	-	-	1.55
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.0015
Manganese, total (T-Mn)	mg/L	-	-	-	0.057
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0227
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00108
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000191
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	-	-	-	0.0122
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.00466
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0123
Hexavalent Chromium, total	mg/L	0.0015	-	-	0.0007
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000200
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00184
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.031
Lead, dissolved (D-Pb)	mg/L	-	-	-	0.000051
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0129
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.159
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00212
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.003
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	0.006	-	-	<0.000010
Acridine	mg/L	-	-	-	<0.000010
Anthracene	mg/L	-	-	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	<0.000010
Fluorene	mg/L	0.012	-	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	0.00001
Naphthalene	mg/L	0.001	-	-	<0.000050
Phenanthrene	mg/L	-	-	-	<0.000020
Pyrene	mg/L	-	-	-	<0.000013
Quinoline	mg/L	-	-	-	<0.000050
Volatile Organic Compounds (VOCs)					
Benzene	mg/L	0.11	-	-	<0.00050
Ethylbenzene	mg/L	0.25	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050
Styrene	mg/L	-	-	-	<0.00050
Toluene	mg/L	0.215	-	-	<0.00040
Total Xylenes	mg/L	-	-	-	<0.00050
Chlorobenzene	mg/L	0.025	-	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050

Notes:
East catchment influents and effluents were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceeded the PE-111578 East Sedimentation Pond Discharge Limit.
The East Catchment did not discharge during the monitoring period (November 2 – 8).
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

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

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.0063-0.016 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Influent						
SP-E-IN	Influent	SP-E-IN	VA25C9088-001	2025-10-30	0.000039	0.00930
WWTP-E-IN	Influent	WWTP-E-IN	VA25C9088-002	2025-10-30	0.000059	0.00803
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA25C9088-003	2025-10-30	0.000028	0.00177

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

Table B-4:
East Catchment Field Measurements Collected During the Monitoring Period (November 2 - 8).

Parameter			**Temp.**	**Dissolved Oxygen (DO)**	**Salinity**	**Turbidity**	**Estimated TSS [3]**	**pH**	**Specific Conductivity**	**Visibility of Sheen**
Unit			**°C**	**mg/L**	**ppt**	**NTU**	**mg/L**	**s.u.**	**µS/cm**	
PE-111578 Discharge Limit			-	-	-	-	25 or 75 [6]	5.5 - 9.0	-	-
Lowest Applicable Guideline [1]			-	≥8	-	-	- [2]	- [2]	-	-
Station ID	**Water Type**	**Date**								
Influent [4]										
SP-E-IN	Influent	2025-11-02 13:51	11.3	10.59	0.34	25.89	22.3	6.8	689	No
SP-E-IN	Influent	2025-11-03 11:02	11.7	11.13	0.78	9.14	9.8	6.9	1639	No
SP-E-IN	Influent	2025-11-04 10:42	8.1	11.82	0.32	9.67	10.2	7.4	661	No
SP-E-IN	Influent	2025-11-05 15:03	9.3	11.34	0.18	84.77	66.2	7.6	377	No
SP-E-IN	Influent	2025-11-06 10:48	10.5	11.09	0.40	28.31	24.1	6.8	809	No
SP-E-IN	Influent	2025-11-07 13:12	10.9	10.98	0.42	29.43	24.9	6.6	850	No
SP-E-IN	Influent	2025-11-08 11:38	10.4	11.23	0.30	12.58	12.4	7.8	605	No
WWTP-E-IN	Influent	2025-11-02 13:25	10.8	10.73	0.35	60.21	47.9	6.6	718	No
WWTP-E-IN	Influent	2025-11-03 11:13	10.1	10.9	0.35	21.53	19.1	6.7	723	No
WWTP-E-IN	Influent	2025-11-05 14:48	9.1	11.31	0.18	295.86	223.7	7.1	381	No
WWTP-E-IN	Influent	2025-11-06 10:14	10.8	11.07	0.19	282.93	214.0	7.2	397	No
WWTP-E-IN	Influent	2025-11-07 12:54	10.3	10.77	0.24	202.58	154.1	8.2	492	No
WWTP-E-IN	Influent	2025-11-08 11:43	10.4	11.22	0.37	23.02	20.2	7.6	750	No
Effluent [5]										
WWTP-E-OUT	Effluent	2025-11-02 13:23	10.2	11.59	0.35	0.79	3.6	6.3	703	No
WWTP-E-OUT	Effluent	2025-11-03 11:11	9.7	12.09	0.82	0.85	3.6	6.2	1621	No
WWTP-E-OUT	Effluent	2025-11-05 14:45	9.5	10.88	0.42	1.76	4.3	7.0	860	No
WWTP-E-OUT	Effluent	2025-11-06 10:29	10.3	11.70	0.89	2.01	4.5	6.3	1746	No
WWTP-E-OUT	Effluent	2025-11-06 16:11	10.1	11.34	0.93	1.17	3.9	6.6	1814	No
WWTP-E-OUT	Effluent	2025-11-07 13:06	10.3	11.40	0.72	2.33	4.7	6.7	1428	No
WWTP-E-OUT	Effluent	2025-11-08 11:50	10.4	11.49	0.51	1.45	4.1	6.7	1025	No

Notes:
The east catchment did not discharge to Howe Sound during the monitoring period (November 2 – 8). 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 WWTP-E-IN were not collected on November 4 as the East WWTP was not operational that day.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (November 2 – 8), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for WWTP-E-OUT were not collected on November 4 as the East WWTP was not operational that day.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table B-5:
East Catchment Daily Discharge Volumes for the Monitoring Period (November 2 - 8).

	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)**
Unit	**m^3**	**m^3**	**m^3**	**m^3**
PE-111578 Discharge Limit	-	-	1100	- [1]
Date				
2025-11-02	0	0	444	0
2025-11-03	0	3,621	202	0
2025-11-04	0	0	0	0
2025-11-05	0	1,109	207	0
2025-11-06	0	0	258	0
2025-11-07	0	0	344	0
2025-11-08	0	1,748	334	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 W2700T5-OUT [7]	Station W2700T5-OUT
					Influent	Effluent	Effluent
					W2700-IN	W2700T5-OUT [7]	W2700T5-OUT
					VA25C9625-002	VA25C9248-001	VA25C9305-001
		Long Term	Short Term		2025-11-05 10:54	2025-10-31 14:46	2025-11-01 16:42
General Parameters							
pH - Field	pH units	- [2]	-	5.5 - 9.0	8.0	8.6	8.2
Specific Conductivity - Field	µS/cm	-	-	-	523	1718	300
Temperature - Field	°C	-	-	-	8.4	8.4	10.3
Salinity - Field	ppt	-	-	-	0.25	0.87	0.14
Turbidity - Field	NTU	-	-	-	162.13	6.64	6.34
TSS	mg/L	-	-	25 or 75 [6]	188	5.0	-
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.32	8.64	11.43
Total Hardness	mg/L	-	-	-	104	45.5	56.9
Dissolved Hardness	mg/L	-	-	-	74.7	27.3	52.6
Anions and Nutrients							
Sulphate	mg/L	-	-	-	145	25.4	68.8
Chloride	mg/L	-	-	-	13.2	10.3	4.84
Fluoride	mg/L	-	1.5	-	0.092	0.323	0.064
Ammonia (N-NH_3)	mg/L	0.75-2.9 [3]	5-19 [3]	-	0.0201	0.312	0.0196
Nitrite (N-NO_2)	mg/L	-	-	-	0.0044	0.0018	0.0036
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.46	0.0495	0.367
Total Organic Carbon (TOC)	mg/L	-	-	-	3.55	7.25	2.17
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2.96	7.46	1.99
Total Metals							
Aluminum, total (T-Al)	mg/L	-	-	-	11.9	0.0837	0.167
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00091	0.00036	0.00059
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00278	0.00227	0.00090
Barium, total (T-Ba)	mg/L	-	-	-	0.0884	0.0132	0.00411
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.00017	<0.000020	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.034	0.016	<0.010
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	0.0000924	0.0000094	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00392	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00332	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.00994	0.00644 [7]	0.00116
Iron, total (T-Fe)	mg/L	-	-	-	9.45	0.105	0.084
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.00586	0.000673	0.000530
Manganese, total (T-Mn)	mg/L	-	-	-	0.357	0.0262	0.0267
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0158	0.00547	0.00810
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00252	<0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000143	0.000146	0.000058
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000026	<0.000010	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000048	0.000153	0.000022
Uranium, total (T-U)	mg/L	-	-	-	0.00847	0.00294	0.00309
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0167	0.00136	0.00060
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.0458	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	0.0000086	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00116	0.00065	0.00077
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	0.019	0.029
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	0.000117	0.000270
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.0217	0.0176	0.0228
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.102	0.0698	0.0691
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00138	0.00150	<0.00050
Zinc, dissolved (D-Zn)	mg/L	-	-	-	0.001	<0.0010	0.0011
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	mg/L	0.006	-	-	<0.000010	-	-
Acridine	mg/L	-	-	-	<0.000010	-	-
Anthracene	mg/L	-	-	-	<0.000010	-	-
Benz(a)anthracene	mg/L	-	-	-	0.000013	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-	***0.0000126***	-	-
Chrysene	mg/L	0.0001	-	-	0.000016	-	-
Fluoranthene	mg/L	-	-	-	0.000029	-	-
Fluorene	mg/L	0.012	-	-	<0.000010	-	-
1-methylnaphthalene	mg/L	0.001	-	-	0.000013	-	-
2-methylnaphthalene	mg/L	0.001	-	-	0.000018	-	-
Naphthalene	mg/L	0.001	-	-	<0.000050	-	-
Phenanthrene	mg/L	-	-	-	0.000021	-	-
Pyrene	mg/L	-	-	-	0.000034	-	-
Quinoline	mg/L	-	-	-	<0.000050	-	-
Volatile Organic Compounds (VOCs)							
Benzene	mg/L	0.11	-	-	<0.00050	-	-
Ethylbenzene	mg/L	0.25	-	-	<0.00050	-	-
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	-	-
Styrene	mg/L	-	-	-	<0.00050	-	-
Toluene	mg/L	0.215	-	-	<0.00040	-	-
Total Xylenes	mg/L	-	-	-	<0.00050	-	-
Chlorobenzene	mg/L	0.025	-	-	<0.00050	-	-
1,2-Dichlorobenzene	mg/L	0.042	-	-	<0.00050	-	-

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment intermittently discharged each day during the monitoring period (November 2 – 8) except on November 4.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.
[7] Clarified effluent from Train 5 of the 2700GPM TSS settling system (W2700T5-OUT) was recirculated to the West Sedimentation Pond at the time of monitoring on October 31.

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 VA25C9625-001 2025-11-05 10:35	Station SP-W-OUT Effluent SP-W-OUT VA25C9625-003 2025-11-05 11:05
		Long Term	Short Term			
General Parameters						
pH - Field	pH units	- [2]	-	5.5 - 9.0	7.9	7.9
Specific Conductivity - Field	µS/cm	-	-	-	516	478
Temperature - Field	℃	-	-	-	8.2	8.7
Salinity - Field	ppt	-	-	-	0.25	0.23
Turbidity - Field	NTU	-	-	-	358.85	3.05
TSS	mg/L	-	-	25 or 75 [6]	497	4.9
Dissolved Oxygen - Field	mg/L	≥8	-	-	11.61	11.09
Total Hardness	mg/L	-	-	-	146	74.3
Dissolved Hardness	mg/L	-	-	-	74.2	74.6
Anions and Nutrients						
Sulphate	mg/L	-	-	-	138	129
Chloride	mg/L	-	-	-	18.6	8.35
Fluoride	mg/L	-	1.5	-	0.117	0.097
Ammonia (N-NH_3)	mg/L	4.7 [3]	31 [3]	-	0.0107	0.0197
Nitrite (N-NO_2)	mg/L	-	-	-	0.0055	0.0062
Nitrate (N-NO_3)	mg/L	3.7	339	-	0.398	0.69
Total Organic Carbon (TOC)	mg/L	-	-	-	2.71	3.22
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	3.33	2.55
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	-	27.6	0.205
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	-	0.00084	0.0009
Arsenic, total (T-As)	mg/L	0.0125	-	-	0.00435	0.00151
Barium, total (T-Ba)	mg/L	-	-	-	0.199	0.0072
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000401	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.046	0.017
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	***0.000201***	<0.0000100
Chromium, total (T-Cr)	mg/L	-	-	-	0.00807	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	-	0.00757	<0.00010
Copper, total (T-Cu)	mg/L	- [2]	- [2]	0.0043	0.0201	0.00103
Iron, total (T-Fe)	mg/L	-	-	-	21.5	0.117
Lead, total (T-Pb)	mg/L	- [2]	- [2]	0.0035	0.0118	0.000205
Manganese, total (T-Mn)	mg/L	-	-	-	0.856	0.0125
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0159	0.014
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00501	<0.00050
Selenium, total (T-Se)	mg/L	0.002	-	-	0.00015	0.000101
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	0.000056	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000087	0.000019
Uranium, total (T-U)	mg/L	-	-	-	0.0103	0.00715
Vanadium, total (T-V)	mg/L	- [2]	-	0.0081	0.0354	0.00128
Zinc, total (T-Zn)	mg/L	- [2]	- [2]	0.0133	0.1	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	-	<0.00050	<0.00050
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000100	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00112	0.00065
Iron, dissolved (D-Fe)	mg/L	-	-	-	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000050	<0.000050
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.03	0.0228
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.105	0.102
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00142	0.00091
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0010	<0.0010
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	-	-	<0.000010
Acridine	mg/L	-	-	-	-	<0.000010
Anthracene	mg/L	-	-	-	-	<0.000010
Benz(a)anthracene	mg/L	-	-	-	-	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	-	-	<0.0000050
Chrysene	mg/L	0.0001	-	-	-	<0.000010
Fluoranthene	mg/L	-	-	-	-	<0.000010
Fluorene	mg/L	0.012	-	-	-	<0.000010
1-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010
2-methylnaphthalene	mg/L	0.001	-	-	-	<0.000010
Naphthalene	mg/L	0.001	-	-	-	<0.000050
Phenanthrene	mg/L	-	-	-	-	<0.000020
Pyrene	mg/L	-	-	-	-	<0.000010
Quinoline	mg/L	-	-	-	-	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.11	-	-	-	<0.00050
Ethylbenzene	mg/L	0.25	-	-	-	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	-	-	<0.00050
Styrene	mg/L	-	-	-	-	<0.00050
Toluene	mg/L	0.215	-	-	-	<0.00040
Total Xylenes	mg/L	-	-	-	-	<0.00050
Chlorobenzene	mg/L	0.025	-	-	-	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	-	-	<0.00050

Notes:
West catchment influents were not discharged to Howe Sound. Influent results above screening values are only highlighted for comparative purposes.
Non-detect results are screened using the detection limit value.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
The West Catchment intermittently discharged each day during the monitoring period (November 2 – 8) except on November 4.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs for marine waters.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] The BC WQG for total ammonia is salinity, pH and temperature dependent; see Tables 27E and 27F in BC WQG guidance document.
[4] The working BC WQG for trivalent antimony [SB(III)] is 0.27 mg/L and is applied to total antimony results.
[5] When MeHg ≤0.5% of total Hg, the BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

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

Parameter					**Total Methylmercury**	**Total Mercury**
Unit					**µg/L**	**µg/L**
Lowest Applicable Guideline[1]					0.0001 [2]	0.0027-0.0045 [3,4]
Station	**Water Type**	**Sample ID**	**Lab ID**	**Sampling Date**		
Effluent						
W2700T5-OUT	Effluent	W2700T5-OUT	VA25C9248-001	2025-10-31	0.000022	0.00059
W2700T5-OUT	Effluent	W2700T5-OUT	VA25C9305-001	2025-11-01	<0.000020	0.00090

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

Table C-4:
West Catchment Field Measurements Collected During the Monitoring Period (November 2 - 8).

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	2025-11-03 11:37	9.9	10.36	0.26	16.06	15.0	7.4	533	No
SP-W-IN	Influent	2025-11-04 17:00	9.1	10.85	0.13	109.5	84.7	8	277	No
SP-W-IN	Influent	2025-11-05 10:35	8.2	11.61	0.25	358.85	270.6	7.9	516	No
SP-W-IN	Influent	2025-11-06 12:19	10.1	10.9	0.18	66.78	52.8	7.7	365	No
SP-W-IN	Influent	2025-11-07 10:51	9.8	11.09	0.11	91.64	71.3	8.4	239	No
SP-W-IN	Influent	2025-11-08 10:50	10.3	11.1	0.28	23.77	20.7	8.2	582	No
2700GPM-IN	Influent	2025-11-02 12:22	11.0	11.27	0.19	66.39	52.5	7.5	390	No
2700GPM-IN	Influent	2025-11-03 11:27	9.8	11.11	0.23	26.85	23.0	7.4	472	No
2700GPM-IN	Influent	2025-11-04 16:55	9.7	11.32	0.24	23.85	20.8	7.6	489	No
2700GPM-IN	Influent	2025-11-05 10:54	8.4	11.32	0.25	162.13	123.9	8.0	523	No
2700GPM-IN	Influent	2025-11-06 11:51	10.0	11.08	0.16	104.62	81.0	8.1	337	No
2700GPM-IN	Influent	2025-11-07 11:15	10.1	11.21	0.14	118.66	91.5	8.0	293	No
2700GPM-IN	Influent	2025-11-08 10:54	9.9	11.36	0.27	25.26	21.8	7.7	549	No
Effluent [5]										
SP-W-OUT	Effluent	2025-11-02 11:42	10.4	11.04	0.15	2.69	5.0	6.9	320	No
SP-W-OUT	Effluent	2025-11-03 11:49	10.2	11.76	0.23	2.31	4.7	7.3	470	No
SP-W-OUT	Effluent	2025-11-03 14:21	10.3	11.12	0.24	4.21	6.1	7.9	484	No
SP-W-OUT	Effluent	2025-11-05 11:05	8.7	11.09	0.23	3.05	5.3	7.9	478	No
SP-W-OUT	Effluent	2025-11-05 11:06	8.8	11.10	0.23	2.80	5.1	7.8	478	No
SP-W-OUT	Effluent	2025-11-06 11:57	10.0	11.09	0.16	4.94	6.7	8.0	333	No
SP-W-OUT	Effluent	2025-11-07 11:12	10.1	11.32	0.15	6.35	7.7	8.0	322	No
SP-W-OUT	Effluent	2025-11-08 11:07	9.8	11.78	0.25	2.94	5.2	7.9	517	No

Notes:
West catchment influents for November 2 – 8 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. Daily field measurements for SP-W-IN were not collected on November 2 as the station could not be accessed at the time of monitoring due to excavation activities.
[5] As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent from Trains 2, 3, 4 and 5 was intermittently discharged to Howe Sound at the authorized discharge location (SP-W-OUT) each day during the monitoring period (November 2 – 8) except on November 4, therefore daily field measurements for SP-W-OUT were not collected on that day.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions.

Table C-5:
West Catchment Daily Discharge Volumes for the Monitoring Period (November 2 - 8).

	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					
2025-11-02	0	3,966	0	0	2,311
2025-11-03	0	1,399	0	0	1,342
2025-11-04	0	0	0	0	0
2025-11-05	0	4,275	0	0	2,928
2025-11-06	0	5,076	0	0	4,223
2025-11-07	0	4,901	0	0	4,392
2025-11-08	0	3,369	17	0	2,718

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

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

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

Parameter	Unit	Lowest Applicable Guideline [1, 2]		Station OUT-01 Non-Contact Water Diversion Ditch Outlet OUT-01 VA25C8622-001
		Long Term	Short Term	2025-10-26 11:53
General Parameters				
pH - Field	pH units	6.5 - 9.0	-	***6.2***
Specific Conductivity - Field	µS/cm	-	-	15
Temperature - Field	℃	-	-	9.9
Salinity - Field	ppt	-	-	0.01
Turbidity - Field	NTU	-	-	1.48
TSS	mg/L	-	-	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	10.99
Total Hardness	mg/L	-	-	5.11
Dissolved Hardness	mg/L	-	-	4.95
Anions and Nutrients				
Sulphate [2]	mg/L	128	-	1.67
Chloride	mg/L	120	600	0.89
Fluoride [2]	mg/L	-	0.400	<0.020
Ammonia ($N\text{-}NH_3$) [2]	mg/L	1.86	25.7	0.008
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.02	0.06	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0848
Total Organic Carbon (TOC)	mg/L	-	-	5.53
Total Inorganic Carbon (DOC)	mg/L	-	-	5.23
Total Metals				
Aluminum, total (T-Al) [2]	mg/L	0.0358	-	***0.290***
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010
Arsenic, total (T-As)	mg/L	0.005	-	0.00016
Barium, total (T-Ba)	mg/L	1	-	0.0039
Beryllium, total (T-Be)	mg/L	0.00013	-	<0.000020
Boron, total (T-B)	mg/L	1.2	29	<0.010
Cadmium, total (T-Cd) [2]	mg/L	0.000036	0.000106	0.0000087
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000778	-	<0.00010
Copper, total (T-Cu)	mg/L	-	-	0.001
Iron, total (T-Fe)	mg/L	0.3	1	0.104
Lead, total (T-Pb)	mg/L	-	-	0.000225
Manganese, total (T-Mn) [2]	mg/L	0.768	0.816	0.00394
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000267
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050
Selenium, total (T-Se)	mg/L	0.001	-	<0.000050
Silver, total (T-Ag)	mg/L	0.00012	-	<0.000010
Thallium, total (T-Tl)	mg/L	0.0008	-	<0.000010
Uranium, total (T-U)	mg/L	0.0085	0.033	0.000059
Vanadium, total (T-V)	mg/L	0.12	-	0.00054
Zinc, total (T-Zn)	mg/L	-	-	0.0041
Hexavalent Chromium, total	mg/L	0.001	-	-
Dissolved Metals				
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000024	0.000038	<0.0000050
Copper, dissolved (D-Cu) [2]	mg/L	0.00020	0.00061	***0.00076***
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.024
Lead, dissolved (D-Pb) [2]	mg/L	0.0026	-	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.29	1.97	0.00264
Nickel, dissolved (D-Ni) [2]	mg/L	0.000800	0.0133	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00723
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00976	0.0112	0.0026
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	mg/L	0.0058	-	-
Acridine	mg/L	0.003	-	-
Anthracene	mg/L	0.000012	-	-
Benz(a)anthracene	mg/L	0.000018	-	-
Benzo(a)pyrene	mg/L	0.00001	-	-
Chrysene	mg/L	-	-	-
Fluoranthene	mg/L	0.00004	-	-
Fluorene	mg/L	0.003	-	-
1-methylnaphthalene	mg/L	-	-	-
2-methylnaphthalene	mg/L	-	-	-
Naphthalene	mg/L	0.001	0.001	-
Phenanthrene	mg/L	0.0003	-	-
Pyrene	mg/L	0.00002	-	-
Quinoline	mg/L	0.0034	-	-
Volatile Organic Compounds (VOCs)				
Benzene	mg/L	0.04	-	-
Ethylbenzene	mg/L	0.09	-	-
Methyl-tert-butyl-ether	mg/L	10	3.4	-
Styrene	mg/L	0.072	-	-
Toluene	mg/L	0.0005	-	-
Total Xylenes	mg/L	0.03	-	-
Chlorobenzene	mg/L	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-

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

Table D-2:
Non-Contact Water Diversion Ditch Outlets 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]	0.0055 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
OUT-06	Non-Contact Water Diversion Ditch Outlet	OUT-06	VA25C6247-001	2025-10-03	0.000023	0.00126

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

Appendix E:
Freshwater Receiving Environment Results

Table E-1:
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 VA25C8588-001 2025-10-25 13:33	Station SW-02 Mill Creek Lower Reach SW-02 VA25C8588-002 2025-10-25 12:08	Station SW-07 Upstream Mill Creek SW-07 VA25C8588-005 2025-10-25 10:43	Station SW-04 East Creek Lower Reach SW-04 VA25C8588-004 2025-10-25 11:25
		Long Term	Short Term				
General Parameters							
pH - Field	pH units	6.5 - 9.0	-	6.6	7.67	***9.8***	***6.43***
Specific Conductivity - Field	µS/cm	-	-	9.3	13.7	12.4	109.9
Temperature - Field	℃	-	-	8	8.1	7.8	10.4
Salinity - Field	ppt	-	-	0	0.01	0	0.05
Turbidity - Field	NTU	-	-	1.17	1.05	0.96	0.78
TSS	mg/L	-	-	<3.0	<3.0	<3.0	3
Dissolved Oxygen - Field	mg/L	>=8	>=5	11.8	11.82	11.67	10.92
Total Hardness	mg/L	-	-	2.79	4.19	3.51	42.4
Dissolved Hardness	mg/L	-	-	2.96	4.14	3.57	44.4
Anions and Nutrients							
Sulphate [2]	mg/L	128-218	-	0.56	1.71	1.7	7.88
Chloride	mg/L	120	600	0.66	0.68	0.67	4.66
Fluoride [2]	mg/L	-	0.400-0.989	<0.020	<0.020	<0.020	0.111
Ammonia ($N\text{-}NH_3$) [2]	mg/L	0.034-32.4	0.681-25.5	<0.0050	0.006	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.0200-0.0600	0.06-0.18	<0.0010	<0.0010	<0.0010	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0744	0.112	0.119	0.0381
Total Organic Carbon (TOC)	mg/L	-	-	3.91	2.48	2.46	3.09
Total Inorganic Carbon (DOC)	mg/L	-	-	3.61	2.24	2.54	3.13
Total Metals							
Aluminum, total (T-Al) [2]	mg/L	0.0482-0.642	-	***0.182***	0.130	0.126	***0.181***
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	<0.00010	<0.00010	0.00015
Arsenic, total (T-As)	mg/L	0.005	-	0.00013	0.00012	0.00013	0.00061
Barium, total (T-Ba)	mg/L	1	-	0.00228	0.00311	0.00297	0.00719
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	0.000036-0.000078	0.00011-0.00088	<0.0000050	0.0000087	0.0000093	0.0000164
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000780	-	<0.00010	<0.00010	0.0001	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050	<0.00050	<0.00050	0.00132
Iron, total (T-Fe)	mg/L	0.3	1	0.048	0.03	0.032	0.141
Lead, total (T-Pb)	mg/L	-	-	0.000066	<0.000050	<0.000050	0.000097
Manganese, total (T-Mn) [2]	mg/L	0.768-0.792	0.816-1.01	0.00224	0.00164	0.00185	0.0145
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000218	0.000294	0.000256	0.0106
Nickel, total (T-Ni) [2]	mg/L	0.0250	-	<0.00050	<0.00050	<0.00050	0.00058
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	0.000547	0.000174	0.000164	0.000456
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	0.001	-	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000018-0.00011	0.000038-0.00024	<0.0000050	0.0000109	0.0000086	0.0000112
Copper, dissolved (D-Cu) [2]	mg/L	0.000200-0.00112	0.0012-0.0069	***0.00027***	0.00034	0.00037	***0.00123***
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.025	0.010	0.011	0.025
Lead, dissolved (D-Pb) [2]	mg/L	0.00163-0.00310	-	0.00016	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.20-0.35	1.97-3.13	0.00154	0.0015	0.00219	0.00929
Nickel, dissolved (D-Ni) [2]	mg/L	0.000600-0.000900	0.0109-0.0129	<0.00050	<0.00050	<0.00050	0.00051
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00408	0.00631	0.00548	0.0424
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00194-0.0140	0.00914-0.0252	0.0016	0.0013	0.0015	0.0025
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	Station SW-02 Mill Creek Lower Reach	Station SW-07 Upstream Mill Creek	Station SW-04 East Creek Lower Reach
				SW-01	SW-02	SW-07	SW-04
				VA25C9109-001	VA25C9109-002	VA25C9109-005	VA25C9109-004
		Long Term	Short Term	2025-10-30 8:53	2025-10-30 12:55	2025-10-30 13:24	2025-10-30 11:56
General Parameters							
pH - Field	pH units	6.5 - 9.0	-	***6.3***	6.7	8.1	7.3
Specific Conductivity - Field	µS/cm	-	-	9	15	14	90
Temperature - Field	℃	-	-	6.8	7.2	6.8	11.3
Salinity - Field	ppt	-	-	0	0.01	0.01	0.04
Turbidity - Field	NTU	-	-	0.04	0.28	0.97	1.46
TSS	mg/L	-	-	<3.0	<3.0	<3.0	<3.0
Dissolved Oxygen - Field	mg/L	>=8	>=5	12.51	12.47	12.16	11.21
Total Hardness	mg/L	-	-	2.88	4.51	3.49	34
Dissolved Hardness	mg/L	-	-	2.76	4.3	3.41	31.8
Anions and Nutrients							
Sulphate [2]	mg/L	128-218	-	0.53	2.04	2.12	5.7
Chloride	mg/L	120	600	0.65	0.72	0.73	3.16
Fluoride [2]	mg/L	-	0.400-0.900	<0.020	<0.020	<0.020	0.098
Ammonia ($N\text{-}NH_3$) [2]	mg/L	0.502-48.3	4.84-26.5	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$) [2]	mg/L	0.0200-0.0400	0.06-0.12	<0.0010	<0.0010	<0.0010	<0.0010
Nitrate ($N\text{-}NO_3$)	mg/L	3	32.8	0.0553	0.0702	0.0621	<0.0050
Total Organic Carbon (TOC)	mg/L	-	-	3.34	1.81	2.04	2.49
Total Inorganic Carbon (DOC)	mg/L	-	-	3.11	1.75	1.98	2.33
Total Metals							
Aluminum, total (T-Al) [2]	mg/L	0.029-0.24	-	***0.180***	***0.0979***	0.0995	***0.153***
Antimony, total (T-Sb)	mg/L	0.074	-	<0.00010	<0.00010	<0.00010	0.0001
Arsenic, total (T-As)	mg/L	0.005	-	0.00011	<0.00010	<0.00010	0.00066
Barium, total (T-Ba)	mg/L	1	-	0.00234	0.00299	0.00398	0.00589
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	0.000036-0.000065	0.00011-0.00070	<0.0000050	0.0000077	<0.0000050	0.0000143
Chromium, total (T-Cr) [3]	mg/L	0.001	-	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co) [2]	mg/L	0.000780	-	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total (T-Cu)	mg/L	-	-	<0.00050	<0.00050	0.00055	0.00122
Iron, total (T-Fe)	mg/L	0.3	1	0.068	0.016	0.016	0.115
Lead, total (T-Pb)	mg/L	-	-	0.000084	<0.000050	<0.000050	0.000066
Manganese, total (T-Mn) [2]	mg/L	0.768	0.816-0.915	0.00237	0.00098	0.00162	0.0147
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000219	0.000347	0.00038	0.00975
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	0.000581	0.000163	0.000098	0.000491
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	0.001	-	<0.00050	<0.00050	<0.00050	<0.00050
Dissolved Metals							
Cadmium, dissolved (D-Cd) [2]	mg/L	0.000018-0.000096	0.000038-0.00019	<0.0000050	0.0000057	0.0000055	0.0000127
Copper, dissolved (D-Cu) [2]	mg/L	0.000200-0.000717	0.00045-0.00414	***0.00021***	***0.00032***	0.00035	***0.00081***
Iron, dissolved (D-Fe)	mg/L	-	0.35	0.025	<0.010	<0.010	0.018
Lead, dissolved (D-Pb) [2]	mg/L	0.00143-0.00254	-	<0.000050	<0.000050	<0.000050	<0.000050
Manganese, dissolved (D-Mn) [2]	mg/L	0.310-0.380	1.97-2.58	0.00052	0.00066	0.00117	0.011
Nickel, dissolved (D-Ni) [2]	mg/L	0.000600-0.00110	0.00940-0.0131	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.00389	0.00669	0.00575	0.0299
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050
Zinc, dissolved (D-Zn) [2]	mg/L	0.00180-0.00794	0.00862-0.0196	0.0010	<0.0010	0.0014	0.0020
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-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]	0.0014-0.0032 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-01	Woodfibre Creek Lower Reach	SW-01	VA25C6424-001	2025-10-05	0.000051	0.00163
SW-02	Lower Freshwater Reach of Mill Creek (upstream of the third bridge)	SW-02	VA25C6424-002	2025-10-05	0.000028	0.00068
SW-07	Upstream Mill Creek (at the diversion inlet)	SW-07	VA25C6424-004	2025-10-05	0.000037	<0.00050
SW-04	East Creek Lower Reach	SW-04	VA25C6424-005	2025-10-05	0.000043	0.00070

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 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	Station SW-03
				Mill Creek Estuary	Mill Creek Estuary
				SW-03	SW-03
				VA25C8588-003	VA25C9109-003
		Long Term	Short Term	2025-10-25 12:37	2025-10-30 12:24
General Parameters					
pH - Field	pH units	7.0 - 8.7	-	***6.5***	7.2
Specific Conductivity - Field	µS/cm	-	-	1623	1957
Temperature - Field	°C	-	-	8.3	8.8
Salinity - Field	ppt	-	-	0.8	1.0
Turbidity - Field	NTU	-	-	1.51	0.95
TSS	mg/L	-	-	<3.0	<9.7
Dissolved Oxygen - Field	mg/L	-	-	11.94	12.37
Total Hardness	mg/L	-	-	41	251
Dissolved Hardness	mg/L	-	-	106	241
Anions and Nutrients					
Sulphate	mg/L	-	-	17.1	87
Chloride	mg/L	-	-	110	739
Fluoride	mg/L	-	-	<0.020	<0.400
Ammonia ($N\text{-}NH_3$)	mg/L	-	-	<0.0050	<0.0050
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	<0.0010	<0.0200
Nitrate ($N\text{-}NO_3$)	mg/L	-	-	0.11	0.122
Total Organic Carbon (TOC)	mg/L	-	-	2.39	2.04
Total Inorganic Carbon (DOC)	mg/L	-	-	2.47	1.79
Total Metals					
Aluminum, total (T-Al)	mg/L	-	-	0.137	0.21
Antimony, total (T-Sb)	mg/L	-	-	<0.00010	<0.00020
Arsenic, total (T-As)	mg/L	-	-	0.00012	<0.00020
Barium, total (T-Ba)	mg/L	-	-	0.00326	0.00478
Beryllium, total (T-Be)	mg/L	-	-	<0.000020	<0.000040
Boron, total (T-B)	mg/L	-	-	0.029	0.182
Cadmium, total (T-Cd)	mg/L	-	-	0.0000061	0.0000122
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00100
Cobalt, total (T-Co)	mg/L	-	-	<0.00010	<0.00020
Copper, total (T-Cu)	mg/L	0.002	0.003	<0.00050	<0.00100
Iron, total (T-Fe)	mg/L	-	-	0.042	0.12
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.000050	<0.000100
Manganese, total (T-Mn)	mg/L	-	-	0.00207	0.006
Molybdenum, total (T-Mo)	mg/L	-	-	0.000414	0.000793
Nickel, total (T-Ni)	mg/L	-	-	<0.00050	<0.00100
Selenium, total (T-Se)	mg/L	-	-	<0.000050	<0.000100
Silver, total (T-Ag)	mg/L	-	-	<0.000010	<0.000020
Thallium, total (T-Tl)	mg/L	-	-	<0.000010	<0.000020
Uranium, total (T-U)	mg/L	-	-	0.000187	0.000259
Vanadium, total (T-V)	mg/L	-	-	<0.00050	<0.00100
Zinc, total (T-Zn)	mg/L	-	-	<0.0030	<0.0060
Hexavalent Chromium, total	mg/L	-	-	<0.00050	<0.00050
Dissolved Metals					
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.0000088	<0.0000100
Copper, dissolved (D-Cu)	mg/L	-	-	0.00044	<0.00040
Iron, dissolved (D-Fe)	mg/L	-	-	0.012	<0.020
Lead, dissolved (D-Pb)	mg/L	-	-	<0.000050	<0.000100
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00308	0.00158
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00100
Strontium, dissolved (D-Sr)	mg/L	-	-	0.131	0.296
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	<0.00100
Zinc, dissolved (D-Zn)	mg/L	-	-	<0.0010	<0.0020
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	mg/L	-	-	<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	-	-	<0.0000050	<0.0000050
Chrysene	mg/L	-	-	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010
Fluorene	mg/L	-	-	<0.000010	<0.000010
1-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
2-methylnaphthalene	mg/L	-	-	<0.000010	<0.000010
Naphthalene	mg/L	-	-	<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	-	-	<0.00050	<0.00050
Ethylbenzene	mg/L	-	-	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	-	-	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050
Toluene	mg/L	-	-	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<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 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 water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

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]	0.0073 [3,4]
Station	**Description**	**Sample ID**	**Lab ID**	**Sampling Date**		
SW-03	Mill Creek Estuary	SW-03	VA25C6424-003	2025-10-05	<0.000020	0.00146

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 G:
Marine Water Receiving Environment 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
				VA25C8524-001	VA25C8524-002	VA25C8524-003	VA25C8524-004	VA25C8524-005	VA25C8524-006
		Long Term	Short Term	2025-10-24 10:10	2025-10-24 10:00	2025-10-24 9:40	2025-10-24 16:15	2025-10-24 15:45	2025-10-24 15:15
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.62	7.60	7.48	7.61	7.62	7.55
Specific Conductivity - Field	µS/cm	-	-	12784	36956	46221	20321	23181	45196
Temperature - Field	°C	-	-	9.0	10.1	10.4	9.4	9.5	10.7
Salinity - Field	ppt	Narrative [2]	-	7.35	23.31	29.84	12.12	13.99	29.12
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	9.06	4.25	2.55	10.73	11.17	2.84
TSS	mg/L	Narrative [2]	Narrative [2]	17.0	5.9	7.6	18.5	12.9	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	10.68	8.85	***5.22***	9.89	9.62	***5.79***
Total Hardness	mg/L	-	-	900	4460	5390	2450	2660	5280
Dissolved Hardness	mg/L	-	-	690	4340	4860	2180	2070	5240
Anions and Nutrients									
Sulphate	mg/L	-	-	342	1970	2290	1040	1160	2300
Chloride	mg/L	-	-	2500	13900	16100	7350	8210	16200
Fluoride	mg/L	-	1.5	<1.0	<1.0	1	<1.0	<1.0	1.0
Ammonia (N-NH_3)	mg/L	5.0-8.7 [3]	33-58 [3]	0.0076	0.0214	0.0127	0.0074	0.0084	0.0136
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	0.53	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	3.34	1.25	1.26	2.54	2.14	1.12
Dissolved Organic Carbon (DOC)	mg/L	-	-	2.5	1.41	1.03	2.18	2.06	1.17
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.503	0.127	0.0226	0.461	0.369	0.0344
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	0.00042	0.0013	0.00148	0.00083	0.00085	0.00149
Barium, total (T-Ba)	mg/L	-	-	0.0083	0.011	0.0098	0.0136	0.014	0.0098
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	-	0.59	***2.16***	***2.38***	***1.34***	***1.42***	***2.40***
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.000028	0.000067	0.000077	0.000044	0.000039	0.000073
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000205	0.000116	0.000071	0.000237	0.000205	0.000079
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00109	0.00082	0.00066	0.00158	0.00131	0.00057
Iron, total (T-Fe)	mg/L	-	-	0.324	0.142	0.024	0.384	0.334	0.032
Lead, total (T-Pb)	mg/L	0.002	0.14	0.00017	<0.00010	<0.00010	0.00013	0.00012	<0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.0134	0.00843	0.00453	0.0168	0.0152	0.00449
Molybdenum, total (T-Mo)	mg/L	-	-	0.00186	0.00849	0.00966	0.00461	0.00479	0.00957
Nickel, total (T-Ni)	mg/L	0.0083	-	0.00052	0.00066	0.00068	0.00071	0.00066	0.00061
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	-	-	0.000632	0.00222	0.00241	0.00124	0.00137	0.00241
Vanadium, total (T-V)	mg/L	0.005	-	0.0011	0.00166	0.00151	0.00174	0.00169	0.00148
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	0.000055	0.000093	0.000047	0.000041	0.000084
Copper, dissolved (D-Cu)	mg/L	-	-	0.0006	<0.00050	<0.00050	0.0006	0.00056	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.019	<0.010	<0.010	0.015	0.015	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.004	0.00459	0.00454	0.00694	0.0065	0.00347
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	0.00058	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	0.929	5.39	6.05	2.84	2.67	6.38
Vanadium, dissolved (D-V)	mg/L	-	-	<0.00050	0.00122	0.00143	0.00079	0.00083	0.00145
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0018	0.0016	<0.0010	0.0027	0.0013	0.0011
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 <30 days, 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 using reference station WQR2 collected October 24 (Table D-2).
[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]		Reference Station WQR2	Reference Station WQR2	Reference Station WQR2
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				WQR2-0.5	WQR2-2m	WQR2-SF
				VA25C8524-007	VA25C8524-008	VA25C8524-009
		Long Term	Short Term	2025-10-24 12:00	2025-10-24 11:40	2025-10-24 11:20
General Parameters						
pH - Field	pH units	7.0 - 8.7	-	7.71	7.67	7.45
Specific Conductivity - Field	µS/cm	-	-	34343	42445	46573
Temperature - Field	°C	-	-	10.1	10.7	10.2
Salinity - Field	ppt	Narrative [2]	-	21.51	27.17	30.08
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	3.53	2.77	2.97
TSS	mg/L	Narrative [2]	Narrative [2]	7.6	2.8	3.2
Dissolved Oxygen - Field	mg/L	>=8	-	***7.95***	***6.98***	***4.87***
Total Hardness	mg/L	-	-	906	3330	5260
Dissolved Hardness	mg/L	-	-	797	2980	5290
Anions and Nutrients						
Sulphate	mg/L	-	-	406	1460	2310
Chloride	mg/L	-	-	2960	10300	16400
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	5.0-7.8 [3]	33-58 [3]	0.0119	0.0124	0.021
Nitrite (N-NO_2)	mg/L	-	-	<0.10	<0.10	<0.10
Nitrate (N-NO_3)	mg/L	3.7	339	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	1.91	1.68	1.06
Dissolved Organic Carbon (DOC)	mg/L	-	-	2.24	1.45	1.08
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	0.246	0.0935	0.0144
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	<0.00040	0.00105	0.00155
Barium, total (T-Ba)	mg/L	-	-	0.0104	0.0097	0.0099
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	0.58	***1.64***	***2.37***
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000059	0.000085
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000142	0.000105	0.000081
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00123	0.00078	0.00055
Iron, total (T-Fe)	mg/L	-	-	0.216	0.089	0.014
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.0157	0.00902	0.00449
Molybdenum, total (T-Mo)	mg/L	-	-	0.00194	0.00628	0.00977
Nickel, total (T-Ni)	mg/L	0.0083	-	0.00056	0.00053	0.00067
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.000494	0.00173	0.00255
Vanadium, total (T-V)	mg/L	0.005	-	0.00104	0.00121	0.00149
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	<0.000020	0.000065	0.000079
Copper, dissolved (D-Cu)	mg/L	-	-	0.00053	0.00057	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.029	<0.010	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	0.00018	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.0117	0.00694	0.0044
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	1.16	3.91	6.36
Vanadium, dissolved (D-V)	mg/L	-	-	0.00065	0.00102	0.00149
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0023	<0.0010	0.0017
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050

Notes:
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-3:
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
				VA25C8627-001	VA25C8627-002	VA25C8627-003	VA25C8627-004	VA25C8627-005	VA25C8627-006
		Long Term	Short Term	2025-10-26 14:10	2025-10-26 13:40	2025-10-26 13:15	2025-10-26 15:20	2025-10-26 15:05	2025-10-26 14:40
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.76	7.76	7.53	7.75	7.78	7.58
Specific Conductivity - Field	µS/cm	-	-	26004	28770	45312	14309	25594	44696
Temperature - Field	°C	-	-	9.2	9.4	10.6	8.6	9.3	10.8
Salinity - Field	ppt	Narrative [2]	-	15.85	17.59	29.2	8.29	15.58	28.77
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	20.75	7.80	5.43	12.29	8.21	4.18
TSS	mg/L	Narrative [2]	Narrative [2]	6.8	4.6	2.0	10.9	8.3	3.5
Dissolved Oxygen - Field	mg/L	>=8	-	9.70	9.4	***6.00***	10.33	9.43	***6.81***
Total Hardness	mg/L	-	-	1960	5210	4680	788	1670	5120
Dissolved Hardness	mg/L	-	-	1790	5470	4580	679	1460	4850
Anions and Nutrients									
Sulphate	mg/L	-	-	769	2090	1980	442	674	2200
Chloride	mg/L	-	-	5830	15300	14500	3500	5130	15800
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH_3)	mg/L	7.2-8.7 [3]	48-58 [3]	0.0126	0.0136	0.017	0.0084	0.0126	0.0206
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	-	-	2.46	1.53	1.38	4.46	2.91	1.22
Dissolved Organic Carbon (DOC)	mg/L	-	-	2.44	1.11	1.31	4.07	2.45	0.78
Total Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.343	0.0255	0.0536	0.636	0.406	0.0221
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	0.00073	0.00152	0.00138	0.00065	0.00063	0.00149
Barium, total (T-Ba)	mg/L	-	-	0.0134	0.01	0.0105	0.0141	0.0135	0.0101
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	-	1.09	***2.31***	***2.15***	0.52	0.95	***2.34***
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.000045	0.000075	0.000081	0.00003	0.000043	0.000071
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000195	0.000082	0.000092	0.000287	0.000197	0.000086
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00169	0.0006	0.00071	***0.00292***	0.00197	0.00053
Iron, total (T-Fe)	mg/L	-	-	0.265	0.024	0.043	0.509	0.319	0.02
Lead, total (T-Pb)	mg/L	0.002	0.14	0.00012	<0.00010	<0.00010	0.00027	0.00013	<0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.0152	0.00488	0.0056	0.0234	0.0166	0.00491
Molybdenum, total (T-Mo)	mg/L	-	-	0.00371	0.00941	0.00878	0.00278	0.0035	0.00949
Nickel, total (T-Ni)	mg/L	0.0083	-	0.00059	0.00054	0.00064	0.001	0.00053	0.00058
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	-	-	0.00102	0.00244	0.00222	0.000606	0.000918	0.00241
Vanadium, total (T-V)	mg/L	0.005	-	0.00139	0.00142	0.00142	0.00149	0.00147	0.00144
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030	0.0043	0.0034	<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	-	-	0.000041	0.000069	0.000075	<0.000020	0.000035	0.000072
Copper, dissolved (D-Cu)	mg/L	-	-	0.00078	<0.00050	<0.00050	0.00151	0.00101	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.021	<0.010	<0.010	0.03	0.023	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00769	0.00417	0.00499	0.00826	0.00809	0.00378
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	2.17	6.5	5.53	0.96	1.96	6.19
Vanadium, dissolved (D-V)	mg/L	-	-	0.00068	0.00143	0.00128	0.00055	0.00072	0.0014
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0021	0.0011	0.0014	0.0023	0.0024	<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 <30 days, 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 using reference station WQR1 collected October 26 (Table D-4).
[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:
Summary of Marine Water Quality Results Received at the Time of Reporting

Parameter	Unit	Lowest Applicable Guideline [1]		Reference Station WQR1	Reference Station WQR1	Reference Station WQR1
				0.5 m Below Surface	2 m Below Surface	2 m Above Seafloor
				WQR1-0.5	WQR1-2m	WQR1-SF
				VA25C8627-007	VA25C8627-008	VA25C8627-009
		Long Term	Short Term	2025-10-26 10:15	2025-10-26 10:00	2025-10-26 9:30
General Parameters						
pH - Field	pH units	7.0 - 8.7	-	7.55	7.63	7.41
Specific Conductivity - Field	µS/cm	-	-	28086	30848	46770
Temperature - Field	°C	-	-	9.3	9.5	10
Salinity - Field	ppt	Narrative [2]	-	17.23	19.1	30.21
Turbidity - Field	NTU	Narrative [2]	Narrative [2]	7.95	7.35	4.55
TSS	mg/L	Narrative [2]	Narrative [2]	5.1	5.1	2.8
Dissolved Oxygen - Field	mg/L	>=8	-	9.6	9.33	***4.82***
Total Hardness	mg/L	-	-	2700	2850	4610
Dissolved Hardness	mg/L	-	-	2540	2660	4270
Anions and Nutrients						
Sulphate	mg/L	-	-	1260	1250	1930
Chloride	mg/L	-	-	9260	9190	13900
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0
Ammonia ($N\text{-}NH_3$)	mg/L	7.2-13 [3]	48-85 [3]	0.0182	0.0135	0.0165
Nitrite ($N\text{-}NO_2$)	mg/L	-	-	<0.10	<0.10	<0.10
Nitrate ($N\text{-}NO_3$)	mg/L	3.7	339	<0.50	<0.50	<0.50
Total Organic Carbon (TOC)	mg/L	-	-	2.06	2.08	1.19
Dissolved Organic Carbon (DOC)	mg/L	-	-	1.94	1.82	0.93
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	0.277	0.237	0.0566
Antimony, total (T-Sb)	mg/L	-	0.27 [4]	<0.0010	<0.0010	<0.0010
Arsenic, total (T-As)	mg/L	0.0125	0.0125	0.0009	0.00096	0.00141
Barium, total (T-Ba)	mg/L	-	-	0.0122	0.0126	0.0108
Beryllium, total (T-Be)	mg/L	0.1	-	<0.00050	<0.00050	<0.00050
Boron, total (T-B)	mg/L	1.2	-	***1.47***	***1.51***	***2.19***
Cadmium, total (T-Cd)	mg/L	0.00012	-	0.000056	0.000053	0.000068
Chromium, total (T-Cr)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000167	0.000162	0.000098
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00183	0.00165	0.0007
Iron, total (T-Fe)	mg/L	-	-	0.208	0.204	0.049
Lead, total (T-Pb)	mg/L	0.002	0.14	<0.00010	<0.00010	<0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.0115	0.0114	0.00611
Molybdenum, total (T-Mo)	mg/L	-	-	0.00536	0.00561	0.00863
Nickel, total (T-Ni)	mg/L	0.0083	-	0.00058	0.00057	0.00056
Selenium, total (T-Se)	mg/L	0.002	-	<0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L	0.0005	0.0037	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	<0.000050
Uranium, total (T-U)	mg/L	-	-	0.0014	0.00146	0.00225
Vanadium, total (T-V)	mg/L	0.005	-	0.00145	0.00141	0.00147
Zinc, total (T-Zn)	mg/L	0.01	0.055	<0.0030	<0.0030	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	-	<0.00150	<0.00150	<0.00150
Dissolved Metals						
Cadmium, dissolved (D-Cd)	mg/L	-	-	0.000048	0.000057	0.000076
Copper, dissolved (D-Cu)	mg/L	-	-	0.00095	0.00071	<0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.012	0.011	<0.010
Lead, dissolved (D-Pb)	mg/L	-	-	<0.00010	<0.00010	<0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00584	0.0059	0.00493
Nickel, dissolved (D-Ni)	mg/L	-	-	<0.00050	<0.00050	<0.00050
Strontium, dissolved (D-Sr)	mg/L	-	-	3.42	3.62	5.61
Vanadium, dissolved (D-V)	mg/L	-	-	0.00092	0.00098	0.00122
Zinc, dissolved (D-Zn)	mg/L	-	-	0.0014	0.0011	0.0015
Polycyclic Aromatic Hydrocarbons (PAHs)						
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	<0.000010
Acridine	mg/L	-	-	<0.000010	<0.000010	<0.000010
Anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benz(a)anthracene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.00001	-	<0.0000050	<0.0000050	<0.0000050
Chrysene	mg/L	0.0001	-	<0.000010	<0.000010	<0.000010
Fluoranthene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Fluorene	mg/L	0.012	-	<0.000010	<0.000010	<0.000010
1-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010
2-methylnaphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000050	<0.000050	<0.000050
Phenanthrene	mg/L	-	-	<0.000020	<0.000020	<0.000020
Pyrene	mg/L	-	-	<0.000010	<0.000010	<0.000010
Quinoline	mg/L	-	-	<0.000050	<0.000050	<0.000050
Volatile Organic Compounds (VOCs)						
Benzene	mg/L	0.11	-	<0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.25	-	<0.00050	<0.00050	<0.00050
Methyl-tert-butyl-ether	mg/L	5	0.44	<0.00050	<0.00050	<0.00050
Styrene	mg/L	-	-	<0.00050	<0.00050	<0.00050
Toluene	mg/L	0.215	-	<0.00040	<0.00040	<0.00040
Total Xylenes	mg/L	-	-	<0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050
1,2-Dichlorobenzene	mg/L	0.042	-	<0.00050	<0.00050	<0.00050

Notes:
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.