

TECHNICAL MEMORANDUM

To: Ian McAllister, Ashleigh Crompton, Mike Champion, Date: 6 June 2025

Mark Zan and Ryan Schucroft (Woodfibre LNG)

From: Holly Pelletier, Cheng Kuang and Patrick Mueller (Lorax) Project #: A633-9

Subject: PE-111578 Weekly Discharge and Compliance Report #66 for May 25 - 31

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 provides water quality database management and WDA compliance reporting services to Woodfibre LNG.

This technical memorandum (Report #66) was prepared by Lorax Environmental and summarizes WDA monitoring conducted for the period of May 25 - 31. 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 #66 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

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

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

1. Current Conditions

1.1 Water Management Infrastructure

The Construction Phase of the Woodfibre LNG Export Facility commenced in October 2023. Shoring works along the foreshore areas were initiated in December 2023, and in early 2024 construction of water management infrastructure commenced. 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. Discharge to Howe Sound from the East and West Sedimentation Ponds commenced April and October 2024, respectively.

The West WWTP was commissioned August and September 2024, but operation of the West WWTP was subsequently suspended September 25, 2024 for 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 approved treatment process is maintained. Lower than expected volumes of contaminated contact water have been encountered during construction, therefore the operation of the West WWTP remains suspended and west catchment waters that require treatment are directed to the East WWTP.

Non-contact water 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 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.

The east and west catchments 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 for TSS settling prior to discharge.

Flocculant-based TSS settling systems are used at the East and West Sedimentation Ponds to remove TSS from pond effluent. The first West Sedimentation Pond TSS settling system (ESC) was commissioned for use on September 25, 2024, with an 820 m³/day installed capacity.

Additional TSS settling systems (W500GPM) was commissioned for use on November 28 and provides an additional 2,725 m³/day installed capacity for clarifying water. A third TSS settling system (E500GPM) was commissioned for use at the East Sedimentation Pond on December 4, 2024, also with 2,725 m³/day installed capacity.

Discharge from the East and West Sedimentation Ponds is controlled using pumps. Water stored in the ponds is pumped to a TSS settling system prior to discharge through the authorized outfall structures adjacent to each pond. Some of the TSS clarified water may be recirculated back to the ponds or used for road dust suppression. Non-contaminated contact water stored in the East Sedimentation Pond is clarified through the E500GPM prior to re-use or discharge to Howe Sound at location SP-E-OUT. The west catchment discharge location, SP-W-OUT, receives the combined clarified effluents from the ESC and W500GPM TSS settling systems. Each of the authorized discharge locations (SP-E-OUT and SP-W-OUT) has 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.

Preparations underway for the next stages of construction will include further upgrades to water management in the east and west catchments and consolidate the three TSS settling systems currently on site into a single high capacity system located adjacent to the West Sedimentation Pond. Commissioning of the planned system is scheduled to commence August 2025. The planned modifications will result in most of the east and west catchments non-contaminated contact water being clarified through the high capacity TSS settling system and discharged at SP-W-OUT.

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 monitoring period (May 25 - 31), with precipitation recorded each day except May 27 and 28. The total precipitation amount during the monitoring period was 43.0 mm with the majority occurring on May 26 (13.2 mm), May 29 (14.4 mm) and May 31 (14.8 mm). The daily weather conditions are summarized in Table 1.

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

Date	Precipitation (mm)	Max. Temp (°C)	Min. Temp (°C)	Weather Description
2025-05-25	0.4	20.1	9.6	Mix of Sun and Cloud
2025-05-26	13.2	17.8	11.2	Rain
2025-05-27	0	20.7	10.5	Mix of Sun and Cloud
2025-05-28	0	25.8	12.3	Mix of Sun and Cloud
2025-05-29	14.4	19.2	12.1	Rain
2025-05-30	0.2	18.7	10	Mix of Sun and Cloud
2025-05-31	14.8	16.5	10.5	Rain

Note: Data retrieved from the Stantec Woodfibre site weather station.

From May 25 - 31, the East Sedimentation Pond received non-contaminated contact water from Area 1100 North Collection Sump, the MOF sump, and recirculated water from the East WWTP and E500GPM TSS settling system (Appendix A, Figure 2). Non-contaminated contact waters from Area 4100 Collection Sump were directed to the West Sedimentation Pond, as well as recirculated water from the W500GPM and ESC TSS settling systems (Appendix A, Figure 3). During the monitoring period (May 25 - 31), a total of 574 m³ of water from the East Sedimentation Pond was transferred to the West Sedimentation Pond.

Routine operation of the East WWTP continued during the monitoring period (May 25 - 31). Concrete contact waters and water from Area 1200-D sump and the hydrovac pit were 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 (May 25 - 31). Pond effluent was clarified through the E500GPM TSS settling system and recirculated to the East Sedimentation Pond on May 28, 29, 30, and 31. Effluent was not discharged to Howe Sound (station SP-E-OUT) during the monitoring period. Daily water volumes processed by the East WWTP and the East TSS settling system (E500GPM) are provided in Appendix B (Table B-6).

West Sedimentation Pond effluent was clarified through the W500GPM system each day during the monitoring period (May 25 - 31) and recirculated to the West Sedimentation Pond or used for road dust suppression. The West ESC (150 GPM) TSS settling system was not operational. Effluent was not discharged to Howe Sound (station SP-W-OUT) during the monitoring period. From May 25 - 31, at total of 406 m³ clarified effluent was reclaimed (*i.e.*, used for road dust suppression). Daily clarified effluent volumes from the TSS settling systems and volumes of reclaimed water are provided in Appendix C (Table C-5).

2. Monitoring Summary

The locations of compliance and supplementary 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 compliance and supplementary monitoring stations are currently being monitored:

- Non-contact diversion ditch outlet monitoring stations (OUT-01, OUT-02, OUT-06, and OUT-11). East Creek water was temporarily diverted to OUT-11 on September 17, 2024, and is monitored at the inlet to temporary diversion (station SW-04), therefore OUT-11 is not currently monitored.
- 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, E500GPM-IN, E500GPM-OUT, WWTP-E-IN, WWTP-E-OUT, SP-W-IN, ESC-W-IN, ESC-W-OUT, W500GPM-IN and W500GPM-OUT).
- Effluent compliance stations (SP-E-OUT and SP-W-OUT).
- 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.

Two flocculant-based TSS settling systems are used at the West Sedimentation Pond (ESC and W500GPM) as described in Section 1.1. Influent and effluent are monitored for each system at stations ESC-W-IN, ESC-W-OUT, W500GPM-IN and W500GPM-OUT. One TSS settling system (E500GPM) is used at the East Sedimentation Pond (Section 1.1). Influent and effluent are monitored at stations E500GPM-IN and E500GPM-OUT, respectively. The TSS settling system stations are supplemental to the PE-111578 monitoring requirements and are monitored at the discretion of field staff.

Water quality was monitored at stations IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, WQR2, WWTP-E-IN, WWTP-E-OUT, SP-E-IN, E500GPM-IN, E500GPM-OUT, SP-W-IN, W500GPM-IN, and W500GPM-OUT during the monitoring period (May 25 - 31). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (May 25 - 31) were met.

Daily field parameters and a weekly analytical sample were not collected at the east and west catchment effluent stations (SP-E-OUT and SP-W-OUT, respectively) as there was no discharge to Howe Sound during the monitoring period (May 25 - 31). 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.

Table 2: **Summary of PE-111578 Monitoring Samples Collected May 25 - 31.**

May 25, 2025 WWTP-E-OT Fast WWTP at he forflown monitored at cell 1 of the pond West 50 GPM 185 seeking section at the different motive box WWTP-E-OT WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive at cell 1 of the pond WWTP-E-OT Fast WWTP at he forflown motive box WWTP-E-OT Fast WWTP at he forflown m	Sampling Date	Sample	Description	Parameters Tested	Monitoring Frequency
May 25, 2025 WATPE-CUT	_		East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
SP-W-IN West So Gimentation Food influent anonizored a cell of the pond West SO GFM TSS settling system at the efficient meter box SP-EIN Fast Solitary system at the efficient meter box WSOGPM-IN West SO GFM TSS settling system at the efficient meter box WSOGPM-IN West SO GFM TSS settling system at the efficient meter box WSOGPM-IN West SO GFM TSS settling system at the efficient meter box SP-EIN East WWTP at the influent meter box SP-EIN West SO GFM TSS settling system at the efficient meter box SP-EIN East Settlin system at the efficient meter box WWTP-EOUT East WWTP at the influent meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT West SO GFM TSS settling system at the efficient meter box WWTP-EOUT Feat WWTP at the efficient meter box WWTP-	-			Field Parameters.	D
W900GPM-OUT SPE-IN West SUG GPM ISS setting system at the influent meter box SPE-IN SPE-IN East Sedimentation Prod monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent neter box WWTP-E-IN West SOG GPM-OUT West SOG GPM-OUT SPE-IN SPE-IN SPE-IN SPE-IN SPE-IN West SOG GPM-OUT West SOG GPM-OUT SPE-IN West SOG GPM-OUT West SOG GPM-OUT SPE-IN West SOG GPM-OUT West SOG GPM-OUT SPE-IN West SOG GPM-OUT SPE-IN West SOG GPM-OUT SPE-IN West SOG GPM-IN Settling system at the influent moter box WWTP-E-OUT East WWTP at the influent moter box WWTP-E-OUT East SOG GPM-IN Settling system at the influent moter box Field Pan	May 25, 2025			Field Parameters	D
WSOGPM-OUT West SOGPM-TSS settling system at the effluent meter box Feld Parameters. WEYP-E-UR Lost WWTP at the followin neter box SP-RIN WEYP-E-OUT SP-RIN West Socimentation Pond influent monitored at cell of the pond WYTP-E-OUT SP-RIN WEST SOCIETY SE settling system at the affinent meter box WEYP-E-OUT SP-RIN WEST SOCIETY SE settling system at the affinent meter box WEYP-E-OUT SP-RIN WEST SOCIETY SE settling system at the affinent meter box WEYP-E-OUT SP-RIN WEST SOCIETY SE settling system at the affinent meter box WEST SE SETTLING SE settling system at the affinent meter box WEST SETTLING SETTLI					
SP.F.IN Fast Sedimentation Proof monitored at cell 1 of the pond WWTP-E-DUT Set WWTP at the influent meter box WWTP-E-DUT WWS SOGMAIN West SOGMAIN W				Field Parameters.	P
May 26, 2025 WWTP-E-OLT Fast WWTP at the effluent meter box SP-W-IN West Soldimentation Pound influent monitored at cell 1 of the pound West Soldimentation Pound influent monitored at cell 1 of the pound WOTP E-IN East Section Plant influent monitored at cell 1 of the pound WOTP E-IN East Section Plant influent monitored at cell 1 of the pound WOTP E-IN WEST SOLD FAST Searching system at the affiliate interer box WOTP E-IN WOSD GPM INS WEST SOLD FAST SEARCHING PLANT SEARCH PLANT SEARCH SEARCH PLANT			East Sedimentation Pond monitored at cell 1 of the pond	Field Parameters.	D
May 26, 2025 WYF) P-E-OUT East WWTP at the ellbuent meter box WSPOCPM-IN WSSOCPM-IN WS				Field Parameters.	D
WSOGPM-OUT West Soft Martiners West Soft martiners West Soft martiners West Soft martiners WWTP-E-IN West Soft martiners West Soft martiners WoodpM-OUT West Soft martiners West Soft martiners WoodpM-OUT West Soft martiners West Soft martiners WoodpM-OUT West Soft martiners WoodpM-OUT West Soft martiners W	May 26, 2025				
SP-E-IN SP-E-I				Field Parameters.	D
SPE_IN WHTP_E.IN East Switter at milless meter box WHTP_E.OUT East WWTP at the effluent meter box SPW IN WEST Solimentation Point diffuent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN WEST SOLIMENT SESSETING System at the effluent meter box WS00GPM_OWN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN WS00GPM_OWN WS00GPM_OWN East Solimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP_E-IN East Sedimentation Pond influent monitored at cell				Field Parameters.	P
WWTP-E-IN WEST SERIOR WEST AT the influent meter box SP.W.IN West Solimentation Pond influent monitored at cell 1 of the pond WEST SOLIMENT SESS striling system at the influent meter box IDZ.E1.0.5 Howe Sound IDZ station E1, 0.5 m below surface IDZ.E1.0.5 Howe Sound IDZ station E1, 0.5 m below surface IDZ.W.1.0.5 Howe Sound IDZ station E1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station E1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station E1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.0.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.5 Howe Sound IDZ station IE1, 0.5 m below surface IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ station IV.2 m above the seafloor IDZ.W.2.5 Howe Sound IDZ stat				Field Parameters.	D
SP-W-IN West Solidementation Poul influent monitored at cell 1 of the poul WS00GPM-IN West SOL GPM TSS settling system at the fillment meter box WS00GPM-IN West SOL GPM TSS settling system at the fillment meter box ITV FI D-S Howe Sound IDZ station 12: 0.5 in below surface IDW-W-D-S Howe Sound IDZ station WE, 0.5 in below surface IDW-W-D-S MWR 1-15: Howe Sound IDZ station WE, 0.5 in below surface WWR 1-15: Howe Sound IDZ station WE, 0.5 in below surface WWR 1-15: Howe Sound IDZ station WE, 0.5 in below surface WWR 1-15: Howe Sound IDZ station WE, 0.5 in below surface IDZ-E1-2 in Howe Sound IDZ station IE; 2 in below surface IDZ-E1-2 in Howe Sound IDZ station IE; 2 in below surface IDZ-E2-2 in Howe Sound IDZ station IE; 2 in below surface IDZ-E2-2 in Howe Sound IDZ station IE; 2 in below surface IDZ-E2-2 in Howe Sound IDZ station IE; 2 in below surface IDZ-W-SF Howe Sound IDZ station IE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station IDZ station WE; 2 in below surface IDZ-W-SF Howe Sound IDZ station ID		WWTP-E-IN			D
W500GPM-OT West 500 GPM TSS settling system at the influent mater box (177-H-1-0.5) West 500 GPM TSS settling system at the influent mater box (177-H-1-0.5) Howe Sound IDZ station B1; 0.5 in below surface (177-W-1-0.5) Howe Sound IDZ station W1; 0.5 in below surface (177-W-1-0.5) WOR1-0.5 Howe Sound IDZ station W2; 0.5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 1.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 1.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 1.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 1.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 1.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 2.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 2.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 2.0 5 in below surface (177-W-1-0.5) WOR1-0.5 Reference size; 2.0 5 in below surface (177-W-1-0.5) WEST BLOW (177-W-1-0.5) WEST BLO					D
WSOUGPM-OUT	_			Field Parameters.	D
WS00GPM-DCT West 500 GPM TSS settling system at the effluent meter box 1 Field Parameters. Field Parameters. WWTP-E-DCT East WWTP at the effluent meter box 1 Field Parameters. WCS00GPM-DCT East WWTP at the effluent meter box 1 Field Parameters. WCS00GPM-DCT East WWTP at the effluent meter box 1 Field Parameters. Fiel				Field Parameters.	P
IDZ-PL-2-0.5 Howe Sound IDZ station H2: 0.5 m below surface IDZ-W1-0.5 Howe Sound IDZ station W1: 0.5 m below surface WQR1-0.5 Howe Sound IDZ station W2: 0.5 m below surface WQR1-0.5 Reference site 1.0.5 m below surface WQR1-0.5 Reference site 1.0.5 m below surface WQR1-0.5 Reference site 2.0.5 m below surface IDZ-PL-1.2 m Howe Sound IDZ station H2: 2 m below surface IDZ-PL-1.5 m Howe Sound IDZ station H2: 2 m below surface IDZ-PL-1.5 m Howe Sound IDZ station E1: 2 m below surface IDZ-PL-1.5 m Howe Sound IDZ station E1: 2 m above the scaflour IDZ-PL-1.2 m Howe Sound IDZ station W2: 2 m below surface IDZ-PL-1.5 m Howe Sound IDZ station W1: 2 m above the scaflour IDZ-PL-1.2 m Howe Sound IDZ station W1: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W1: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W1: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Howe Sound IDZ station W2: 2 m above the scaflour IDZ-PL-1.5 m Field Parameters. Field P					
IDZ-W1-0.5 Howe Sound IDZ station W1: 0.5 m below surface W0R1-0.5 Holdow surface W0R1-0.5 Reference site 1: 0.5 m below surface W0R1-0.5 Reference site 2: 0.5 m below surface W0R2-0.5 Reference site 2: 0.5 m below surface IDZ-E1-2m Howe Sound IDZ station E1: 2 m below surface IDZ-E1-3m Howe Sound IDZ station E1: 2 m below surface IDZ-E1-3m Howe Sound IDZ station E1: 2 m below surface IDZ-E1-3m Howe Sound IDZ station E2: 2 m below surface IDZ-E2-3m Howe Sound IDZ station E2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station E2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W1: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W1: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-3F Howe Sound IDZ station W2: 2 m below surface IDZ-W2-3F Howe Sound IDZ station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2m Howe Sound IDZ-Station W2: 2 m below surface IDZ-W1-2	-				
May 27, 2025 MQR 20.5 Howe Sound IDZ station W2; 0.5 m below surface Metals. Chronic toxicity.				Field, Physical & General Parameters, EPHs	
WQR4-0.5 Reference site 1; 0.5 m below surface WQR2-0.5 Reference site 2; 0.5 m below surface DQR2-1.2 m Howe Sound DZ station E1; 2 m below surface DZ-E1-2 m Howe Sound DZ station E1; 2 m below surface DZ-E2-2 m Howe Sound DZ station E1; 2 m below surface DZ-E2-2 m Howe Sound DZ station E1; 2 m below surface DZ-E2-2 m Howe Sound DZ station E1; 2 m below surface DZ-E2-2 m Howe Sound DZ station W1; 2 m below surface DZ-E2-2 m Howe Sound DZ station W1; 2 m below surface DZ-W1-2 m Howe Sound DZ station W1; 2 m below surface DZ-W2-2 m Howe Sound DZ station W1; 2 m below surface DZ-W2-2 m Howe Sound DZ station W2; 2 m below surface DZ-W3-2 m Howe Sound DZ station W2; 2 m below surface DZ-W2-2 m Howe Sound DZ station W2; 2 m below surface DZ-W3-2					W ₃ , Q
IDZ-E1-2m	Aay 27, 2025		,	Metals, Chronic toxicity.	
IDZ_E1-SF					
IDX_E3_2m	_				
IDZ-E2-SF Howe Sound IDZ station E2: 2 m above the scafloor IDZ-W1-D2 m Howe Sound IDZ station W1: 2 m above the scafloor IDZ-W2-D2 m Howe Sound IDZ station W2: 2 m below surface IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound IDZ-W2-D3 m Howe Sound IDZ station W2: 2 m above the scafloor IDZ-W2-D3 m Howe Sound ID					
IDZ-W1-SF Howe Sound IDZ station W1; 2 m below surface IDZ-W1-SF Howe Sound IDZ station W2; 2 m bove the seafloor IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP IDZ-W2-SP Howe Sound IDZ station W2; 2 m below surface IDZ-W2-SP	-		,		
IDZ-W2-2m	-			Field and Physical Parameters.	\mathbf{W}_3
IDZ-W-2:m Howe Sound IDZ station W2; 2 m below surface IDZ-W-2:F					
IDZ-W2-SF Howe Sound IDZ station W2; 2 m above the seafloor					
WWTP-E-IN WWTP-E-OUT East WWTP at the influent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond WS00GPM-IN West 500 GPM TSS settling system at the influent meter box WS00GPM-OUT West 500 GPM TSS settling system at the effluent meter box Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters. Field					
WWTP-E-OUT East WWTP at the effluent meter box Field Prasmeters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Prasmeters Field Pras		SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
WWTP-E-OUT East WWTP at the effluent meter box Field Prasmeters, VF & BTEX, EPHs & PAHs, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Prasmeters Field Prasmeters Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Physical & General Parameters, VF & BTEX, EPHs & PAHS, Total, Dissolve and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters Field Para		WWTP-E-IN	East WWTP at the influent meter box		_
May 28, 2025 SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond West SOOGPM-IN West 500 GPM TSS settling system at the influent meter box West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-IN East SOO GPM TSS settling system at the effluent meter box WWTP-E-IN East SOO GPM TSS settling system at the influent meter box Field, Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters Field Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters Field Physical & General Parameters, VF & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters Field Paramete	-			Field Parameters.	D
West Sedimentation Pond influent monitored at cell 1 of the pond West 500 GPM TSS settling system at the influent meter box West 500 GPM TSS settling system at the influent meter box West 500 GPM TSS settling system at the effluent meter box West 500 GPM TSS settling system at the effluent meter box West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-OUT East WWTP at the influent meter box WWTP-E-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sodimentation Pond influent monitored at cell 1 of the pond WS00GPM-OUT West Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-B-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box SP-E-IN East Sod GPM TSS settling system at the effluent meter box East WWTP at the influent meter box East WWTP at the influent meter box Methylmercury, Dioxins & Purans. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Purans. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Purans. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Purans. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylme		WWIP-E-OUI	East wwiP at the effluent meter box	Field Dhysical & Canaral Daramators, VII	
WS00GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-OUT East Sedimentation Pond influent meter box E500GPM-IN E500GPM-IN West Sedimentation Pond influent meter box SP-W-IN WS00GPM-OUT West S00 GPM TSS settling system at the influent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-OUT East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box Field Parameters. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field, Physical & General Parameters. Field Parameters.	May 28, 2025	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	& BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs,	D, W ₁ , W ₂
WS00GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East 500 GPM TSS settling system at the effluent meter box E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN WS00GPM-IN West 500 GPM TSS settling system at the influent meter box SP-E-IN East 500 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box WWTP-E-OUT East WWTP at the influent meter box SP-W-IN WS00GPM-OUT West 500 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box WWTP-E-OUT East WWTP at the influent meter box E500GPM-IN WS00GPM-IN WS00GPM-OUT East S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box WWTP-E-OUT East S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box WWTP-E-OUT East S00 GPM TSS settling system at the influent meter box E500GPM-IN West S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box SP-W-IN West S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box SP-E-IN East S00 GPM TSS settling system at the influent meter box Field Parameters.	_	W500GPM-IN	West 500 GPM TSS settling system at the influent meter box		P
SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-IN East 500 GPM TSS settling system at the influent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-OUT East SO GPM TSS settling system at the influent meter box SP-W-IN West So GPM TSS settling system at the influent meter box SP-E-IN East WWTP at the influent monitored at cell 1 of the pond WWTP-E-OUT East WWTP at the influent meter box May 30, 2025 WWTP-E-OUT East So GPM TSS settling system at the influent meter box WSOOGPM-IN East So GPM TSS settling system at the influent meter box WWTP-E-OUT East WWTP at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box WWTP-E-OUT East WWTP at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box SP-W-IN WSTP-E-OUT East WWTP at the effluent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box E500GPM-IN East So GPM TSS settling system at the influent meter box Field Parameters.		W500GPM-OUT	West 500 GPM TSS settling system at the effluent meter box	& BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs,	P
WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN East 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-OUT East WWTP at the influent meter box E500GPM-IN East WWTP at the effluent meter box WWTP-E-OUT East 500 GPM TSS settling system at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-IN E500GPM-IN West 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the influent meter box E500GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond E500GPM-IN West Sedimentation Pond influent meter box E500GPM-IN West Sod GPM TSS settling system at the influent meter box Field Parameters.		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,	D, W ₁ , W ₂
WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN East 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box Field Parameters. WWTP-E-OUT East WWTP at the effluent meter box BESOUGPM-IN ESOUGPM-IN ESOUG		WWTP-E-IN	East WWTP at the influent meter box	Field Deremeters	D
E500GPM-IN East 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN E500GPM-IN West 500 GPM TSS settling system at the influent meter box E500GPM-IN E500GPM-IN E500GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-OUT East 500 GPM TSS settling system at the influent meter box Field Parameters. Field, Physical & General Parameters. Field, Physical & General Parameters. Field Parameters.		WWTP-E-OUT	East WWTP at the effluent meter box	rieid Farameters.	D
E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E300GPM-OUT E300GPM-IN E300GPM-IN E300GPM-OUT E300GPM-IN E300GPM-IN E300GPM-IN E300GPM-IN E300GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond E300GPM-IN E300GPM-IN E300GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West Sol GPM TSS settling system at the effluent meter box SP-W-IN West Sol GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box SP-E-IN E300GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box Field Parameters.	May 29, 2025		East 500 GPM TSS settling system at the influent meter box	Field Parameters.	P
SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-IN E500GPM-OUT East 500 GPM TSS settling system at the influent meter box E500GPM-OUT SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN W500GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-OUT West 500 GPM TSS settling system at the influent meter box Field Parameters. Field Parameters.		E500GPM-OUT	East 500 GPM TSS settling system at the effluent meter box		P
W500GPM-OUT SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-OUT East 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the influent meter box E500GPM-OUT East 500 GPM TSS settling system at the influent meter box Field Parameters. Field, Physical & General Parameters, VE & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. Field Parameters.		SP-W-IN			D
SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box East Soo GPM TSS settling system at the influent meter box East WWTP at the effluent meter box East Soo GPM TSS settling system at the influent meter box E500GPM-IN E300GPM-OUT E300GPM-OUT E300GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West Soo GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West Sodimentation Pond influent monitored at cell 1 of the pond WSF-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box Field Parameters. Field Parameters. Field Parameters. Field Parameters. Field Parameters. Field Parameters.				Field Parameters	P
WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box E500GPM-IN E500GPM-OUT East 500 GPM TSS settling system at the influent meter box E500GPM-IN E300GPM-IN E300GPM-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN W500GPM-OUT W500GPM-OUT W500GPM-OUT W500GPM-OUT W500GPM-OUT W500GPM-OUT W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box W500GPM-IN W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box Field Parameters.					
WWTP-E-OUT East WWTP at the effluent meter box WWTP-E-OUT East Soo GPM TSS settling system at the influent meter box E500GPM-IN E500GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box Field Parameters. WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-OUT East WWTP at the influent meter box Field Parameters. Field Parameters.	-		East Sedimentation Pond influent monitored at cell 1 of the pond		D
Methylmercury, Dioxins & Furans. E500GPM-IN E500GPM-OUT East 500 GPM TSS settling system at the influent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box Field Parameters. WWTP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box Field Parameters. Field Parameters.	_			& BTEX, EPHs & PAHs, Total, Dissolved	D, W_1, W_2
E300GPM-OUT East 500 GPM TSS settling system at the effluent meter box SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box Field Parameters. WWTP-E-OUT East WWTP at the effluent meter box Field Parameters.	Aay 30, 2025				
SP-W-IN West Sedimentation Pond influent monitored at cell 1 of the pond W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the influent meter box Field Parameters. SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond Field Parameters. WWTP-E-IN East WWTP at the influent meter box Field Parameters. WWTP-E-OUT East WWTP at the effluent meter box Field Parameters.	11ay 50, 2025			Field Parameters	P
W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box Field Parameters. Field Parameters.	-				
W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box Field Parameters. Field Parameters.	-			Field Parameters.	D
SP-E-IN East Sedimentation Pond influent monitored at cell 1 of the pond WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box Field Parameters.	-			Field Parameters.	P
WWTP-E-IN East WWTP at the influent meter box WWTP-E-OUT East WWTP at the effluent meter box Field Parameters.				Field Parameters	D
WWTP-E-OUT East WWTP at the effluent meter box	-				
	Acr. 21, 2025			Field Parameters.	D
SP-w-IN West Sedimentation Pond influent monitored at cell 1 of the pond Field Parameters.	1ay 31, 2025	SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	Field Parameters.	D
W500GPM-IN West 500 GPM TSS settling system at the influent meter box W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box Field Parameters.			West 500 GPM TSS settling system at the influent meter box	Field Darameters	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. M₅ spring high frequency (5-in-30) sampling for receiving environment stations.
- W_1 initial high frequency monitoring for physical parameters at WWTP and sedimentation pond influent and effluent stations. W_2 initial high frequency monitoring for all parameters at WWTP and sedimentation pond influent and effluent stations.
- W₃ initial high frequency monitoring for field and physical parameters at IDZ stations.
- P periodic monitoring for targeted parameters that is supplementary to PE-111578 requirements.
- Q quarterly chronic toxicity.

LORAX Version S

3. Water Quality Results

3.1 Screening and Reporting Overview

Water quality and flow monitoring results are screened against field quality control (QC) criteria, benchmark values, operational minimum discharge objectives (MDOs) that the WWTPs are currently being operated to meet, PE-111578 discharge limits, as well as Canadian, Federal 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.

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 $0.0001~\mu g/L$ (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 $0.0001~\mu g/L$ value is presented as a methylmercury WQG to support the interpretation of total mercury and methylmercury results.

3.2 Summary of Reported Results

Field measurements and analytical results included in this weekly report (Report #66) are listed below in Table 3. Testing for methylmercury, dioxins and furans typically requires up to four

weeks to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, WQR2 collected March 25 at 0.5 m below surface (chronic toxicity)
- IDZ-E1, IDZ-E2 and WQR1 collected May 9 (field and all analytical parameters)
- SP-E-IN, WWTP-E-IN, and WWTP-E-OUT collected May 10 (dioxins and furans)
- SW-01 and SW-04 collected May 12 (methylmercury, dioxins and furans)
- SW-02, SW-03, and SW-07 collected May 13 (methylmercury, dioxins and furans)
- SP-W-IN and W500GPM-OUT collected May 15 (dioxins and furans)
- SP-W-IN and SP-W-OUT collected May 19 (dioxins and furans)
- OUT-02 collected May 19 (methylmercury)
- OUT-01 collected May 20 (methylmercury)
- SP-E-IN, WWTP-E-IN, and WWTP-E-OUT collected May 22 (dioxins and furans)
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, WQR1, and WQR2 collected May 27 (field and all analytical parameters, chronic toxicity)
- IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2 collected May 27 (field and all analytical parameters)
- SP-W-IN and W500GPM-OUT collected May 28 (methylmercury, dioxins and furans)
- SP-E-IN and E500GPM-OUT collected May 29 (methylmercury, dioxins and furans)
- WWTP-E-IN and WWTP-E-OUT collected May 30 (methylmercury, dioxins and furans)

Table 3: Summary of Analytical Results Included in Weekly Discharge and Compliance Report #66.

Sample	Description	Sampling Date	Parameters Reported	
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface			
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	May 5, 2025	Dioxins and Furans.	
IDZ-W2-0.5	Howe Sound IDZ station W2; 0.5 m below surface	May 5, 2025	Dioxilis and Futans.	
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			
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface			
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	14 6 2025	Methylmercury, Dioxins and	
WQR1-0.5	Reference site 1; 0.5 m below surface	May 6, 2025	Furans.	
WQR1-2m	Reference site 1; 2 m below surface			
WQR1-SF	Reference site 1; 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			
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface			
IDZ-W1-2m	Howe Sound IDZ station W1; 2 m below surface	_	Field, Physical and Genera	
IDZ-W1-SF	Howe Sound IDZ station W1; 2 m above the seafloor		Parameters, Total and	
IDZ-W1-51	Howe Sound IDZ station W1; 2 in above the scarroof		Dissolved Metals,	
IDZ-W2-2m	Howe Sound IDZ station W2; 2 m below surface	May 7, 2025	Hexavalent Chromium,	
IDZ-W2-SF	Howe Sound IDZ station W2, 2 m above the seafloor	Wiay 1, 2023	PAHs, VOCs,	
WQR2-0.5	Reference site 2; 0.5 m below surface	_	Methylmercury, Dioxins	
		_	Furans.	
WQR2-2m	Reference site 2; 2 m below surface	_	T druiis.	
WQR2-SF	Reference site 2; 2 m above the seafloor			
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	May 9, 2025	Dioxins and Furans.	
W500GPM-OUT	West 500 GPM TSS settling system at the effluent meter box			
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	1.5 1.4 2025	P 15	
WWTP-E-IN	East WWTP at the influent meter box	May 14, 2025	Dioxins and Furans.	
OUT-01	East WWTP at the effluent meter box Non-contact water diversion ditch outlet		Field, Physical and General Parameters, Total and Dissolved Metals.	
IDZ-E1-0.5	Howe Sound IDZ station E1; 0.5 m below surface			
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	May 20, 2025		
IDZ-E2-SF	Howe Sound IDZ station E2; 2 m above the seafloor	11111 20, 2020	Field and Physical	
IDZ-W1-0.5	Howe Sound IDZ station W1; 0.5 m below surface		Parameters.	
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 W1; 2 in above the scarroof	_		
IDZ-W2-0.3	Howe Sound IDZ station W2; 2 m below surface			
IDZ-W2-SF	Howe Sound IDZ station W2; 2 m above the seafloor	_		
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond			
		May 22, 2025	Mathylmanayay	
WWTP-E-IN WWTP-E-OUT	East WWTP at the influent meter box East WWTP at the effluent meter box	May 22, 2025	Methylmercury.	
WWIP-E-OUI	East wwip at the effluent meter box		E. 11 DI . 1 1 C	
SP-W-IN	West Sedimentation Pond influent monitored at cell 1 of the pond	May 28, 2025	Field, Physical and Genera Parameters, Total and Dissolved Metals,	
W500GPM-OUT West 500 GPM TSS settling system at the effluent meter box			Hexavalent Chromium, PAHs, and VOCs.	
SP-E-IN	East Sedimentation Pond influent monitored at cell 1 of the pond	May 29, 2025	Field, Physical and Genera Parameters, Total and Dissolved Metals,	
E500GPM-OUT	East Sedimentation Pond 500 GPM TSS settling system at the effluent meter box		Hexavalent Chromium, PAHs, and VOCs.	
WWTP-E-IN	East WWTP at the influent meter box	May 30, 2025	Field, Physical and Genera Parameters, Total and Dissolved Metals,	
WWTP-E-OUT	East WWTP at the effluent meter box	1v1ay 50, 2025	Hexavalent Chromium, PAHs, and VOCs.	

3.3 East Catchment

The east catchment water quality monitoring results for stations at the East Sedimentation Pond, East WWTP and the authorized discharge location are discussed in this section. Results for the sedimentation pond and authorized discharge location are screened against PE-111578 discharge limits. Parameters without a discharge limit are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. East WWTP monitoring results are screened against operational MDOs which are equivalent to the PE-111578 discharge limits and the lowest applicable WQGs for parameters without discharge limits. The screened water quality results for analytical samples available at the time of reporting and for field parameters collected during the monitoring period are presented in Appendix B. Exceedances of PE-111578 discharge limits and WQGs in samples of effluent discharged to Howe Sound and results received for methylmercury, dioxins and furans are summarized below.

During the monitoring period (May 25 - 31), the TSS settling system (E500GPM) was operated on May 28, 29, 30, and 31 and produced clarified East Sedimentation Pond effluent that was recirculated to the pond. The east catchment did not discharge during the monitoring period. Daily clarified effluent volumes, East WWTP treated effluent volumes, and discharge volumes from the east catchment are listed in Appendix B, Table B-6.

Field measurements were collected May 25 - 31 at multiple influent and effluent locations, as outlined in Section 2, and are tabulated in Appendix B, Table B-5. Analytical samples collected on May 29 (stations SP-E-IN and E500GPM-OUT) and May 30 (stations WWTP-E-IN and WWTP-E-OUT) were available at the time of reporting. Screening results for east catchment contact water quality are summarized in Table B-1 and Table B-2 of Appendix B.

During the monitoring period (May 25 - 31), field measurements and analytical results for samples collected at E500GPM-OUT met discharge limits and WQGs except for total mercury on May 29 (Appendix B; Table B-2, Table B-5). Clarified effluent from the E500GPM system was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound on May 29.

Methylmercury results were available for East Sedimentation Pond influent (SP-E-IN) and East WWTP influent and effluent (WWTP-E-IN and WWTP-E-OUT, respectively) collected May 22 (as discussed in Report #65). Methylmercury met the MDO however total mercury was above the MDO in East WWTP effluent (WWTP-E-OUT) collected May 22 (Appendix B, Table B-3). East WWTP treated effluent is directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound on May 22. This item is tracked in Table 4.

Dioxin and furan results were reported for East Sedimentation Pond influent (station SP-E-IN) and East WWTP influent and effluent (WWTP-E-IN and WWTP-E-OUT, respectively) collected

May 14 (as discussed in Report #64). The lower and upper bound PCDD/F TEQ concentrations in effluent discharged from the East WWTP (WWTP-E-OUT) on May 14 were 0 pg/L and 1.17 pg/L, respectively. Results are tabulated in Appendix B, Table B-4.

3.4 West Catchment

The west catchment water quality monitoring results for stations at the West Sedimentation Pond, the TSS settling systems (ESC and W500GPM) and West WWTP monitoring stations, and the authorized discharge location are discussed in this section. Results for sedimentation pond and TSS settling system influent and effluent stations are screened against PE-111578 discharge limits. Parameters without a discharge limit are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. The screened water quality results for analytical samples and field parameters are presented 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. Exceedances of PE-111578 discharge limits and WQGs in samples of effluent discharged to Howe Sound and results received for methylmercury, dioxins and furans are summarized below.

During the monitoring period (May 25 - 31), West Sedimentation Pond effluent was directed to the TSS settling system (W500GPM) each day and clarified effluent was either recirculated to the pond or used for road dust suppression. The smaller TSS settling system (ESC) was not operational. Daily clarified effluent and discharge volumes from the west catchment are summarized in Appendix C, Table C-5.

Field measurements were collected May 25 - 31 at multiple influent and effluent locations, as outlined in Section 2, and are tabulated in Appendix C, Table C-4. Analytical samples collected May 28 (stations SP-W-IN and W500GPM-OUT) were available at the time of reporting. Screening results for west catchment contact water quality are tabulated in Table C-1 and Table C-2 of Appendix C.

During the monitoring period (May 25 - 31), field measurements and analytical results for samples collected at station W500GPM-OUT met PE-111578 discharge limits and WQGs (Appendix C; Table C-2 and Table C-4).

Dioxin and furan results were reported for West Sedimentation Pond influent (station SP-W-IN) and TSS settling system effluent (W500GPM-OUT) on May 9 (as discussed in Report #63). The lower and upper bound PCDD/F TEQ concentrations in effluent discharged from the W500GPM system (W500GPM-OUT) on May 9 were 0.0182 pg/L and 0.760 pg/L, respectively. Results are tabulated in Appendix C, Table C-3.

3.5 Non-Contact Water Diversion Ditch Outlets

Non-contact water diversion ditch samples are screened against Canadian, Federal and BC WQGs for the protection of freshwater aquatic life. The analytical results, field parameters, and WQGs are summarized in Appendix D.

East Creek was temporarily diverted to OUT-11 on September 17 to facilitate replacement of the OUT-12 culvert through which East Creek previously discharged. Only East Creek water is flowing through the OUT-11 culvert. East Creek is monitored at freshwater receiving environment station SW-04 and station OUT-11 is not monitored while the diversion is in place.

Analytical results were available at the time of reporting for the May 20 non-contact water diversion ditch outlet sample collected at station OUT-01. Parameter concentrations met WQGs except field pH (6.3), total aluminum (0.112 mg/L) and dissolved copper (0.00084 mg/L). The field pH, total aluminum and dissolved copper results are comparable to the baseline concentration ranges observed for diversion ditch water quality. The measured concentrations are considered to represent natural conditions for non-contact waters, therefore field pH, total aluminum and dissolved copper results above the WQGs are not flagged as project influenced exceedances.

3.6 Freshwater and Estuarine Water Receiving Environment

Freshwater and estuarine water receiving environment samples are screened against Canadian, Federal and BC WQGs for the protection of freshwater and estuarine aquatic life. Parameter concentrations above a WQG value, but within the range of values observed in the baseline monitoring program are considered to represent the natural condition of the water and are not flagged as a possible indicator of project influence.

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

3.7 Marine Water Receiving Environment

Marine water receiving environment samples are screened against Canadian, Federal and BC WQGs for the protection of marine water aquatic life. Parameter concentrations above a WQG value, but within the range of values observed in the baseline monitoring program or reference stations are considered to represent the natural condition of the water and not flagged as a possible indicator of project influence. Similarly, WQG exceedances at marine reference stations are considered to represent background conditions that are not influenced by the project. It is expected that 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. The analytical results, field parameters and WQGs are summarized in Appendix E.

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 May 7 at IDZ-W1, IDZ-W2 and marine reference station WQR2 as well as on May 20 at IDZ-E1, IDZ-E2, IDZ-W1, and IDZ-W2.

Parameter concentrations met WQGs except dissolved oxygen and total boron in some samples (Appendix E; Tables E-1 through E-4). In samples collected at 2 m above the seafloor at IDZ-W1 and IDZ-W2 on May 7 and at IDZ-W2 on May 20, dissolved oxygen (7.10, 7.17 and 7.72 mg/L, respectively) was below the lower limit of the WQG (8 mg/L). In samples collected at 2 m below surface and 2 m above the seafloor at IDZ and marine reference stations on May 7, total boron was above the WQG (1.2 mg/L) and ranged from 1.30 to 2.80 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 and total boron 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 and are therefore not attributed to project influence.

Methylmercury analytical results were available at the time of reporting for marine samples collected from 0.5 and 2 m below the water surface and 2 m above the seafloor on May 6 at IDZ-E1, IDZ-E2 and reference stations WQR1 and WQR2 and on May 7 at IDZ-W1, IDZ-W2 and reference station WQR2 (as discussed in Report #63). For all samples, methylmercury concentrations ranged from <0.000020 to 0.000101 μ g/L. Methylmercury results met the WQG and the corresponding total mercury results also met WQGs except in the sample collected at 2 m below the surface on May 7 at IDZ-W1 (Appendix E, Table E-5). The methylmercury (0.000101 μ g/L) and total mercury (<0.0050 μ g/L) concentrations observed May 7 at the IDZ-W1 monitoring station are within concentrations that have been observed in the pre-construction baseline monitoring program or within background ranges observed at marine reference stations and are therefore not attributed to project influence. The methylmercury results for the IDZ-W1 samples collected at 2 m below surface (IDZ-W1-2m) and at 2 m above the seafloor (IDZ-W1-SF) are being verified by the laboratory (Table 4).

Dioxins and furans analytical results were available at the time of reporting for marine samples collected from 0.5 and 2 m below the water surface and 2 m above the seafloor at stations IDZ-W1 and IDZ-W2 on May 5, at stations IDZ-E1, IDZ-E2 and reference stations WQR1 and WQR2 on May 6, and at stations IDZ-W1, IDZ-W2 and reference station WQR2 on May 7 (as discussed in Report #63). For all samples, the lower and upper bound PCDD/F TEQ concentrations ranged

from 0 to 0.285 pg/L, and 0.668 to 1.85 pg/L, respectively. The lower and upper bound PCDD/F TEQ concentrations were within the concentration ranges observed in the baseline monitoring program or within background ranges observed at marine reference stations. Results are tabulated in Appendix E, Table E-6.

4. Quality Control

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

Table 4: Weekly Report QC Evaluations and Ongoing Items

QC Procedure	Observation	Investigation/Resolution
Reporting Period (May 25 - 31, Report #66)	
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 OUT-11 outfall since September 17, 2024, to facilitate replacement of the East Creek outfall culvert (OUT-12). 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.
Pending Data	Analytical results not reported.	Analytical results, field parameters, and chronic toxicity results for receiving environment samples collected May 27 were not included with Report #66. Methylmercury, dioxins and furans results for contact water and treated water samples collected May 28, 29, and 30 were not included with Report #66. The pending results will be included in future weekly reports when available. This item remains open.
Data QC	Methylmercury results in marine environment samples higher than expected.	The methylmercury results for marine receiving environment samples collected at 2 m below surface and at 2 m above the seafloor at IDZ-W1 are being verified by the laboratory. This item remains open.
Ongoing Items from	m Previous Weekly Reports	
Report #57: Pending Data	Analytical results not reported.	Chronic toxicity results for marine receiving environment samples collected March 25 were not included with Report #66. The pending results will be included in future weekly reports when available. This item remains open. This item was first noted in Report #46 (January 8 sample) and has been updated with January 14 results (Report #47), January 24 and January 28 results (Report #49), February 5 and 6 results (Report #50), February 10 results (Report #51), February 15 and 20 results (Report #52), February 24 results (Report #53), March 8 results (Report #55), March 17 results (Report #56), April 24 results (Reports #61 and #62), May 3 results (Report #63), May 10 results (Report
Report #62: WWTP Performance Evaluation	Field pH, total copper, total mercury, total zinc, and hexavalent Cr above the MDO.	#64), May 14 results (Report #64 and #65), and May 22 results (Report #65 and #66). The total copper concentrations were 0.00809, 0.00595, 0.00895, 0.00518, 0.00542, 0.00525, 0.00450, 0.00734, and 0.00464 mg/L in samples collected at WWTP-E-OUT on January 8, 14, 24, 28, February 24, March 8, 17, April 24, and May 10, respectively, and ranged from 0.00613 to 0.0108 mg/L in four replicate samples collected on February 15. The total mercury concentrations were 0.0355, 0.185, 0.223, 0.0882, 0.0101, 0.0269, 0.0524, 0.0404, and 0.0217 μg/L in samples collected on January 24, 30, February 20, 24, April 24, May 3, May 10, May 14, and May 22, respectively, and were 0.0615 and 0.0644 mg/L in two replicate samples collected February 15. The total zinc concentrations were 0.0137, 0.0152, and 0.0156 mg/L in the samples collected on January 24, February 20 and 24, and were 0.0223 and 0.0234 mg/L in two of four replicate samples collected February 15. Hexavalent chromium concentrations were 0.00197 and 0.00166 mg/L in samples collected January 24 and 28 at WWTP-E-OUT. Field pH was 9.1, 9.2, and 9.6 in samples collected at WWTP-E-OUT on February 5, 6 and 10, respectively. As of May 10, and since February/March, field pH and total metals have been consistently meeting MDOs except total copper (April/May) and total mercury (April/May). The WWTP is not designed to treat mercury, therefore possible contact water sources of mercury are being evaluated. Treatment performance for total copper continues to be monitored; the metal removal media was scheduled for replacement on May 29 and the fresh media is expected to
Report #62: Discharge WQG Evaluation	Total mercury and methylmercury above WQG.	improve copper removal. This item remains open. Total mercury and methylmercury measured at station SP-E-OUT on April 24 (0.00851 and 0.000264 µg/L, respectively) were 2.6 times greater than the calculated WQG. Potential sources are being reviewed. This item remains open.
Report #63: Pending Data	Analytical results not reported.	Methylmercury results for receiving environment samples collected May 6 and field parameters and analytical results for receiving environment samples collected May 7 are discussed in Section 3.7 of Report #66. Dioxins and furans results for receiving environment samples collected May 5, 6, 7 and contact water and treated water samples collected May 9 are discussed in Sections 3.4 and 3.7 of Report #66. Field parameters and analytical results for receiving environment samples collected May 9 and dioxins and furans results for contact water and treated water samples collected May 10 were not included in Report #66. The pending results will be included in future weekly reports when available. This item remains open.
Report #64: Pending Data	Analytical results not reported.	Dioxins and furans results for contact water and treated water samples collected May 14 are discussed in Section 3.3 of Report #66. Methylmercury, dioxins and furans results for receiving environment samples collected May 12 and 13 and dioxins and furans results for contact water and treated water samples collected May 15 were not included with Report #66. The pending results will be included in future weekly reports when available. This item remains open.
Report #65: Discharge WQG Evaluation	Total mercury and methylmercury above WQG.	Total mercury (0.00821 and 0.00825 μ g/L) and methylmercury (0.000149 and 0.000158 μ g/L) measured in two replicate samples at station SP-W-OUT on May 19 were 1.5 to 1.6 times greater than the WQGs. Potential sources are being reviewed. This item remains open.
Report #65: Potential Project Influence	Hexavalent chromium at East Creek above WQG and the baseline concentration range.	Hexavalent chromium concentration (0.00212 mg/L) observed at the East Creek station (SW-04) on May 12 was 2.1 times greater than the WQG and 6.8 times greater than the maximum concentration observed in the pre-construction baseline monitoring program (0.00031 mg/L). Potential influences to East Creek water quality at station SW-04 are being reviewed. This item remains open.
Report #65: Pending Data	Analytical results not reported.	Analytical results and field parameters for diversion ditch outlet and receiving environment samples collected May 20 are discussed in Sections 3.5 and 3.7 of Report #66. Methylmercury results for contact water and treated water samples collected May 22 are discussed in Section 3.3 of Report #66. Methylmercury results for diversion ditch outlet samples collected May 19 and 20 and dioxins and furans results for contact water and treated water samples collected May 19 and May 22 were not included with Report #66. The pending results will be included in future weekly reports when available. This item remains open.

Notes

Result QA/QC screening includes the evaluation of field and lab QC results, comparison of total and dissolved metal results and review for modified detection limits.

Pending data are outstanding results from monitoring samples reported in the current or previous weekly reports.

Authorized works and monitoring program evaluation is an assessment of the completeness of the authorized works and monitoring program compared to PE-111578 specified or implied requirements.

WWTP performance evaluation is an assessment of WWTP effluent quality compared to operational MDOs.

Data QC indicates an evaluation of data trends or inter-parameter relationships that suggest a test result may not be representative of water quality at the time of monitoring.

Non-compliant discharge indicates exceedance of a discharge limit or a discharge that bypasses the sedimentation pond discharge location.

Potential project influence is an assessment that water quality at creek and Howe Sound baseline stations are above the baseline concentration range and may indicate project influence at these stations.

5. Closure

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

Regards,

LORAX ENVIRONMENTAL SERVICES LTD.

Holly Pelletier, B.Sc., GIT. Environmental Geoscientist Cheng Kuang, M.Sc., RPBio. Environmental Scientist

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

Appendix A: Figures and Site Images



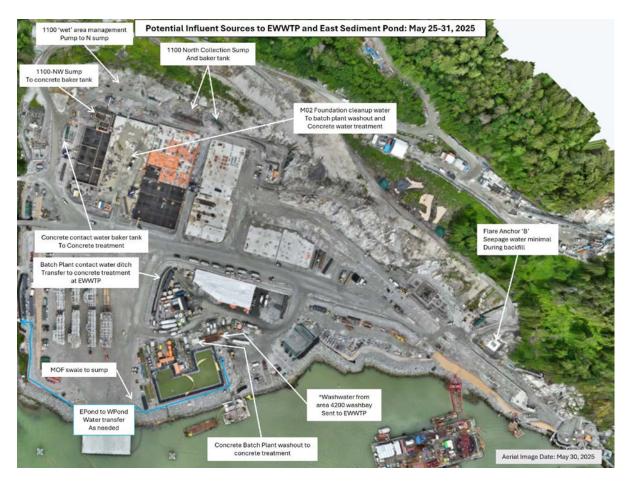


Figure 2: East Catchment contact water management facilities (May 25 - 31).



Figure 3: West Catchment contact water management facilities (May 25 - 31).

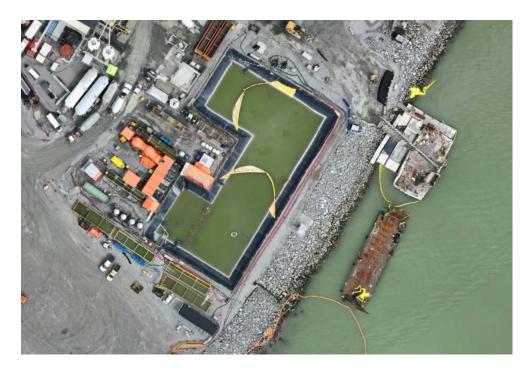


Figure 4: Aerial view of the East Sedimentation Pond (May 31, 2025). The East WWTP is located on the left side and the E500GPM TSS settling system is situated along the bottom edge of the pond.



Figure 5: Aerial view of the West Sedimentation Pond (May 30, 2025). The TSS settling systems are located to the left (W500GPM) and right (ESC) of the pond.

Appendix B: East Catchment Monitoring Results

Table B-1: East Catchment Contact Water Influent Analytical Results Received at the Time of Reporting.

					Station SP-E-IN	Station WWTP-E-IN	
		Lowest Applicable Guideline ¹		PE-	Influent	Influent WWTP-E-IN	
Parameter	Unit			111578 Discharge	SP-E-IN		
				Limit	VA25B2668-004	VA25B2819-001	
		Long Term	Short Term		2025-05-29 10:45	2025-05-30 13:30	
General Parameters							
oH - Field	pH units	_ 2	-	5.5 - 9.0	7.1	7.3	
Specific Conductivity - Field	µS/cm	-	-	-	1691	1388	
Temperature - Field	°C	-	-	-	20.0	18.6	
Salinity - Field	ppt	-	-	-	0.86	0.7	
Turbidity - Field	NTU	-	-	-	93.99	14.76	
ΓSS	mg/L	-	-	25 or 75 ⁶	49.2	9.4	
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.40	9.76	
Anions and Nutrients							
Sulphate	mg/L	-	-	-	582	444	
Chloride	mg/L	-	-	-	19	15	
Fluoride	mg/L	- 0.7.0.43	1.5	-	0.286	0.221	
Ammonia (N-NH ₃)	mg/L	8.7-9.4 ³	58-62 ³	-	0.0105	<0.0050	
Nitrite (N-NO ₂)	mg/L	2 7	- 220	-	<0.0100	<0.0050	
Nitrate (N-NO ₃)	mg/L	3.7	339	-	< 0.0500	< 0.0250	
Total Metals	/т				2.0	0.962	
Aluminum, total (T-Al)	mg/L	-	0.27 4	-	3.8	0.863	
Antimony, total (T-Sb)	mg/L	0.0105		-	0.00104	0.00138	
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00198	0.00206	
Barium, total (T-Ba)	mg/L	0.1	-	-	0.0302	0.013	
Beryllium, total (T-Be)	mg/L	0.1	-	-	0.000067	<0.000020	
Boron, total (T-B)	mg/L	1.2	-	-	0.121	0.089	
Cadmium, total (T-Cd) Chromium, total (T-Cr)	mg/L	0.00012	-	-	<0.0000650 0.0017	<0.000400 0.00132	
	mg/L						
Cobalt, total (T-Co)	mg/L	_ 2	_ 2	- 0.0042	0.00106	0.00024	
Copper, total (T-Cu)	mg/L			0.0043	0.00409	0.00287	
Iron, total (T-Fe)	mg/L	_ 2	_ 2	- 0.0025	3.21 0.00118	0.648 0.00119	
Lead, total (T-Pb)	mg/L			0.0035	0.00118	0.00119	
Manganese, total (T-Mn)	mg/L						
Mercury, total (T-Hg)	mg/L	0.000016 5	-	-	<u>0.000047</u>	<u>0.0000314</u>	
Molybdenum, total (T-Mo)	mg/L	- 0.0002	-	-	0.115	0.106	
Nickel, total (T-Ni)	mg/L	0.0083	-	-	<0.00100	0.00076	
Selenium, total (T-Se)	mg/L	0.002 0.0005	0.0037	-	0.000411 0.00014	0.000444 <0.00010	
Silver, total (T-Ag)	mg/L			-			
Thallium, total (T-Tl)	mg/L	-	-	-	0.000031	0.000027	
Uranium, total (T-U)	mg/L	_ 2	-	0.0001	0.0264	0.0269	
Vanadium, total (T-V)	mg/L	_ 2	_ 2	0.0081	0.0064	0.00355	
Zinc, total (T-Zn)	mg/L	0.0015		0.0133	0.0167	0.0170	
Hexavalent Chromium, total Dissolved Metals	mg/L	0.0015	-	-	< 0.00050	<u>0.00061</u>	
Cadmium, dissolved (D-Cd)	mg/L				< 0.0000350	< 0.0000350	
Copper, dissolved (D-Cu)		-	-	-	0.00135	0.00144	
Iron, dissolved (D-Cu)	mg/L	-	-	-	0.00133	0.00144	
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.00100	0.0006	
. ,	mg/L	-					
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.015 <0.00100	0.00812	
Nickel, dissolved (D-Ni)	mg/L	-	-	-		<0.00050	
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.198	0.167	
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00185	0.00219	
Zinc, dissolved (D-Zn)	mg/L		-	-	0.0022	0.0086	
Polycyclic Aromatic Hydrocarl					-0 000010	-0.000010	
Acenaphthene	mg/L	0.006	-	-	<0.000010	<0.000010	
Acridine	mg/L	-	-	-	<0.000010	<0.000010	
Anthracene	mg/L	-	-	-	<0.000010	<0.000010	
Benz(a)anthracene	mg/L	- 0.00001	-	-	<0.000010	<0.000010	
Benzo(a)pyrene	mg/L	0.00001	-	-	<0.000050	<0.000050	
Chrysene	mg/L	0.0001	-	-	<0.000010	<0.000010	
Fluoranthene	mg/L	- 0.012	-	-	<0.000010	<0.000010	
Fluorene	mg/L	0.012	-	-	<0.000010	<0.000010	
1-methylnaphthalene	mg/L	0.001	-	-	<0.000010	<0.000010	
2-methylnaphthalene	mg/L	0.001	-		<0.000010 <0.000050	<0.000010 <0.000050	
Naphthalene	mg/L	0.001	-	-			
Phenanthrene	mg/L	-	-	-	<0.000020 <0.000010	<0.000020 <0.000010	
Pyrene Quinoline	mg/L	-	-	-	<0.00010	<0.000010	
Quinoline Volatile Organic Compounds (mg/L	-	-	-	<0.000000	<0.000050	
Volatile Organic Compounds (Benzene		0.11			<0.00050	<0.00050	
	mg/L		-	-	<0.00050 <0.00050	<0.00050 <0.00050	
Ethylbenzene Mathyl tart butyl ather	mg/L	0.25	- 0.44	-			
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	<0.00050	
Styrene	mg/L	- 0.215	-	-	<0.00050	<0.00050	
Toluene Toluene	mg/L	0.215	-	-	<0.00040	<0.00040	
Total Xylenes	mg/L	- 0.025	-	-	<0.00050	<0.00050	
Chlorobenzene 1,2-Dichlorobenzene	mg/L mg/L	0.025 0.042	-	-	<0.00050 <0.00050	<0.00050 <0.00050	
			-	_			

Results <u>underlined in bold italics</u> 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 (May $25-May\ 31$).

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

⁴ The lowest applicable guidelines from approved or working BC wQGs, Canadian (CCVIE) wQGs and redefal wQGs.

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.

Table B-2: East Catchment Effluent Analytical Results Received at the Time of Reporting.

					Station E500GPM-OUT	Station WWTP-E-OUT	
		Lowest Applicable Guideline ¹ Long Short Term Term		PE-111578	Effluent	Effluent WWTP-E-OUT	
Parameter	Unit			Discharge	E500GPM-OUT		
				Limit	VA25B2668-001	VA25B2819-002	
					2025-05-29 10:39	2025-05-30 12:51	
General Parameters		_					
pH - Field	pH units	_ 2	-	5.5 - 9.0	7.7	6.4	
Specific Conductivity - Field	μS/cm	-	-	-	1765	1897	
Temperature - Field	°C	-	-	-	19.4	18.3	
Salinity - Field	ppt	-	-	-	0.9	0.97	
Turbidity - Field	NTU	-	-	- 75.6	3.83	3.26	
TSS F: II	mg/L	-	-	25 or 75 ⁶	<3.0	<3.0	
Dissolved Oxygen - Field Anions and Nutrients	mg/L	≥8	-	-	8.79	9.28	
Sulphate	mg/L	_	_	_	633	692	
Chloride	mg/L	_			19.7	20.8	
Fluoride	mg/L	_	1.5	_	0.301	0.259	
Ammonia (N-NH ₃)	mg/L	3.4-14 ³	23-92 ³	_	0.0074	0.0226	
Nitrite (N-NO ₂)	mg/L	-	-	-	< 0.0100	< 0.0100	
Nitrate (N-NO ₃)	mg/L	3.7	339	_	< 0.0500	< 0.0500	
Total Metals	. 6-						
Aluminum, total (T-Al)	mg/L				0.216	0.222	
Antimony, total (T-Sb)	mg/L	-	0.27 4	-	0.00117	0.00125	
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.0016	0.0014	
Barium, total (T-Ba)	mg/L		-	-	0.00643	0.00592	
Beryllium, total (T-Be)	mg/L	0.1	-	-	< 0.000040	< 0.000040	
Boron, total (T-B)	mg/L	1.2	-		0.138	0.151	
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	< 0.0000300	< 0.0000350	
Chromium, total (T-Cr)	mg/L	-	-	-	< 0.00100	< 0.00100	
Cobalt, total (T-Co)	mg/L	-	-	-	< 0.00020	< 0.00020	
Copper, total (T-Cu)	mg/L	_ 2	_ 2	0.0043	0.00208	0.00337	
Iron, total (T-Fe)	mg/L	-	-	-	0.181	0.111	
Lead, total (T-Pb)	mg/L	_ 2	_ 2	0.0035	0.000323	0.000293	
Manganese, total (T-Mn)	mg/L	-	-	-	0.00378	0.0139	
Mercury, total (T-Hg)	mg/L	0.000016 5	-	-	0.0000277	0.0000478	
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.132	0.128	
Nickel, total (T-Ni)	mg/L	0.0083	-	-	< 0.00100	< 0.00100	
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000602	0.000515	
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	< 0.000020	< 0.000020	
Thallium, total (T-Tl)	mg/L	-	-	-	0.000029	0.000031	
Uranium, total (T-U)	mg/L	-	-	-	0.0292	0.0177	
Vanadium, total (T-V)	mg/L	_ 2	-	0.0081	0.00241	0.00293	
Zinc, total (T-Zn)	mg/L	_ 2	_ 2	0.0133	< 0.0060	< 0.0060	
Hexavalent Chromium, total	mg/L	0.0015	-	-	< 0.00050	< 0.00050	
Dissolved Metals							
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	< 0.0000400	< 0.0000400	
Copper, dissolved (D-Cu)	mg/L	-	-	-	0.00119	0.00166	
Iron, dissolved (D-Fe)	mg/L	-	-	-	0.025	< 0.020	
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.000100	<0.000100	
Manganese, dissolved (D-Mn)	mg/L	-	-	-	0.00095	0.0108	
Nickel, dissolved (D-Ni)	mg/L	-	-	-	<0.00100	<0.00100	
Strontium, dissolved (D-Sr)	mg/L	-	-	-	0.198	0.171	
Vanadium, dissolved (D-V)	mg/L	-	-	-	0.00192	0.00293	
Zinc, dissolved (D-Zn)	mg/L	-	-	-	<0.0020	0.0034	
Polycyclic Aromatic Hydrocar		i i			<0.000010	<0.000010	
Acenaphthene Acridine	mg/L	0.006	-	-	<0.000010	<0.000010	
Acridine Anthracene	mg/L mg/L	-	-	-	<0.000010 <0.000010	<0.000010 <0.000010	
Anthracene Benz(a)anthracene		-	-	-	<0.00010	<0.00010	
	mg/L	0.00001		-	<0.000010	<0.000010	
Benzo(a)pyrene Chrysene	mg/L mg/L	0.0001		-	<0.000010	<0.000010	
Cnrysene Fluoranthene	mg/L mg/L	0.0001	-	-	<0.00010	<0.000010	
Fluorantnene Fluorene	mg/L mg/L	0.012		-	<0.00010	<0.00010	
1-methylnaphthalene	mg/L	0.012	<u>-</u>	-	<0.000010	<0.00010	
2-methylnaphthalene	mg/L	0.001		-	<0.000010	<0.000010	
Naphthalene	mg/L	0.001		-	<0.000010	<0.000010	
Phenanthrene	mg/L	-	_	_	<0.000030	<0.000030	
Pyrene	mg/L	-		-	<0.000020	<0.000010	
Quinoline	mg/L	_		-	<0.000010	<0.000010	
Volatile Organic Compounds (1	10.00000	10.00000	
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	0.213		-	<0.00050	<0.00040	
						<0.00050	
Chlorobenzene	mg/L	0.025	-	_	< 0.00050	<() (100.050)	

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.

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

The East Catchment did not discharge during the monitoring period (May 25 – May 31).

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 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.

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 Gu	ideline ¹				0.0001 2	$0.012 - 0.014^{3,4}$
Station	Water Type	Sample ID	Lab ID	Sampling Date		
Influent						
SP-E-IN	Influent	SP-E-IN	VA25B1983-003	2025-05-22	<u>0.000204</u>	<u>0.0651</u>
WWTP-E-IN	Influent	WWTP-E-IN	VA25B1983-001	2025-05-22	<u>0.000243</u>	<u>0.0652</u>
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA25B1983-002	2025-05-22	0.000093	0.0217 ⁵

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.

Non-detect results are screened using the detection limit value.

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

Parameter Unit					Lower Bound PCDD/F TEQ pg/L	Upper Bound PCDD/F TEQ pg/L
Station	Water Type	Sample ID	Lab ID	Sampling Date	10	10
Influent						
SP-E-IN	Influent	SP-E-IN	VA25B1185-001	2025-05-14	0.0145	0.776
WWTP-E-IN	Influent	WWTP-E-IN	VA25B1185-002	2025-05-14	0.0326	1.16
Effluent						
WWTP-E-OUT	Effluent	WWTP-E-OUT	VA25B1185-003	2025-05-14	0	1.17

Notes:

PCDD = polychlorinated dibenzodioxins (dioxins)

PCDF = polychlorinated dibenzofurans (furans)

Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).

Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

Table B-5: East Catchment Field Measurements Collected During the Monitoring Period (May 25 - 31).

Parameter			Temp.	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pН	Specific Conductivity	Visibility of Sheen
Unit			°C	mg/Ĺ	ppt	NTU	NTU mg/L - 25 or 75 ⁶	s.u.	μS/cm	of Sheen
PE-111578 Dischar	ge Limit		-	-	-	-		5.5 - 9.0	-	-
Lowest Applicable			-	≥8	-	-	_ 2	_ 2	-	-
Station ID	Water Type	Date								
Influent 4										
SP-E-IN	Influent	2025-05-25 14:33	20.0	11.89	1.06	3.11	5.3	6.7	2073	No
SP-E-IN	Influent	2025-05-26 13:26	18.9	10.68	0.92	28.89	24.5	6.8	1809	No
SP-E-IN	Influent	2025-05-27 12:49	19.2	11.80	0.90	19.30	17.4	6.7	1776	No
SP-E-IN	Influent	2025-05-28 12:57	21.6	10.08	0.75	9.82	10.3	6.7	1493	No
SP-E-IN	Influent	2025-05-29 11:01	20.0	9.40	0.86	93.99	73.1	7.1	1691	No
SP-E-IN	Influent	2025-05-30 14:04	19.4	10.75	0.91	7.86	8.9	7.5	1787	No
SP-E-IN	Influent	2025-05-31 14:59	17.4	10.02	0.88	93.01	72.4	6.8	1729	No
WWTP-E-IN	Influent	2025-05-25 14:22	19.9	12.55	1.06	3.91	5.9	7.0	2060	No
WWTP-E-IN	Influent	2025-05-26 13:17	19.1	11.4	0.93	33.84	28.2	7.2	1827	No
WWTP-E-IN	Influent	2025-05-27 12:44	19.7	12.51	0.93	14.84	14.1	6.9	1833	No
WWTP-E-IN	Influent	2025-05-28 12:27	21.5	15.08	0.94	11.13	11.3	6.9	1852	No
WWTP-E-IN	Influent	2025-05-29 10:43	19.7	9.42	0.89	25.31	21.9	7.4	1758	No
WWTP-E-IN	Influent	2025-05-30 13:30	18.6	9.76	0.70	14.76	14.0	7.3	1388	No
WWTP-E-IN	Influent	2025-05-31 14:46	17.5	10.14	0.86	76.86	60.3	7.0	1697	No
E500GPM-IN	Influent	2025-05-29 10:56	19.9	9.41	0.90	11.52	11.6	7.5	1763	No
E500GPM-IN	Influent	2025-05-30 14:06	19.6	11.65	0.89	16.82	15.5	7.4	1751	No
Effluent ⁵										
WWTP-E-OUT	Effluent	2025-05-25 14:26	18.8	8.77	1.12	1.91	4.4	6.2	2177	No
WWTP-E-OUT	Effluent	2025-05-26 13:20	18.5	9.11	1.04	2.72	5.0	6.3	2028	No
WWTP-E-OUT	Effluent	2025-05-27 12:37	18.6	8.56	0.98	5.75	7.3	6.4	1917	No
WWTP-E-OUT	Effluent	2025-05-28 12:30	19.6	9.13	0.99	5.04	6.8	6.2	1935	No
WWTP-E-OUT	Effluent	2025-05-29 10:49	20.3	8.16	0.96	3.60	5.7	6.4	1886	No
WWTP-E-OUT	Effluent	2025-05-30 12:51	18.3	9.28	0.97	3.26	5.4	6.4	1897	No
WWTP-E-OUT	Effluent	2025-05-31 14:42	17.3	9.33	0.95	3.43	5.6	6.4	1862	No
E500GPM-OUT	Effluent	2025-05-29 10:39	19.4	8.79	0.90	3.83	5.9	7.7	1765	No
E500GPM-OUT	Effluent	2025-05-30 14:00	19.6	10.48	0.88	7.55	8.6	7.7	1742	No

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.

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.

⁴ Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond.

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 μ g/L.

⁴ When MeHg ≤ 0.5% of total Hg, BC WQG = 0.02 μg/L. When MeHg > 0.5% of total Hg, BC WQG = 0.0001/(MeHg/Total Hg). Detection limit values are used to calculate the WQG for result reported as not detected.

⁵ East WWTP treated effluent is directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound on May 22.

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

⁵ There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (May 25 – May 31), therefore daily field measurements for SP-E-OUT were not collected on those days

⁶The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions.

East Catchment Daily Discharge Volumes for the Monitoring Period (May 25 - 31). **Table B-6:**

	East Sedimentation Pond Effluent	Transfer to West Sedimentation Pond	East TSS Settling System (E500GPM) Clarified Effluent (Station E500GPM-OUT)	East WWTP Treated Effluent (Station WWTP-E-OUT)	Discharge to Howe Sound (Station SP-E-OUT)
Unit	m ³	m ³	m^3	m ³	m ³
PE-111578 Discharge Limit	_ 1	_ 1	_ 1	1100	_ 1
Date					
2025-05-25	0	0	0	630 ³	0
2025-05-26	0	0	0	840 ³	0
2025-05-27	0	574	0	652 ³	0
2025-05-28	0	0	790 ²	570 ³	0
2025-05-29	0	0	1,796 ²	756 ³	0
2025-05-30	0	0	2,084 ²	665 ³	0
2025-05-31	0	0	1,253 ²	647 ³	0

Notes:

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

The annual average authorized discharge rate from the East Sedimentation Pond is 650 m³/day. As noted in PE-111578 Condition 2.1.4, the actual discharge rate may deviate from the annual average rate due to annual variations in precipitation amounts within the catchment area. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.

E500GPM clarified effluent is discharged to Howe Sound or recirculated to the East Sedimentation Pond based on operational considerations. Therefore, the E500GPM clarified effluent volume is generally higher than the volume discharged to Howe Sound. The E500GPM was operational during the monitoring period (May 25 – May 31) from May 28 through May 31.

East WWTP treated effluent was recirculated to the East Sedimentation Pond.

Appendix C: West Catchment Monitoring Results

Table C-1: West Catchment Contact Water Influent Analytical Results Received at the Time of Reporting.

Parameter	Unit	Lowest A	PE-111578 Discharge Limit	Station SP-W-IN Influent SP-W-IN	
		Long Term	Short Term		VA25B2498-004 2025-05-28 14:55
General Parameters		Long Term	Short Term		2025-05-26 14:5.
pH - Field	pH units	_ 2	-	5.5 - 9.0	8.2
Specific Conductivity - Field	μS/cm	-	-	-	1255
Temperature - Field	°C	-	-	-	22.9
Salinity - Field	ppt	-	-	-	0.65
Turbidity - Field	NTU	-	-	-	15.79
TSS	mg/L	-	-	25 or 75 ⁶	16.7
Dissolved Oxygen - Field	mg/L	≥8	-	-	10.47
Anions and Nutrients					
Sulphate	mg/L	-	-	-	401
Chloride	mg/L	-	-	-	17.9
Fluoride	mg/L	-	1.5	-	0.268
Ammonia (N-NH ₃)	mg/L	0.62 3	4.2 3	-	0.0138
Nitrite (N-NO ₂)	mg/L	-	-	-	0.0072
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.0963
Total Metals	σ.		I		0.000
Aluminum, total (T-Al)	mg/L	-	- 0.27.4	-	0.869
Antimony, total (T-Sb)	mg/L	- 0.0125	0.27 4	-	0.00102
Arsenic, total (T-As)	mg/L	0.0125	0.0125	-	0.00154
Barium, total (T-Ba)	mg/L	-	-	-	0.0113
Beryllium, total (T-Be)	mg/L	0.1	-	-	<0.000020
Boron, total (T-B)	mg/L	1.2	-	-	0.034
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.0000400
Chromium, total (T-Cr)	mg/L	-	-	-	0.00076
Cobalt, total (T-Co)	mg/L	- 2	-	- 0.0042	0.00027
Copper, total (T-Cu)	mg/L	_ 2	_ 2	0.0043	0.00233
Iron, total (T-Fe)	mg/L	_ 2	_ 2	-	0.759
Lead, total (T-Pb)	mg/L	- 2	_	0.0035	0.00159
Manganese, total (T-Mn)	mg/L	- 0.000165	-	-	0.0277
Mercury, total (T-Hg)	mg/L	0.000016 5	-	-	0.0000069
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.0977
Nickel, total (T-Ni)	mg/L	0.0083	-	-	0.00051
Selenium, total (T-Se)	mg/L	0.002	- 0.0025	-	0.000362
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	<0.000010
Thallium, total (T-Tl)	mg/L	-	-	-	0.000034
Uranium, total (T-U)	mg/L	_ 2	-	-	0.0237
Vanadium, total (T-V)	mg/L	_ 2	_ 2	0.0081	0.00279
Zinc, total (T-Zn) Hexavalent Chromium, total	mg/L	0.0015		0.0133	0.0054 <0.00050
Dissolved Metals	mg/L	0.0013	-	-	<0.00030
Cadmium, dissolved (D-Cd)	mg/L				<0.000300
Copper, dissolved (D-Cu)	mg/L		_	-	0.001
Iron, dissolved (D-Fe)	mg/L mg/L	<u> </u>	_		< 0.010
Lead, dissolved (D-Pb)	mg/L mg/L	<u> </u>	_		0.000053
Manganese, dissolved (D-Mn)	mg/L	<u> </u>	_		0.00102
Nickel, dissolved (D-Ni)	mg/L mg/L	<u> </u>	_		<0.00102
Strontium, dissolved (D-Sr)	mg/L mg/L	<u>-</u>	-	-	0.143
Vanadium, dissolved (D-V)	mg/L	<u>-</u>	-	-	0.0016
Zinc, dissolved (D-Zn)	mg/L	<u>-</u>	-	-	<0.0010
Polycyclic Aromatic Hydrocarb			<u> </u>	-	\U.UU1U
Acenaphthene	mg/L	0.006	_	-	<0.000010
Acridine	mg/L mg/L	-	-	_	<0.000010
Anthracene	mg/L	<u>-</u>	_	-	<0.000010
Benz(a)anthracene	mg/L mg/L	-	_	-	<0.000010
Benzo(a)pyrene	mg/L mg/L	0.00001	_	-	<0.000010
Chrysene	mg/L 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 (V					
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
		0.042			< 0.00050

Results <u>underlined in bold italics</u> exceed the applicable long-term water quality guideline for the protection of marine water aquatic life. <u>Shaded</u> 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 West Sedimentation Pond Discharge Limit.

The West Catchment did not discharge during the monitoring period (May 25 – May 31).

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 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.

Table C-2: West Catchment Contact Water Effluent Analytical Results Received at the Time of Reporting.

Parameter	Unit		applicable eline ¹	PE-111578	W500GPM-OUT Effluent W500GPM-OUT VA25B2498-001 2025-05-28 13:40	
Parameter	Unit	Guiu	eille -	Discharge Limit		
			GI (F)			
General Parameters		Long Term	Short Term			
oH - Field	pH units	_ 2	_	5.5 - 9.0	8.1	
Specific Conductivity - Field	µS/cm	_	_	-	1304	
Femperature - Field	°C	_	_	-	22.4	
Salinity - Field	ppt	-	-	-	0.65	
Furbidity - Field	NTU	-	-	-	2.65	
ΓSS	mg/L	-	-	25 or 75 ⁶	3.5	
Dissolved Oxygen - Field	mg/L	≥8	-	-	9.86	
Anions and Nutrients						
Sulphate	mg/L	-	-	-	399	
Chloride	mg/L	-	-	-	17.8	
Fluoride	mg/L	- 0.07.3	1.5	-	0.265	
Ammonia (N-NH ₃)	mg/L	0.97 ³	6.4 ³	-	0.0326	
Nitrite (N-NO ₂)	mg/L	- 2.7	- 220	-	0.0074	
Nitrate (N-NO ₃)	mg/L	3.7	339	-	0.102	
Total Metals	- m a /I				0.141	
Aluminum, total (T-Al)	mg/L	-	0.27 4	-	0.141 0.00105	
Antimony, total (T-Sb) Arsenic, total (T-As)	mg/L mg/L	0.0125	0.27 4	-	0.00105	
Barium, total (T-Ba)	mg/L mg/L	0.0125	0.0125	-	0.00145	
Beryllium, total (T-Be)	mg/L mg/L	0.1	-	-	<0.00419	
Boron, total (T-Be)	mg/L	1.2	-	_	0.03	
Cadmium, total (T-Cd)	mg/L	0.00012	-	-	<0.000300	
Chromium, total (T-Cr)	mg/L mg/L	- 0.00012	-	-	<0.00050	
Cobalt, total (T-Co)	mg/L mg/L	-	_	_	<0.00010	
Copper, total (T-Cu)	mg/L mg/L	_ 2	_ 2	0.0043	0.0010	
Iron, total (T-Fe)	mg/L	_	-	-	0.07	
Lead, total (T-Pb)	mg/L	_ 2	_ 2	0.0035	0.000267	
Manganese, total (T-Mn)	mg/L	-	-	-	0.00395	
Mercury, total (T-Hg)	mg/L	0.000016 5	-	-	0.00000383	
Molybdenum, total (T-Mo)	mg/L	-	-	-	0.107	
Nickel, total (T-Ni)	mg/L	0.0083	-	-	< 0.00050	
Selenium, total (T-Se)	mg/L	0.002	-	-	0.000346	
Silver, total (T-Ag)	mg/L	0.0005	0.0037	-	< 0.000010	
Thallium, total (T-Tl)	mg/L	-	-	-	0.000029	
Uranium, total (T-U)	mg/L	-	-	-	0.0245	
Vanadium, total (T-V)	mg/L	_ 2	-	0.0081	0.00175	
Zinc, total (T-Zn)	mg/L	_ 2	_ 2	0.0133	< 0.0030	
Hexavalent Chromium, total	mg/L	0.0015	-	-	< 0.00050	
Dissolved Metals	/т				-0.0000250	
Cadmium, dissolved (D-Cd)	mg/L	-	-	-	<0.0000250	
Copper, dissolved (D-Cu) Iron, dissolved (D-Fe)	mg/L	-	-	-	0.00085	
Lead, dissolved (D-Pb)	mg/L	-	-	-	<0.010 <0.000050	
Manganese, dissolved (D-Mn)	mg/L mg/L	-	-	-	0.00042	
Nickel, dissolved (D-Ni)	mg/L	-	_	-	<0.00042	
Strontium, dissolved (D-Sr)	mg/L	-	_	-	0.148	
Vanadium, dissolved (D-V)	mg/L mg/L	-	_	_	0.00159	
Zinc, dissolved (D-Zn)	mg/L	_	_	_	< 0.0010	
Polycyclic Aromatic Hydrocar					νο.σστο	
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 (0.11			0.000==	
Benzene	mg/L	0.11	-	-	<0.00050	
Ethylbenzene	mg/L	0.25	- 0.44	-	<0.00050	
Methyl-tert-butyl-ether	mg/L	5	0.44	-	<0.00050	
Styrene	mg/L	0.215	-	-	<0.00050	
Toluene Total Vulonas	mg/L	0.215	-	-	<0.00040	
Total Xylenes	mg/L	0.025	-	-	<0.00050	
Chlorobenzene	mg/L	0.025	-	-	<0.00050	
1,2-Dichlorobenzene	mg/L	0.042	-	-	< 0.00050	

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 West Sedimentation Pond Discharge Limit.

The West Catchment did not discharge during the monitoring period (May 25 – May 31).

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 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.

Table C-3: West Catchment Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

Parameter	Parameter								
Unit					pg/L	pg/L			
Station	Water Type	Sample ID	Lab ID	Sampling Date					
Influent									
SP-W-IN	Influent	SP-W-IN	VA25B0797-004	2025-05-09	0.00333	0.871			
Effluent									
W500GPM-OUT	Effluent	W500GPM-OUT	VA25B0797-001	2025-05-09	0.0182	0.760			

Notes:

PCDD = polychlorinated dibenzodioxins (dioxins)

PCDF = polychlorinated dibenzofurans (furans)

TEQ = toxic equivalency

Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).

Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit.

West Catchment Field Measurements Collected During the Monitoring Period (May 25 - 31).

Parameter			Temperature	Dissolved Oxygen (DO)	Salinity	Turbidity	Estimated TSS ³	pН	Specific Conductivity	Visibility
Unit			°C	mg/L	ppt	NTU	mg/L	s.u.	μS/cm	of Sheen
PE-111578 Dischar	ge 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	2025-05-25 14:48	20.9	11.18	0.62	10.88	11.1	7.9	1240	No
SP-W-IN	Influent	2025-05-26 13:44	20.0	10.16	0.56	37.61	31.0	8.1	1134	No
SP-W-IN	Influent	2025-05-27 13:51	21.2	11.39	0.72	12.42	12.3	7.8	1432	No
SP-W-IN	Influent	2025-05-28 15:04	22.9	10.47	0.65	15.79	14.8	8.2	1255	No
SP-W-IN	Influent	2025-05-29 15:27	21.6	9.66	0.63	19.66	17.7	8.3	1263	No
SP-W-IN	Influent	2025-05-30 14:25	20.2	9.74	0.64	26.49	22.8	8.3	1269	No
SP-W-IN	Influent	2025-05-31 10:07	17.9	9.06	0.61	33.92	28.3	8.1	1212	No
W500GPM-IN	Influent	2025-05-25 14:53	20.6	11.94	0.63	8.25	9.2	7.8	1253	No
W500GPM-IN	Influent	2025-05-26 13:50	20.2	10.43	0.57	24.25	21.1	8.1	1136	No
W500GPM-IN	Influent	2025-05-27 13:43	21.4	10.15	0.62	18.92	17.1	8.1	1239	No
W500GPM-IN	Influent	2025-05-28 14:48	23.7	10.88	0.66	17.67	16.2	8.2	1313	No
W500GPM-IN	Influent	2025-05-29 15:23	21.1	9.68	0.64	18.01	16.4	8.3	1279	No
W500GPM-IN	Influent	2025-05-30 14:35	20.4	9.79	0.64	20.81	18.5	8.4	1270	No
W500GPM-IN	Influent	2025-05-31 9:06	18.7	8.96	0.63	19.69	17.7	8.2	1253	No
Effluent 5										
W500GPM-OUT	Effluent	2025-05-25 14:59	21.3	9.40	0.63	2.99	5.2	7.9	1254	No
W500GPM-OUT	Effluent	2025-05-26 13:58	20.4	9.15	0.56	5.24	6.9	8.0	1134	No
W500GPM-OUT	Effluent	2025-05-27 13:47	21.1	8.88	0.59	3.68	5.7	8.1	1192	No
W500GPM-OUT	Effluent	2025-05-28 13:31	22.4	9.86	0.65	2.65	5.0	8.1	1304	No
W500GPM-OUT	Effluent	2025-05-29 15:34	21.2	8.73	0.64	3.14	5.3	8.2	1277	No
W500GPM-OUT	Effluent	2025-05-30 14:32	20.1	9.43	0.63	6.33	7.7	8.3	1263	No
W500GPM-OUT	Effluent	2025-05-31 8:44	18.4	8.80	0.63	7.25	8.4	8.0	1255	No
W500GPM-OUT	Effluent	2025-05-31 9:01	18.2	8.92	0.63	5.69	7.2	8.0	1256	No

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 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.

The wQG was not evaluated for parameters with discharge mints.

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

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

There was no discharge at the authorized discharge location (SP-W-OUT) during the monitoring period (May 25 – May 31), therefore daily field measurements for SP-W-OUT were not collected on

⁶The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions.

Table C-5: West Catchment Daily Discharge Volumes for the Monitoring Period (May 25 - 31).

	West Sedimentation Pond Effluent	West TSS Settling System (W500GPM) Clarified Effluent (Station W500GPM-OUT)	West TSS Settling System (ESC) Clarified Effluent (Station ESC-W-OUT)	Water Reclaimed for Dust Suppression (Station W500GPM-OUT)	West WWTP Treated Effluent ¹ (Station WWTP-W-OUT)	Discharge to Howe Sound (Station SP-W-OUT)
Unit	m ³	\mathbf{m}^3	m^3	m ³	m ³	m ³
PE-111578 Discharge Limit	_ 2	_ 2	_ 2	_ 2	120	_ 2
Date						
2025-05-25	0	1,784 ³	0	104	0	0
2025-05-26	0	2,175 ³	0	9	0	0
2025-05-27	0	1,843 3	0	63	0	0
2025-05-28	0	2,196 ³	0	150	0	0
2025-05-29	0	2,197 ³	0	18	0	0
2025-05-30	0	2,198 ³	0	54	0	0
2025-05-31	0	2,198 ³	0	7	0	0

Notes:

Results in orange text exceeded 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 The annual average authorized discharge rate from the West Sedimentation Pond is 310 m³/day. As noted in PE-111578 Condition 2.1.4, the actual discharge rate may deviate from the annual average rate due to annual variations in precipitation amounts within the catchment area. Therefore, the annual average authorized discharge rate is not evaluated as a discharge limit.

³ W500GPM clarified effluent is discharged to Howe Sound, recirculated to the West Sedimentation Pond or is reclaimed for road dust suppression based on operational considerations. Therefore, the W500GPM clarified effluent volume may be higher than the volume discharged to Howe Sound at station SP-W-OUT. The W500GPM operated each day during the monitoring period (May 25 – May 31).

⁴ The ESC system was not operational during the monitoring period (May 25 – May 31).

Appendix D: Non-Contact Water Diversion Ditch Outlets Results

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

Parameter	Unit	Lowest Applica	Station OUT-01 Non-Contact Water Diversion Ditch Outle OUT-01	
		Long Term	Short Term	VA25B1692-001 2025-05-20 15:25
General Parameters				2020 00 20 10020
pH - Field	pH units	6.5 - 9.0	-	<u>6.3</u>
Specific Conductivity - Field	μS/cm	-	-	23
Temperature - Field	°C	-	-	9.9
Salinity - Field	ppt	-	-	0.01
Turbidity - Field	NTU	-	-	1.34
TSS	mg/L	0		<3.0
Dissolved Oxygen - Field Anions and Nutrients	mg/L	>=8	>=5	12.21
Sulphate ²	mg/L	128		2.25
Chloride	mg/L mg/L	120	600	<0.50
Fluoride ²	mg/L	-	0.40	<0.020
Ammonia (N-NH ₃) ²	mg/L	1.86	25.7	0.0062
Nitrite (N-NO ₂) ²	mg/L	0.02	0.06	< 0.0010
Nitrate (N-NO ₃)	mg/L	3	32.8	0.104
Total Metals	8-		22.0	
Aluminum, total (T-Al) ²	mg/L	0.033	-	0.112
Antimony, total (T-Sb)	mg/L	0.074	-	< 0.00010
Arsenic, total (T-As)	mg/L	0.005	-	0.00012
Barium, total (T-Ba)	mg/L	1	-	0.00445
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	0.00018	< 0.0000050
Chromium, total (T-Cr) 4	mg/L	0.001	-	< 0.00050
Cobalt, total (T-Co)	mg/L	0.001	0.11	< 0.00010
Copper, total (T-Cu)	mg/L	-	-	0.00082
ron, total (T-Fe)	mg/L	0.3	1	0.025
Lead, total (T-Pb)	mg/L	-	-	0.000059
Manganese, total (T-Mn) ²	mg/L	0.768	0.816	0.00247
Mercury, total (T-Hg) ³	mg/L	0.00002	-	0.00000204
Molybdenum, total (T-Mo)	mg/L	0.073	46	0.000337
Nickel, total (T-Ni) ²	mg/L	0.025	-	<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	0.033	<0.000010
Uranium, total (T-U) Vanadium, total (T-V)	mg/L	0.0085		0.000084 <0.00050
Zinc, total (T-Zn)	mg/L mg/L	0.12	-	<0.0030
Hexavalent Chromium, total	mg/L mg/L	0.001	-	<0.0030
Dissolved Metals	IIIg/L	0.001	-	-
Cadmium, dissolved (D-Cd) ²	mg/L	0.000036	0.000049	<0.000050
Copper, dissolved (D-Cu) ²	mg/L	0.00020	0.00061	<u>0.00084</u>
ron, dissolved (D-Fe)	mg/L	-	0.35	0.04
Lead, dissolved (D-Pb) ²	mg/L	0.0024	-	0.000104
Manganese, dissolved (D-Mn) ²	mg/L	0.31	1.97	0.00263
Nickel, dissolved (D-Ni) ²	mg/L	0.00070	0.012	< 0.00050
Strontium, dissolved (D-Sr)	mg/L	2.5	-	0.0132
Vanadium, dissolved (D-V)	mg/L	-	-	< 0.00050
Zinc, dissolved (D-Zn) ²	mg/L	0.0086	0.010	0.0010
Polycyclic Aromatic Hydrocarb				
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	-	-
-methylnaphthalene	mg/L	-	-	-
-methylnaphthalene Naphthalene	mg/L mg/L	0.001	0.001	-
Naphthalene Phenanthrene	mg/L mg/L	0.001	0.001	<u>-</u>
Pyrene	mg/L mg/L	0.0003	-	-
Quinoline	mg/L mg/L	0.0002	-	-
Volatile Organic Compounds (V		0.005		-
Benzene	mg/L	0.04	_	-
Ethylbenzene	mg/L mg/L	0.09	-	<u>-</u>
Methyl-tert-butyl-ether	mg/L	10	3.4	_
Styrene	mg/L	0.072	-	-
Foluene	mg/L	0.0005	-	-
Total Xylenes	mg/L	0.03	-	-
	mg/L	-	_	-
Chlorobenzene	IIIg/L	-		

Results <u>underlined in bold italics</u> 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.

The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

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.

 $^{^3}$ When MeHg $\leq 0.5\%$ of total Hg, BC WQG = 0.00002 mg/L.

⁴ 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.

Appendix E: Marine Water Receiving Environment Results

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

					Station IDZ-W1			Station IDZ-W2	
				0.5 m Below	2 m Below	2 m Above	0.5 m Below	2 m Below	2 m Above
		Lowest A		Surface	Surface	Seafloor	Surface	Surface	Seafloor
Parameter	Unit	Guide	eline ¹	IDZ-W1-0.5	IDZ-W1-2m	IDZ-W1-SF	IDZ-W2-0.5	IDZ-W2-2m	IDZ-W2-SF
				VA25B0499-	VA25B0499-	VA25B0499-	VA25B0499-	VA25B0499-	VA25B0499-
				001 2025-05-07	002 2025-05-07	003 2025-05-07	004 2025-05-07	005 2025-05-07	006 2025-05-07
		Long Term	Short Term	13:05	13:25	13:35	12:05	12:20	12:30
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.76	8.13	7.50	8.09	8.10	7.49
Specific Conductivity - Field	µS/cm	-	-	11899	26128	31756	11018	16665	31716
Temperature - Field	°C	-	-	11.4	11.8	8.6	11.1	11.7	8.6
Salinity - Field	ppt	Narrative ²	-	8.69	13.45	29.69	9.5	22.01	29.75
Turbidity - Field	NTU	Narrative ²	Narrative ²	2.61	1.73	0.14	1.99	0.61	0.26
TSS	mg/L	Narrative ²	Narrative ²	2.8	5.4	<2.0	2.8	<2.0	2.0
Dissolved Oxygen - Field	mg/L	>=8	-	10.70	11.15	<u>7.10</u>	11.42	11.21	<u>7.17</u>
Anions and Nutrients									
Sulphate	mg/L	-	-	484	1070	2360	451	1130	2300
Chloride	mg/L	-	-	3670	7990	16900	3530	8650	17000
Fluoride	mg/L	-	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia (N-NH ₃)	mg/L	2-12 3	13-78 ³	0.0106	0.015	0.0402	0.0109	0.0205	0.0366
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 Metals									
Aluminum, total (T-Al)	mg/L	-	-	0.0816	0.0519	< 0.0050	0.0878	0.0502	< 0.0050
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	0.00044	0.00075	0.00167	0.0004	0.00087	0.00167
Barium, total (T-Ba)	mg/L	-	-	0.0069	0.0083	0.0089	0.0073	0.0084	0.0086
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	-	0.71	<u>1.85</u>	2.80	0.68	<u>1.49</u>	2.59
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.00004	0.000075	0.000022	0.00003	0.00008
Chromium, total (T-Cr)	mg/L	-	-	< 0.00050	<0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cobalt, total (T-Co)	mg/L	-	-	0.000083	0.000087	0.00008	0.000091	0.000096	0.000071
Copper, total (T-Cu)	mg/L	0.002	0.003	0.0006	0.00071	< 0.00050	0.00065	0.00068	< 0.00050
Iron, total (T-Fe)	mg/L	-	-	0.101	0.076	< 0.010	0.109	0.067	< 0.010
Lead, total (T-Pb)	mg/L	0.002	0.14	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.00518	0.00535	0.00137	0.00557	0.00501	0.00113
Mercury, total (T-Hg)	mg/L	0.000016 5	_	<0.000050	< 0.0000050	<0.000050	< 0.0000050	<0.0000050	< 0.0000050
Molybdenum, total (T-Mo)	mg/L	-	_	0.00233	0.00472	0.00993	0.00239	0.00494	0.00976
Nickel, total (T-Ni)	mg/L	0.0083	_	<0.00255	<0.00050	< 0.00050	< 0.00259	< 0.00050	<0.00050
Selenium, total (T-Se)	mg/L	0.003	_	<0.00050	<0.00050	<0.00080	< 0.00050	<0.00050	<0.00050
Silver, total (T-Ag)	mg/L mg/L	0.002	0.0037	<0.00030	<0.00030	<0.00010	<0.00010	<0.00010	<0.00010
Thallium, total (T-Tl)	mg/L	- 0.0003	- 0.0037	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, total (T-U)	mg/L	_	_	0.000636	0.00131	0.00258	0.000615	0.00136	0.00255
Vanadium, total (T-V)	mg/L	0.005	_	0.00064	0.00087	0.00164	0.00065	0.00092	0.00159
Zinc, total (T-Zn)	mg/L	0.003	0.055	<0.0030	<0.0030	<0.0030	<0.0030	<0.0032	<0.0030
Hexavalent Chromium, total	mg/L	0.0015	- 0.033	<0.00150	<0.00150	< 0.00150	< 0.00150	< 0.0030	< 0.00150
Dissolved Metals	mg/L	0.0013		X0.00130	<0.00130	<0.00130	VO.00130	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<0.00150
Cadmium, dissolved (D-Cd)	mg/L	_	_	<0.000020	0.000051	0.000061	0.000022	0.000028	0.000079
Copper, dissolved (D-Cu)	mg/L	_	_	<0.00050	< 0.00051	< 0.00050	< 0.00050	< 0.00050	<0.00050
Iron, dissolved (D-Fe)	mg/L	_	_	0.016	< 0.010	< 0.010	0.013	< 0.010	< 0.010
Lead, dissolved (D-Pb)	mg/L		-	<0.00010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Manganese, dissolved (D-Mn)	mg/L	_	_	0.00386	0.00318	0.00205	0.00396	0.00378	0.00212
Nickel, dissolved (D-Ni)	mg/L		_	<0.0050	<0.00518	<0.00203	<0.0050	<0.0050	<0.0050
Strontium, dissolved (D-Sr)	mg/L		-	1.59	4.35	6.47	1.56	2.66	6.36
Vanadium, dissolved (D-V)	mg/L	_	_	0.00051	0.00083	0.00179	0.0005	0.00066	0.00179
Zinc, dissolved (D-Zn)	mg/L	-	_	< 0.0010	<0.0010	<0.0010	<0.0010	0.0162	<0.0010
Polycyclic Aromatic Hydrocar			1	.5.5510	.5.5510	.5.0010	.0.0010	5.0102	.0.0010
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	_	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
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 mg/L	0.001		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Naphthalene	mg/L	0.001	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Phenanthrene	mg/L mg/L	0.001	-	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
	mg/L mg/L	-	-	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Pyrene Ouinoline		-	-	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Volatile Organic Compounds	mg/L	-	_	<0.000050	<0.000050	<0.000030	<0.000050	<0.000050	<0.000050
Benzene Compounds	· /	0.11		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	mg/L		-						
Ethylbenzene Methyl tert butyl ether	mg/L	0.25	- 0.44	<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	- 0.21.7	-	<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	- 0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene 1,2-Dichlorobenzene	mg/L	0.025	-	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
L / Lhoblorobonzono	mg/L	0.042	_	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050

Notes:
Results <u>underlined in bold italics</u> 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.

The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

New time guideline for the evaluation of change from background conditions arising from discharges to the aquatic environment. Salinit ² Narrative guideline for the evaluation of 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 not discharging, 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.

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

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

					erence Station Wo	-
				0.5 m Below	2 m Below	2 m Above
		Lowest A		Surface	Surface	WQR2-SF VA25B0499-009 2025-05-07 11:05 7.72 31102 9.2 28.58 0.21 7.5 9.82 2180 15800 <1.0 0.047 <0.10 <0.50 0.0051 <0.0010 <0.00147 0.0092 <0.00050 <0.00050 <0.00050 <0.00050 <0.00010 <0.00050 <0.00010 <0.00050 <0.00010 <0.00050 <0.00010 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00050 <0.00010 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010 <0.000010
Parameter	Unit	Guide	eline ¹	WQR2-0.5	WQR2-2m	
1 ur umeter	Cint			VA25B0499-	VA25B0499-	
				007	008	Seafloor WQR2-SF VA25B0499-009 2025-05-07 11:05 7.72 31102 9.2 28.58 0.21 7.5 9.82 2180 15800 <1.0
		Long Term	Short Term	2025-05-07	2025-05-07	
		Long Term	Short Term	10:50	11:15	11:05
General Parameters						
pH - Field	pH units	7.0 - 8.7	-	8.10	8.14	+
Conductivity - Field	µS/cm	-	-	10579	12582	31102
Temperature - Field	°C	-	-	10.7	11.0	9.2
Salinity - Field	ppt	Narrative ²	-	8.46	10.12	28.58
Turbidity - Field	NTU	Narrative ²	Narrative ²	2.45	2.17	
TSS	mg/L	Narrative ²	Narrative ²	3	<2.0	
Dissolved Oxygen - Field	mg/L	>=8	_	11.44	11.48	+
Anions and Nutrients	1116/2	, 0		11111	111.10	7.02
Sulphate	mg/L	_	_	435	963	2180
Chloride	mg/L mg/L	_		3550	7250	
Fluoride			1.5	<1.0	<1.0	
	mg/L					+
Ammonia (N-NH ₃)	mg/L	2.0-7.2 ³	13-48 ³	0.0126	0.0172	
Nitrite (N-NO ₂)	mg/L	-	-	<0.10	<0.10	
Nitrate (N-NO ₃)	mg/L	3.7	339	< 0.50	< 0.50	< 0.50
Total Metals						
Aluminum, total (T-Al)	mg/L	-	-	0.109	0.0643	
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	0.00068	+
Barium, total (T-Ba)	mg/L	-	-	0.0086	0.0087	+
Beryllium, total (T-Be)	mg/L	0.1	_	<0.00050	<0.00050	
Boron, total (T-B)	mg/L	1.2	_	0.67	<u>1.30</u>	
Cadmium, total (T-Cd)	mg/L	0.00012	-	<0.000020	0.000029	
Chromium, total (T-Cr)	mg/L	-	-	< 0.00050	<0.00050	
Cobalt, total (T-Co)	mg/L	-	-	0.000106	0.000094	
Copper, total (T-Cu)	mg/L	0.002	0.003	0.00082	0.00067	
Iron, total (T-Fe)	mg/L	-	-	0.159	0.088	< 0.010
Lead, total (T-Pb)	mg/L	0.002	0.14	< 0.00010	< 0.00010	< 0.00010
Manganese, total (T-Mn)	mg/L	-	-	0.00702	0.00553	0.00216
Mercury, total (T-Hg)	mg/L	0.000016 5	_	< 0.0000050	< 0.0000050	
Molybdenum, total (T-Mo)	mg/L	-	_	0.00236	0.00468	
Nickel, total (T-Ni)	mg/L mg/L	0.0083	_	<0.00050	<0.00050	
Selenium, total (T-Se)	mg/L mg/L	0.003	-	<0.00050	<0.00050	
Silver, total (T-Ag)	mg/L mg/L	0.002	0.0037	<0.00010	<0.00030	
Thallium, total (T-Tl)	mg/L	-	-	<0.000050	<0.000050	+
Uranium, total (T-U)	mg/L	- 0.005	-	0.00055	0.00116	
Vanadium, total (T-V)	mg/L	0.005	-	0.00078	0.00083	+
Zinc, total (T-Zn)	mg/L	0.01	0.055	< 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	0.000026	0.000055
Copper, dissolved (D-Cu)	mg/L	-	-	< 0.00050	< 0.00050	< 0.00050
Iron, dissolved (D-Fe)	mg/L	-	-	0.021	< 0.010	< 0.010
Lead, dissolved (D-Pb)	mg/L	-	-	< 0.00010	< 0.00010	< 0.00010
Manganese, dissolved (D-Mn)	mg/L	-	-	0.00442	0.00375	
Nickel, dissolved (D-Ni)	mg/L	_	_	< 0.00050	0.00107	+
Strontium, dissolved (D-Sr)	mg/L mg/L		_	1.07	2.72	
Vanadium, dissolved (D-V)	mg/L mg/L		_	<0.00050	0.00062	
Zinc, dissolved (D-Zn)	mg/L mg/L	-		<0.00030	<0.0010	
			_	<0.0010	<0.0010	<0.0010
Polycyclic Aromatic Hydrocar				-0.000010	-0.000010	AD 000010
Acenaphthene	mg/L	0.006	-	<0.000010	<0.000010	
Acridine	mg/L	-	-	<0.000010	<0.000010	
Anthracene	mg/L	-	-	<0.000010	< 0.000010	
Benz(a)anthracene	mg/L	-	-	< 0.000010	< 0.000010	
Benzo(a)pyrene	mg/L	0.00001	-	< 0.0000050	< 0.0000050	
Chrysene	mg/L	0.0001	-	< 0.000010	< 0.000010	
Fluoranthene	mg/L	-	-	< 0.000010	< 0.000010	< 0.000010
Fluorene	mg/L	0.012	-	< 0.000010	< 0.000010	
1-methylnaphthalene	mg/L	0.001	-	< 0.000010	< 0.000010	
2-methylnaphthalene	mg/L	0.001	-	< 0.000010	<0.000010	
Naphthalene	mg/L mg/L	0.001	_	<0.000010	<0.000050	
Phenanthrene	mg/L	-	_	<0.000030	<0.000030	
Pyrene	mg/L mg/L	-	-	<0.000020	<0.000020	
Quinoline	mg/L mg/L		_	<0.000010	<0.000010	<0.000010
		-	-	<0.000030	<0.000030	<0.000030
Volatile Organic Compounds		0.11		.0.00070	.0.00050	0.00050
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
				< 0.00040	.0.000.40	< 0.00040
Toluene	mg/L	0.215	-	<0.00040	< 0.00040	<0.00040
Toluene	mg/L mg/L	0.215	-	<0.00050		
	mg/L mg/L mg/L	0.215			<0.00040 <0.00050 <0.00050	<0.00040 <0.00050 <0.00050

Results <u>underlined in bold italics</u> 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.

The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

² Narrative guideline for the evaluation of 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 from marine reference stations, 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.

⁵ When MeHg \leq 0.5% of total Hg, BC WQG = 0.00002 mg/L. The Canadian WQG = 0.000016 mg/L.

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

					Station IDZ-E1			Station IDZ-E2	
				0.5 m Below	2 m Below	2 m Above	0.5 m Below	2 m Below	2 m Above
		Lowest A	pplicable	Surface	Surface	Seafloor	Surface	Surface	Seafloor
Parameter	Unit	Guide	eline ¹	IDZ-E1-0.5	IDZ-E1-2m	IDZ-E1-SF	IDZ-E2-0.5	IDZ-E2-2m	Seafloor IDZ-E2-SF VA25B1690- 006 2025-05-20 0:34 8.09 33628
	Omt			VA25B1690- 001	VA25B1690- 002	VA25B1690- 003	VA25B1690- 004	VA25B1690- 005	
		Long Term	Short Term	2025-05-20 12:50	2025-05-20 12:52	2025-05-20 12:54	2025-05-20 12:30	2025-05-20 12:32	
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.88	7.54	8.07	7.71	7.57	8.09
Specific Conductivity - Field	µS/cm	-	-	4034	6493	33389	3939	4821	33628
Temperature - Field	°C	-	-	10.5	10.6	13.2	10.4	10.4	13.1
Salinity - Field	ppt	Narrative ²	-	2.15	3.56	20.93	2.09	2.60	21.09
Turbidity - Field	NTU	Narrative ²	Narrative ²	2.94	2.57	0.46	2.74	2.91	0.35
TSS	mg/L	Narrative ²	Narrative ²	3.3	<2.0	2.6	2.6	2.3	5.7
Dissolved Oxygen - Field	mg/L	>=8	-	11.30	11.45	11.05	11.37	11.50	11.09

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.

Table E-4: Summary of Marine Water Quality Results Received at the Time of Reporting

					Station IDZ-W1			Station IDZ-W2	
				0.5 m Below	2 m Below	2 m Above	0.5 m Below	2 m Below	2 m Above
		Lowest A		Surface	Surface	Seafloor	Surface	Surface	
Parameter	Unit	Guideline ¹		IDZ-W1-0.5	IDZ-W1-2m	IDZ-W1-SF	IDZ-W2-0.5	IDZ-W2-2m	Seafloor IDZ-W2-SF VA25B1690- 012 2025-05-20 13:24 7.52 45471 8.9 29.21
Farameter	Unit			VA25B1690-	VA25B1690-	VA25B1690-	VA25B1690-	VA25B1690-	VA25B1690-
				007	008	009	010	011	012
		Long Town	Short Term	2025-05-20	2025-05-20	2025-05-20	2025-05-20	2025-05-20	2025-05-20
		Long Term	Snort Term	13:00	13:02	13:04	13:20	13:22	13:24
General Parameters									
pH - Field	pH units	7.0 - 8.7	-	7.78	7.53	7.72	7.76	7.67	7.52
Specific Conductivity - Field	µS/cm	-	-	3632	6851	44216	3755	4818	45471
Temperature - Field	°C	-	-	8.8	10.3	9.6	10.1	10.2	8.9
Salinity - Field	ppt	Narrative ²	-	1.92	3.77	28.36	1.99	2.59	29.21
Turbidity - Field	NTU	Narrative ²	Narrative ²	1.32	2.14	0.63	2.61	2.73	0.38
TSS	mg/L	Narrative ²	Narrative ²	< 2.0	2.0	<2.0	<2.0	2.4	<2.0
Dissolved Oxygen - Field	mg/L	>=8	-	11.94	11.67	9.08	11.67	11.67	<u>7.72</u>

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.

The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

Table E-5: Marine Water Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

Parameter					Total Methylmercury	Total Mercury
Unit					μg/L	μg/L
Lowest Applicable Guideli	ne ¹				0.0001 2	0.0050-0.020 3,4
Station	Position in Water Column	Sample ID	Lab ID	Sampling Date		
Station IDZ-E1						
IDZ-E1	0.5 m Below Surface	IDZ-E1-0.5	VA25B0359-001	2025-05-06	< 0.000020	< 0.0050
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA25B0359-002	2025-05-06	< 0.000020	< 0.0050
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA25B0359-003	2025-05-06	0.000020	< 0.0050
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA25B0359-004	2025-05-06	< 0.000020	< 0.0050
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA25B0359-005	2025-05-06	< 0.000020	< 0.0050
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA25B0359-006	2025-05-06	< 0.000020	< 0.0050
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA25B0499-001	2025-05-07	< 0.000020	< 0.0050
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA25B0499-002	2025-05-07	<u>0.000101</u>	< <u>0.0050</u>
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA25B0499-003	2025-05-07	0.000092	< 0.0050
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA25B0499-004	2025-05-07	< 0.000020	< 0.0050
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA25B0499-005	2025-05-07	< 0.000020	< 0.0050
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA25B0499-006	2025-05-07	0.000030	< 0.0050
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA25B0359-009	2025-05-06	< 0.000020	< 0.0050
WQR1	2 m Below Surface	WQR1-2m	VA25B0359-008	2025-05-06	< 0.000020	< 0.0050
WQR1	2 m Above Seafloor	WQR1-SF	VA25B0359-007	2025-05-06	< 0.000020	< 0.0050
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA25B0359-012	2025-05-06	< 0.000020	< 0.0050
WQR2	0.5 m Below Surface	WQR2-0.5	VA25B0499-007	2025-05-07	< 0.000020	< 0.0050
WQR2	2 m Below Surface	WQR2-2m	VA25B0359-011	2025-05-06	< 0.000020	< 0.0050
WQR2	2 m Below Surface	WQR2-2m	VA25B0499-008	2025-05-07	< 0.000020	< 0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA25B0359-010	2025-05-06	< 0.000020	< 0.0050
WQR2	2 m Above Seafloor	WQR2-SF	VA25B0499-009	2025-05-07	< 0.000020	< 0.0050

Results *underlined in bold italics* exceed the applicable long-term water quality guideline for the protection of marine aquatic life.

The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.

Non-detect results are screened using the detection limit value.

¹ The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs. ² Narrative guideline for the evaluation of 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 not discharging, therefore the turbidity and TSS WQGs were not evaluated.

² Narrative guideline for the evaluation of 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 not discharging, therefore the turbidity and TSS WQGs were not evaluated.

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 μ g/L.

 $^{^4}$ When MeHg \leq 0.5% of total Hg, BC WQG = 0.02 μ g/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.

Marine Water Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of **Table E-6:** Reporting.

Parameter					Lower Bound PCDD/F TEQ	Upper Bound PCDD/F TEQ
Unit					pg/L	pg/L
Station	Position in Water Column	Sample ID	Lab ID	Sampling Date	10	•
Station IDZ-E1						
IDZ-E1	0.5 m Below Surface	IDZ-E1-0.5	VA25B0360-001	2025-05-06	0.0303	0.941
IDZ-E1	2 m Below Surface	IDZ-E1-2m	VA25B0360-002	2025-05-06	0.00368	0.668
IDZ-E1	2 m Above Seafloor	IDZ-E1-SF	VA25B0360-003	2025-05-06	0.00993	0.734
Station IDZ-E2						
IDZ-E2	0.5 m Below Surface	IDZ-E2-0.5	VA25B0360-004	2025-05-06	0.000870	0.755
IDZ-E2	2 m Below Surface	IDZ-E2-2m	VA25B0360-005	2025-05-06	0.00155	0.860
IDZ-E2	2 m Above Seafloor	IDZ-E2-SF	VA25B0360-006	2025-05-06	0	0.680
Station IDZ-W1						
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA25B0263-001	2025-05-05	0.0395	1.36
IDZ-W1	0.5 m Below Surface	IDZ-W1-0.5	VA25B0502-001	2025-05-07	0.00543	1.28
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA25B0263-002	2025-05-05	0.00648	1.54
IDZ-W1	2 m Below Surface	IDZ-W1-2m	VA25B0502-002	2025-05-07	0.00990	1.36
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA25B0263-003	2025-05-05	0.00636	0.964
IDZ-W1	2 m Above Seafloor	IDZ-W1-SF	VA25B0502-003	2025-05-07	0	0.993
Station IDZ-W2						
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA25B0263-004	2025-05-05	0	1.49
IDZ-W2	0.5 m Below Surface	IDZ-W2-0.5	VA25B0502-004	2025-05-07	0.00108	1.05
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA25B0263-005	2025-05-05	0.00609	0.962
IDZ-W2	2 m Below Surface	IDZ-W2-2m	VA25B0502-005	2025-05-07	0.285	0.916
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA25B0263-006	2025-05-05	0.00447	1.85
IDZ-W2	2 m Above Seafloor	IDZ-W2-SF	VA25B0502-006	2025-05-07	0.00389	0.808
Reference Station WQR1						
WQR1	0.5 m Below Surface	WQR1-0.5	VA25B0360-009	2025-05-06	0.00406	0.714
WQR1	2 m Below Surface	WQR1-2m	VA25B0360-008	2025-05-06	0.0175	0.732
WQR1	2 m Above Seafloor	WQR1-SF	VA25B0360-007	2025-05-06	0.0107	0.751
Reference Station WQR2						
WQR2	0.5 m Below Surface	WQR2-0.5	VA25B0360-012	2025-05-06	0.0325	0.732
WQR2	0.5 m Below Surface	WQR2-0.5	VA25B0502-007	2025-05-07	0	1.02
WQR2	2 m Below Surface	WQR2-2m	VA25B0360-011	2025-05-06	0.000864	0.732
WQR2	2 m Below Surface	WQR2-2m	VA25B0502-008	2025-05-07	0.0166	0.821
WQR2	2 m Above Seafloor	WQR2-SF	VA25B0360-010	2025-05-06	0.0190	0.906
WQR2	2 m Above Seafloor	WQR2-SF	VA25B0502-009	2025-05-07	0.0800	1.15

Notes:

PCDD = polychlorinated dibenzodioxins (dioxins)

PCDF = polychlorinated dibenzofurans (furans)

TEQ = toxic equivalency

Lower bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned a value of zero (0).

Upper bound PCDD/F TEQ is the sum of the toxic equivalency results for the individual PCDD/F parameters. Non-detectable parameters are assigned the value of the detection limit