# TECHNICAL MEMORANDUM

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| **To:** | **Ian McAllister, Ashleigh Crompton, Mike Champion, and Ryan Schucroft (Woodfibre LNG)** | **Date: 9 October 2026** |
| **From:** | **Holly Pelletier and Cheng Kuang (Lorax)** | **Project #: A825-1** |
| **Subject:** | **PE-111578 Weekly Discharge and Compliance Report #134 for September 27 – October 3** | |

Waste Discharge Authorization (WDA) Effluent Permit PE-111578 was issued by the British Columbia Energy Regulator (BCER) to Woodfibre LNG on February 9, 2024. The associated WDA discharge and compliance monitoring program is conducted by on-site Environmental Monitors (Roe Environmental) that are sub-contracted to the civil works contractor (LB LNG). Analytical samples are submitted by Roe Environmental to ALS Environmental in Burnaby, BC, for testing. Lorax Environmental Services Ltd. (Lorax) provides water quality database management and WDA compliance reporting services to Woodfibre LNG.

This technical memorandum (Report #134) was prepared by Lorax and summarizes WDA monitoring conducted for the period of September 27 – October 3. 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 #134 has been prepared to meet the requirements specified in Condition 4.2 of PE-111578:

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

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

# 1. Current Conditions

## *1.1 Water Management Infrastructure*

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

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

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

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

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

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

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

## *1.2 Weather and Water Management*

Variable weather conditions were observed during the September 27 – October 3 monitoring period. The daily weather conditions are summarized in Table 1.

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

| Date | Precipitation (mm) | Max. Temp (°C) | Min. Temp (°C) | Weather Description |
|---|---|---|---|---|
| 2026-09-27 | 0 | 17.6 | 7.6 | Clear |
| 2026-09-28 | 38.0 | 15.4 | 8.6 | Rain |
| 2026-09-29 | 24.4 | 16.5 | 10.1 | Rain |
| 2026-09-30 | 0 | 16.0 | 7.1 | Overcast |
| 2026-10-01 | 1.0 | 15.6 | 10.3 | Light Rain |
| 2026-10-02 | 2.4 | 14.9 | 11.3 | Light Rain |
| 2026-10-03 | 0 | 20.7 | 12.4 | Overcast |

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

From September 27 – October 3, the East Sedimentation Pond received water from the MOF Sump and recirculated effluent from the East WWTP (Appendix A, Figure 2). No water from the East Sedimentation Pond was transferred to the West Sedimentation Pond from September 27 – October 3 (Appendix B, Table B-3).

Routine operation of the East WWTP continued during the monitoring period (September 27 – October 3). Concrete contact water was periodically directed to the East WWTP for treatment, as well as water stored in the East Sedimentation Pond (Appendix A, Figure 2 and Figure 3). East WWTP treated effluent was discharged to the East Sedimentation Pond each day during the monitoring period (September 27 – October 3) except on October 2 and 3 as the East WWTP was not operated. Daily water volumes processed by the East WWTP are provided in Appendix B (Table B-3).

From September 27 – October 3, the West Sedimentation Pond received water from the 4100 Sump, 120T Bridge, and recirculated effluent from the 2700GPM TSS settling system (Appendix A, Figure 3). West Sedimentation Pond effluent was clarified through the 2700GPM system each day during the monitoring period (September 27 – October 3) and either recirculated back to the pond or intermittently discharged to Howe Sound. A total of 5,731 $m^3$ of clarified effluent was intermittently discharged to Howe Sound from station SP-W-OUT during the monitoring period (September 27 – October 3). West Sedimentation Pond effluent was not reclaimed for construction use during the monitoring period (September 27 – October 3). Daily clarified effluent volumes from the 2700GPM TSS settling system recirculated to the West Sedimentation Pond or discharged to Howe Sound are provided in Appendix C (Table C-4).

## 2. Monitoring Summary

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

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

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

into a single discharge line and is configured with a sampling port. Since December 8, 2025, samples have been collected at the sampling port or at the outfall.

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

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

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

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

Water quality was monitored at stations OUT-01, OUT-02, SW-01, SW-02, SW-03, SW-04, SW-07, IDZ-W1, IDZ-W2, WQR2, SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN, WWTP-E-OUT, SP-W-IN, 2700GPM-IN, W2700T1-OUT, W2700T2-OUT, and SP-W-OUT during the monitoring period (September 27 – October 3). Sampling dates and parameters tested are summarized in Table 2.

Overall, the PE-111578 monitoring requirements that were applicable during the monitoring period (September 27 – October 3) were met. The initial high frequency monitoring requirements outlined in effluent permit PE-111578 for the sedimentation ponds, WWTP and IDZ stations have been met. On June 25, 2025, BCER approved the implementation of low-frequency (*i.e.,* bi-monthly and monthly) monitoring requirements specified in PE-111578 for all parameters, except for metals, hexavalent chromium, and methylmercury, which continue to be monitored weekly at sedimentation pond and WWTP stations.

Monthly PE-111578 monitoring requirements were met for the month of September. Monthly and bi-monthly analytical samples were not collected at the east catchment effluent compliance station (SP-E-OUT) as there was no discharge to Howe Sound from the East Sedimentation Pond in September. One of the required bi-monthly samples for physical parameters were not collected from the west catchment effluent compliance station (SP-W-OUT) as there was no discharge to Howe Sound from the West Sedimentation Pond in the first half of September; however, monthly

requirements were met. The influent and effluent stations of the West WWTP (WWTP-W-IN and WWTP-W-OUT, respectively) were not monitored as it was not operational in September. Monthly field measurements and analytical samples were not collected from the non-contact water diversion ditch station OUT-06 as the ditch was dry at the time of monitoring throughout September.

Daily field parameters and a weekly analytical sample were not collected at the east catchment effluent compliance station (SP-E-OUT) as there was no discharge to Howe Sound from the East Sedimentation Pond during the monitoring period (September 27 – October 3). Daily field parameters were not collected on October 1 at the west catchment effluent compliance station (SP-W-OUT) as there was no discharge at the time of monitoring. Daily field parameters were not collected at the influent and effluent stations of the East WWTP (WWTP-E-IN and WWTP-E-OUT, respectively) on September 28, 29 and October 1 as the East WWTP was not operational at the time of monitoring. The East WWTP was not operated on October 2 and 3. 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 (September 27 – October 3).

## Table 2:
## Summary of PE-111578 Monitoring Samples Collected September 27 – October 3.

| Sampling Date | Sample | Description | Parameters Tested | Monitoring Frequency |
|---|---|---|---|---|
| September 27, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | WWTP-E-IN | East WWTP at the influent meter box | Field Parameters. | D |
| | WWTP-E-OUT | East WWTP at the effluent meter box | | |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | D, $M_2$, W |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. | D, M, $M_2$, W |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | P |
| | W2700T1-OUT | 2700GPM TSS settling system at the outlet of Train 1 | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | P |
| | W2700T2-OUT | 2700GPM TSS settling system at the outlet of Train 2 | | |
| September 28, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| September 29, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| | OUT-01 | Non-contact water diversion ditch outlet | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | M |
| | OUT-02 | Non-contact water diversion ditch outlet | | |
| September 30, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | D, $M_2$, W |
| | WWTP-E-IN | East WWTP at the influent meter box | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | D, $M_2$, W |
| | WWTP-E-OUT | East WWTP at the effluent meter box | | |
| | COMB-WWTP-E-IN | Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank | Field, Physical & General Parameters, Total, Dissolved and Speciated Metals, and Methylmercury. | D, $M_2$, W |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| October 1, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| | SW-02 | Lower Reach of Mill Creek (upstream of the third bridge) | Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. | M, $M_5$ |
| | SW-03 | Mill Creek Estuary | | |
| | SW-07 | Upstream Mill Creek (at the diversion inlet) | | |
| October 2, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| | SW-01 | Lower Reach of Woodfibre Creek (near the mouth) | Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. | M, $M_5$ |
| | SW-04 | Lower Reach of East Creek (near the outlet to the outfall culvert) | | |
| October 3, 2026 | SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | Field Parameters. | D |
| | SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | Field Parameters. | D |
| | 2700GPM-IN | 2700GPM TSS settling system influent monitored at cell 4 of the pond | Field Parameters. | P |
| | IDZ-W1-0.5 | Howe Sound IDZ station W1; 0.5 m below surface | Field, Physical & General Parameters, VH & BTEX, EPHs & PAHs, Total, Dissolved and Speciated Metals, VOCs, Methylmercury, Dioxins & Furans. | M, $M_5$ |
| | IDZ-W1-2m | Howe Sound IDZ station W1; 2 m below surface | | |
| | IDZ-W1-SF | Howe Sound IDZ station W1; 2 m above the seafloor | | |
| | IDZ-W2-0.5 | Howe Sound IDZ station W2; 0.5 m below surface | | |
| | IDZ-W2-2m | Howe Sound IDZ station W2; 2 m below surface | | |
| | IDZ-W2-SF | Howe Sound IDZ station W2; 2 m above the seafloor | | |
| | WQR2-0.5 | Reference site 2; 0.5 m below surface | | |
| | WQR2-2m | Reference site 2; 2 m below surface | | |
| | WQR2-SF | Reference site 2; 2 m above the seafloor | | |

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

# 3. Water Quality Results

## *3.1 Summary of Reported Results*

Analytical results and associated field measurements included in this weekly report (Report #134) are listed below in Table 3, with additional field measurements presented in Table B-2 (Appendix B) and Table C-3 (Appendix C). Testing for methylmercury, dioxins, furans and toxicity may require four weeks or longer to complete. Analytical results not reported will be included in future weekly reports. Reporting of results is pending for the following samples and parameters:

- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected September 10 (all analytical parameters);
- SP-W-IN, 2700GPM-IN and W2700T2-OUT collected September 15 (total mercury and methylmercury);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected September 17 (total mercury and methylmercury);
- SP-E-IN and WWTP-E-IN collected September 20 (all analytical parameters);
- WWTP-E-OUT collected September 20 (all analytical parameters);
- SP-W-IN and 2700GPM-IN collected September 20 (total mercury, methylmercury, dioxins and furans);
- W2700T2-OUT collected September 20 (total mercury, methylmercury, dioxins and furans);
- IDZ-E1, IDZ-E2, IDZ-W1, IDZ-W2, and WQR2 collected September 21 (field measurements, all analytical parameters and chronic toxicity);
- WQR1 collected September 22 (field measurements and all analytical parameters);
- SP-W-OUT collected September 27 (total mercury, methylmercury, dioxins and furans);
- SP-W-IN, 2700GPM-IN, W2700T1-OUT and W2700T2-OUT collected September 27 (total mercury and methylmercury);
- OUT-01 and OUT-02 collected September 29 (field measurements and all analytical parameters);
- SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT collected September 30 (all analytical parameters);
- SW-02, SW-03 and SW-07 collected October 1 (field measurements and all analytical parameters);
- SW-01 and SW-04 collected October 2 (field measurements and all analytical parameters);

- IDZ-W1, IDZ-W2 and WQR2 collected October 3 (field measurements and all analytical parameters).

**Table 3:**
**Summary of Analytical Results and Associated Field Measurements Included in Weekly Discharge and Compliance Report #134.**

| Sample | Description | Sampling Date | Parameters Reported |
|---|---|---|---|
| SW-01 | Lower Reach of Woodfibre Creek (near the mouth) | September 3, 2026 | Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, VOCs, Total Mercury, Methylmercury, Dioxins and Furans. |
| SW-02 | Lower Reach of Mill Creek (upstream of the third bridge) | | |
| SW-03 | Mill Creek Estuary | | |
| SW-04 | Lower Reach of East Creek (near the outlet to the outfall culvert) | | |
| SW-07 | Upstream Mill Creek (at the diversion inlet) | | |
| SP-E-IN | East Sedimentation Pond influent monitored at cell 1 of the pond | September 5, 2026 | Total Mercury and Methylmercury. |
| WWTP-E-IN | East WWTP at the influent meter box | | |
| WWTP-E-OUT | East WWTP at the effluent meter box | | |
| COMB-WWTP-E-IN | Combined East WWTP influent from the concrete contact water treatment stream and the East Sedimentation Pond, collected from the heated frac tank | | |
| WWTP-E-OUT | East WWTP at the effluent meter box | September 20, 2026 | Acute Toxicity. |
| W2700T2-OUT | 2700GPM TSS settling system at the outlet of Train 2 | | |
| SP-W-IN | West Sedimentation Pond influent monitored at cell 1 of the pond | September 27, 2026 | Field, Physical and General Parameters, Total and Dissolved Metals, and Hexavalent Chromium. |
| 2700GPM-IN | 2700GPM TSS settling system at the influent meter box | | |
| W2700T1-OUT | 2700GPM TSS settling system at the outlet of Train 1 | | |
| W2700T2-OUT | 2700GPM TSS settling system at the outlet of Train 2 | | |
| SP-W-OUT | West Sedimentation Pond clarified effluent discharged to Howe Sound at the SP-W-OUT outfall structure | | Field, Physical and General Parameters, Total and Dissolved Metals, Hexavalent Chromium, PAHs, and VOCs. |

## 3.2 Screening and Reporting Overview

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

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

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

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

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

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

A summary of reported and pending results is provided in Section 3.1. Results for effluents from East WWTP, 2700GPM TSS settling system, and East and West Sedimentation Ponds are discussed in Section 3.3 and Section 3.4, respectively. The water quality monitored at non-contact water diversion ditch outlets and in the receiving environment is described in Section 3.5 to Section 3.7. Sediment samples are collected annually at stations IDZ-E-SED and IDZ-W-SED and are discussed in Section 3.7 when they are reported. Sediment samples were last collected in May 2026, and the analytical results were presented in Report #122.

## *3.3 East Catchment*

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

East WWTP effluent was directed to the East Sedimentation Pond and there was no discharge from the pond to Howe Sound from September 27 – October 3 (Section 1.2). Hence, water quality samples and field measurements were not collected at the SP-E-OUT discharge location during the monitoring period.

Results are presented for field measurements of influent quality for the East Sedimentation Pond and East WWTP influent and effluent quality collected September 27 – October 3 (stations SP-E-IN, WWTP-E-IN and WWTP-E-OUT) as well as analytical results for samples collected September 5 (total mercury and methylmercury results for stations SP-E-IN, WWTP-E-IN, COMB-WWTP-E-IN and WWTP-E-OUT; as discussed in Report #130) (Appendix B, Table B-1 and Table B-2).

Field measurements for the East WWTP effluent samples (WWTP-E-OUT) met MDOs (Appendix B, Table B-2). Total mercury and methylmercury concentrations were above the

MDOs in the WWTP-E-OUT analytical sample collected September 5 (Appendix B, Table B-1). Metal parameters above MDOs are tracked in Table 4.

Acute toxicity test results for the September 20 WWTP-E-OUT sample discussed in Report #133 were available at the time of reporting. There was no discharge from the East Sedimentation Pond to Howe Sound via the effluent compliance station (SP-E-OUT) at the time of monitoring. East WWTP effluent directed to the pond on September 20 was tested for acute toxicity as a proxy for effluent quality at SP-E-OUT to meet PE-111578 monitoring requirements. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the WWTP-E-OUT sample, indicating the East WWTP effluent passed the acute toxicity test and was not acutely toxic to these organisms.

### *3.4 West Catchment*

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

As discussed in Section 1.2, a total of 5,731 $m^3$ of clarified sedimentation pond effluent from the 2700GPM TSS Settling System was intermittently discharged to Howe Sound from SP-W-OUT each day during the monitoring period (September 27 – October 3).

Results are presented for field measurements of influent and effluent quality for the West Sedimentation Pond and the 2700GPM TSS settling system collected September 27 – October 3 (stations SP-W-IN, 2700GPM-IN and SP-W-OUT), as well as analytical results for samples collected September 27 (stations SP-W-IN, 2700GPM-IN, W2700T1-OUT, W2700T2-OUT and SP-W-OUT) (Appendix C, Table C-1 through Table C-3).

Field measurements collected September 27 – October 3 and the analytical sample collected at SP-W-OUT on September 27 met PE-111578 discharge limits and WQGs (Appendix C, Table C-2 and C-3).

Acute toxicity test results for the September 20 W2700T2-OUT sample discussed in Report #133 were available at the time of reporting. There was no discharge from the West Sedimentation Pond to Howe Sound via the effluent compliance station (SP-W-OUT) at the time of monitoring. 2700GPM clarified effluent directed to the pond on September 20 was tested for acute toxicity as a proxy for effluent quality at SP-W-OUT to meet PE-111578 monitoring requirements. Results showed 100% survival of rainbow trout and *Daphnia magna* after exposure to the W2700T2-OUT sample, indicating the 2700GPM clarified effluent passed the acute toxicity test and was not acutely toxic to these organisms.

### 3.5 Non-Contact Water Diversion Ditch Outlets

Field measurements and analytical results were not available at the time of reporting for non-contact water diversion ditch outlets.

### 3.6 Freshwater and Estuarine Water Receiving Environment

Analytical results were available at the time of reporting for freshwater and estuarine water samples collected near the mouths of Woodfibre Creek and East Creek (stations SW-01 and SW-04, respectively) and at the Mill Creek estuary, mid-stream and background stations (SW-03, SW-02 and SW-07, respectively) on September 3 (as discussed in Report #130). The analytical results, field parameters, and WQGs are summarized in Appendix D (freshwater) and Appendix E (estuarine water).

Parameter concentrations met WQGs except fluoride, total aluminum and dissolved copper (Appendix D, Table D-1). Fluoride was above the long-term WQG in the sample collected from East Creek. Total aluminum was above the long-term WQG in samples collected from Woodfibre Creek and the Mill Creek mid-stream station. Dissolved copper was above the long-term WQG in samples collected from the Mill Creek mid-stream station.

The fluoride concentration measured in East Creek on September 3 (0.279 mg/L) was above the maximum value observed in the pre-construction baseline monitoring program (<0.1 mg/L) and above the range of values observed at the background station for East Creek (<0.020 to 0.028 mg/L). Potential sources of fluoride to East Creek have been previously determined to originate from upstream of the LNG facility construction area and not from the Woodfibre LNG facility construction project (as discussed in Report #115).

The total aluminum concentrations measured in Woodfibre Creek and Mill Creek on September 3 (0.157 and 0.0915 mg/L, respectively) were within the range observed in the pre-construction baseline monitoring program (0.0379 to 0.294 mg/L for Woodfibre Creek and 0.0179 to 0.245 mg/L for Mill Creek) and within ranges observed at the background stations for Woodfibre and Mill Creek (0.0428 to 0.250 mg/L for Woodfibre Creek and 0.0210 to 0.337 mg/L for Mill Creek).

The dissolved copper concentration measured in Mill Creek on September 3 (0.00034 mg/L) was above the range of values observed in the pre-construction baseline monitoring program (0.00012 to 0.00031 mg/L) but within the range observed at the background station for Mill Creek (<0.00020 to 0.00054 mg/L).

Total mercury, methylmercury, dioxins and furans analytical results were available at the time of reporting for the freshwater and estuarine water samples collected September 3. Methylmercury concentrations ranged from <0.000020 to <0.000100 µg/L in all samples and met the WQG. The

corresponding total mercury results met the WQG. The lower bound PCDD/F TEQ concentrations were 0 pg/L and the upper bound PCDD/F TEQ concentrations ranged from 1.72 to 3.23 pg/L in all samples. The lower and upper bound PCDD/F TEQ concentrations measured in Woodfibre Creek, East Creek, and downstream stations on Mill Creek (SW-02 and SW-03) were within the concentration ranges observed in the pre-construction baseline monitoring program (0 to 0.08 pg/L and 0 to 5.30 pg/L for lower and upper bound PCDD/F TEQ, respectively) and within ranges observed at background stations (0 to 0.669 pg/L and 0.431 to 5.20 pg/L for lower and upper bound PCDD/F TEQ, respectively). Results are tabulated in Appendix D, Table D-2 and D-3 (freshwater) and Appendix E, Table E-2 and E-3 (estuarine water).

### 3.7 Marine Water Receiving Environment

Field measurements and analytical results were not available at the time of reporting for the marine water receiving environment.

### 3.8 Quality Control

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

## Table 4:
## Weekly Report QC Evaluations and Ongoing Items

| QC Procedure | Observation | Investigation/Resolution |
|---|---|---|
| **Reporting Period (September 27 – October 3, Report #134)** | | |
| **Authorized Works and Monitoring Program Evaluation** | The authorized works and monitoring stations have not been established as described in PE-111578. | The PE-111578 authorized works for water management have been constructed, except for some of the conveyance ditches, which require completion of site grading prior to installation. Sumps, pumps and hoses are used for temporary conveyance until the ditches are completed. Outfall 11 (OUT-11) has been constructed but is currently not in use. This item remains open. |
| **Report #134: Pending Data** | Analytical results not reported. | Field measurements and all analytical results for non-contact water diversion ditch outlets collected September 29 and for receiving environment samples collected October 1, 2, and 3, analytical results for contact and treated water samples collected September 30, as well as total mercury, methylmercury, dioxins and furans results for contact and treated water samples collected September 27 are pending and will be included in future weekly reports when available. This item remains open. |
| **Ongoing Items from Previous Weekly Reports** | | |
| **Report #112: WWTP Performance Evaluation** | Total mercury and methylmercury above the MDO. | This item was first noted in Report #112. The total mercury and methylmercury concentrations in the samples collected at WWTP-E-OUT from April 15 through June 8 and on July 10, 26, August 6, 14, 18, 24, and September 5 were above the MDOs. Total mercury was above the MDO on July 20.<br>Increased incidence of total mercury and methylmercury concentrations above the MDOs in site contact waters occurred in late April 2025 through September 2025, coinciding with warmer and drier weather relative to winter months. In 2025, possible project related sources had been evaluated, and upstream contact water monitoring data indicate methylmercury was elevated in the Hydrovac sump. Excess water from this sump is directed to the East WWTP. This production of methylmercury is attributed to microbially mediated methylation of total mercury in the bottom sediments of water management sumps, and transfer from the sump sediments to the water column.<br>Enhanced monitoring for methylmercury was implemented in May 2026. Results indicate elevated methylmercury concentrations are observed in the Hydrovac bins, comparable to levels observed in 2025 at the Hydrovac sump. Excess water from the Hydrovac bins is directed to the East WWTP. The enhanced monitoring for methylmercury is ongoing. This item remains open. |
| **Report #116: WWTP Performance Evaluation** | Hexavalent chromium above the MDO. | This item was first noted in Report #116. Hexavalent chromium concentrations in all samples collected at WWTP-E-OUT in July and on August 6 and 18 were above the MDO (0.0015 mg/L). The hexavalent chromium concentration in the WWTP-E-OUT sample collected August 14, 24, September 5 and 17 met the MDO. The WWTP treatment performance for hexavalent chromium will continue to be evaluated through October 2026. This item remains open. |
| **Report #127: WWTP Performance Evaluation** | Total selenium above the MDO. | The total selenium concentrations in WWTP-E-OUT samples collected in August and on September 5 were above the MDO (0.002 mg/L). Total selenium met the MDO in the WWTP-E-OUT sample collected September 17. The WWTP treatment performance for total selenium will be evaluated through October 2026. This item remains open. |
| **Report #130: Pending Data** | Analytical results not reported. | Previously pending field measurements and all analytical parameters for receiving environment samples collected September 3 as well as total mercury and methylmercury results for contact and treated water samples collected September 5 are included in Report #134. This item is closed. |
| **Report #131: WWTP Performance Evaluation** | Total zinc above the MDO. | The total zinc concentration in the sample collected at WWTP-E-OUT on September 5 was above the MDO (0.0133 mg/L). Total zinc met the MDO in the WWTP-E-OUT sample collected September 17. The WWTP treatment performance for total zinc will be evaluated through October 2026 to determine if this is an isolated event or a recurring issue that requires additional investigation. This item remains open. |
| **Report #131: Pending Data** | Analytical results not reported. | All analytical parameters for contact and treated water samples collected September 10 are pending and will be included in future weekly reports when available. This item remains open. |
| **Report #132: Pending Data** | Analytical results not reported. | Total mercury and methylmercury results for contact and treated water samples collected September 15 and 17 are pending and will be included in future weekly reports when available. This item remains open. |
| **Report #133: Pending Data** | Analytical results not reported. | Previously pending acute toxicity test results for treated water samples collected September 20 are included in Report #134. Analytical parameters for contact and treated water samples collected September 20 as well as field measurements, analytical results and chronic toxicity test results for receiving environment samples collected September 21 and 22 are pending and will be included in future weekly reports when available. This item remains open. |

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

# 4. Closure

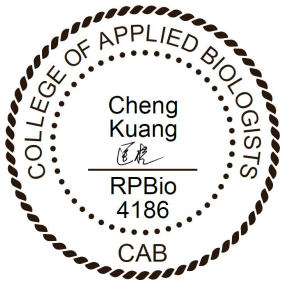
This weekly report is a desktop review by Lorax of the PE-111578 discharge and compliance monitoring program records, reports and results provided by Woodfibre LNG and prime contractor McDermott International and their sub-contractors. The records reviewed and analyzed by Lorax include ALS Environmental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

Regards,

**LORAX ENVIRONMENTAL SERVICES LTD.**




**Holly Pelletier, B.Sc., P.Geo.**
**Environmental Geoscientist**




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

**Lorax Environmental Services Ltd. EGBC Permit to Practice Number: 1001840**

# *Appendix A:*
# *Figures and Site Images*




## LEGEND

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

| | |
|---|---|
| DATE SAVED: | Oct 08, 2026 |
| DRAWN BY: | DM |
| REVIEWED: | PM |
| VERSION: | 1 |

**Coordinate System:** NAD 1983 UTM Zone 10N
**Projection:** Transverse Mercator
**Datum:** North American 1983
**Units:** Metres

**1:7,000**

0 100 200 Metres

CLIENT: Woodfibre LNG

LORAX ENVIRONMENTAL

PROJECT: **Woodfibre LNG Project Construction Phase**

TITLE: Site Layout and Water Quality Monitoring Stations for PE-111578 (October 3, 2026)

PROJECT #: A825-1

FIGURE: 1

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

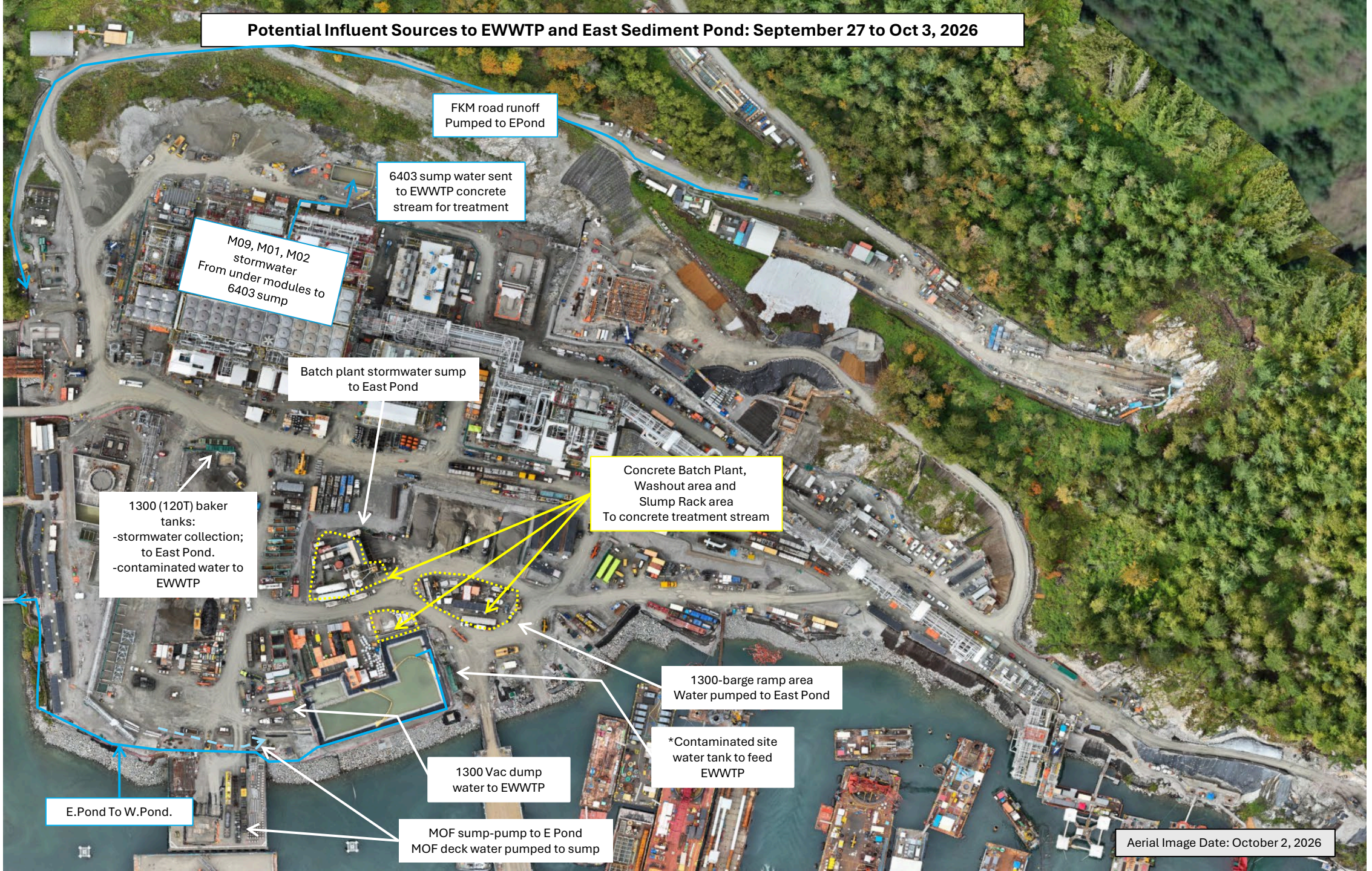

Potential Influent Sources to EWWTP and East Sediment Pond: September 27 to Oct 3, 2026
FKM road runoff
Pumped to EPond
6403 sump water sent
to EWWTP concrete
stream for treatment
M09, M01, M02
stormwater
From under modules to
6403 sump
Batch plant stormwater sump
to East Pond
Concrete Batch Plant,
Washout area and
Slump Rack area
To concrete treatment stream
1300 (120T) baker
tanks:
-stormwater collection;
to East Pond.
-contaminated water to
EWWTP
1300-barge ramp area
Water pumped to East Pond
*Contaminated site
water tank to feed
EWWTP
1300 Vac dump
water to EWWTP
E.Pond To W.Pond.
MOF sump-pump to E Pond
MOF deck water pumped to sump
Aerial Image Date: October 2, 2026

Figure 2

**Figure 3**


Potential Influent Sources to West Sedimentation Pond and 2700GPM system: September 27 to Oct 3, 2026
Woodfibre FSR and laydown run-on to Ditches to Checkpoint 'F' to West Pond
Upper 4100 stormwater ditch directed to 'F' sump then West Pond
120T bridge deck Water to WPond
4200 8-plex Collection sump
Outfall-1 sumps pump to Checkpoint 'F'
4100 road and puddle pumping to Checkpoint 'F'
4100 Flex Unit stormwater pumped to West Pond
4200 buildings catch basin stormwater pumped to West Pond
Washbay water To EWWTP
Fuel Bay water To EWWTP
Transfer from E.Pond to To W.Pond
4100 collection Sump (Checkpoint 'F') Received water from Outfall-1 sumps, Upper 4100, 4100 road and all puddle pumping Pump to West Pond
4100 puddle pumping to Checkpoint 'F'
Aerial Image Date: October 2, 2026



**Figure 4: Aerial view of the East Sedimentation Pond (October 5, 2026). The East WWTP is located on the left side of the pond.**

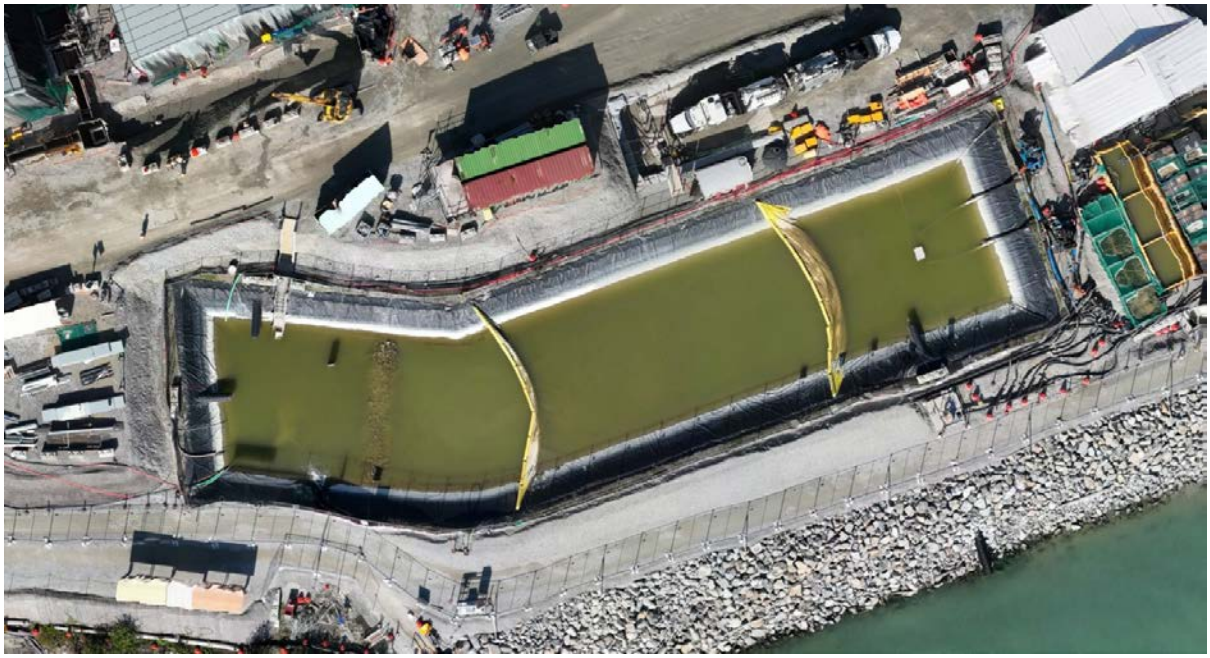


**Figure 5: Aerial view of the West Sedimentation Pond (October 5, 2026).**

# *Appendix B:*
# *East Catchment Monitoring Results*

## Table B-1:
## East Catchment Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

| **Parameter** | | | | | **Total Methylmercury** | **Total Mercury** |
|---|---|---|---|---|---|---|
| **Unit** | | | | | **µg/L** | **µg/L** |
| **Lowest Applicable Guideline[1]** | | | | | 0.0001 [2] | 0.0019 - 0.016 [3,4] |
| **Station** | **Water Type** | **Sample ID** | **Lab ID** | **Sampling Date** | | |
| Influent | | | | | | |
| SP-E-IN | Influent | SP-E-IN | VA26C5242-001 | 2026-09-05 | ***0.000874*** | ***0.0167*** |
| WWTP-E-IN | Influent | WWTP-E-IN | VA26C5242-002 | 2026-09-05 | ***0.000356*** | ***0.0102*** |
| COMB-WWTP-E-IN | Influent | COMB-WWTP-E-IN | VA26C5242-005 | 2026-09-05 | ***0.000725*** | ***0.114*** |
| Effluent | | | | | | |
| WWTP-E-OUT | Effluent | WWTP-E-OUT | VA26C5242-008 | 2026-09-05 | ***0.000564*** | ***0.0435*** |

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

## Table B-2:
## East Catchment Field Measurements Collected During the Monitoring Period (September 27 – October 3).

| **Parameter** | | | **Temperature** | **Dissolved Oxygen (DO)** | **Salinity** | **Turbidity** | **Estimated TSS [3]** | **pH** | **Specific Conductivity** | **Visibility of Sheen** |
|---|---|---|---|---|---|---|---|---|---|---|
| **Unit** | | | **°C** | **mg/L** | **ppt** | **NTU** | **mg/L** | **s.u.** | **µS/cm** | |
| **PE-111578 Discharge Limit** | | | - | - | - | - | 25 or 75 [6] | 5.5 - 9.0 | - | - |
| **Lowest Applicable Guideline [1]** | | | - | ≥8 | - | - | - [2] | - [2] | - | - |
| **Station ID** | **Water Type** | **Date** | | | | | | | | |
| Influent [4] | | | | | | | | | | |
| SP-E-IN | Influent | 2026-09-27 15:34 | 16.3 | 9.81 | 1.19 | 37.43 | 30.9 | 6.7 | 2297 | No |
| SP-E-IN | Influent | 2026-09-28 12:50 | 14.8 | 9.83 | 1.00 | 46.86 | 37.9 | 7.1 | 1943 | No |
| SP-E-IN | Influent | 2026-09-29 14:32 | 16.0 | 11.20 | 0.93 | 50.69 | 40.8 | 6.7 | 1825 | No |
| SP-E-IN | Influent | 2026-09-30 12:05 | 16.7 | 10.54 | 0.9 | 59.32 | 47.2 | 7.1 | 1763 | No |
| SP-E-IN | Influent | 2026-10-01 11:03 | 13.9 | 11.05 | 0.75 | 4.91 | 6.7 | 7.0 | 1481 | No |
| SP-E-IN | Influent | 2026-10-02 12:22 | 14.4 | 10.77 | 0.41 | 140.06 | 107.5 | 7.3 | 831 | No |
| SP-E-IN | Influent | 2026-10-03 9:16 | 14.5 | 10.57 | 0.64 | 44.88 | 36.5 | 7.4 | 1277 | No |
| WWTP-E-IN | Influent | 2026-09-27 15:16 | 15.0 | 8.35 | 1.22 | 73.45 | 57.8 | 7.9 | 2350 | No |
| WWTP-E-IN | Influent | 2026-09-30 10:34 | 13.5 | 9.72 | 0.77 | 43.35 | 35.3 | 7.1 | 1515 | No |
| Effluent [5] | | | | | | | | | | |
| WWTP-E-OUT | Effluent | 2026-09-27 15:27 | 15.7 | 10.58 | 1.24 | 5.39 | 7.0 | 6.5 | 2404 | No |
| WWTP-E-OUT | Effluent | 2026-09-30 11:01 | 13.8 | 10.52 | 0.93 | 3.82 | 5.8 | 6.5 | 1819 | No |
| WWTP-E-OUT | Effluent | 2026-09-30 16:58 | 15.1 | 10.50 | 0.91 | 8.28 | 9.2 | 6.7 | 1793 | No |

**Notes:**
The east catchment did not discharge to Howe Sound during the monitoring period (September 27 – October 3). Results above screening values are highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 East Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-E-IN were collected from cell 1 of the East Sedimentation Pond. Daily field measurements for station WWTP-E-IN were not collected on September 28, 29 and October 1 as the East WWTP was not operational at the time of monitoring. The East WWTP was not operated on October 2 and 3.
[5] There was no discharge at the authorized discharge location (SP-E-OUT) during the monitoring period (September 27 – October 3), therefore daily field measurements for SP-E-OUT were not collected on those days. Daily field measurements for station WWTP-E-OUT were not collected on September 28, 29 and October 1 as the East WWTP was not operational at the time of monitoring. The East WWTP was not operated on October 2 and 3.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions. The TSS discharge limit for Wet Conditions was applicable on September 28, 29 and 30.

## Table B-3:
## East Catchment Daily Discharge Volumes for the Monitoring Period (September 27 – October 3).

| | **East Sedimentation Pond Effluent** | **Transfer to West Sedimentation Pond** | **East WWTP Treated Effluent (Station WWTP-E-OUT)[2]** | **Discharge to Howe Sound (Station SP-E-OUT)** |
|---|---|---|---|---|
| **Units** | **$m^3$** | **$m^3$** | **$m^3$** | **$m^3$** |
| **PE-111578 Discharge Limit** | - | - | 1,100 | - [1] |
| **Date** | | | | |
| 2026-09-27 | 0 | 0 | 340 | 0 |
| 2026-09-28 | 0 | 0 | 92 | 0 |
| 2026-09-29 | 0 | 0 | 230 | 0 |
| 2026-09-30 | 0 | 0 | 349 | 0 |
| 2026-10-01 | 0 | 0 | 108 | 0 |
| 2026-10-02 | 0 | 0 | 0 | 0 |
| 2026-10-03 | 0 | 0 | 0 | 0 |

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

# *Appendix C:*
# *West Catchment Monitoring Results*

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

| Parameter | Unit | Lowest Applicable Guideline [1] | | PE-111578 Discharge Limit | Station 2700GPM-IN | Station W2700T1-OUT | Station W2700T2-OUT |
|---|---|---|---|---|---|---|---|
| | | | | | Influent | Effluent | Effluent |
| | | | | | 2700GPM-IN | W2700T1-OUT | W2700T2-OUT |
| | | | | | VA26C8114-002 | VA26C8114-003 | VA26C8114-004 |
| | | Long Term | Short Term | | 2026-09-27 10:21 | 2026-09-27 9:50 | 2026-09-27 9:55 |
| **General Parameters** | | | | | | | |
| pH - Field | pH units | - [2] | - | 5.5 - 9.0 | 8.2 | 8.1 | 8.1 |
| Specific Conductivity - Field | µS/cm | - | - | - | 1145 | 1126 | 1141 |
| Temperature - Field | °C | - | - | - | 13.9 | 14.1 | 13.9 |
| Salinity - Field | ppt | - | - | - | 0.57 | 0.56 | 0.57 |
| Turbidity - Field | NTU | - | - | - | 16.47 | 7.23 | 6.3 |
| TSS | mg/L | - | - | 25 or 75 [5] | 7.2 | <3.0 | <3.0 |
| Dissolved Oxygen - Field | mg/L | ≥8 | - | - | 10.33 | 10.99 | 10.23 |
| Total Hardness | mg/L | - | - | - | 90.6 | 85.8 | 88.5 |
| Dissolved Hardness | mg/L | - | - | - | 88.3 | 95.5 | 96.7 |
| **Anions and Nutrients** | | | | | | | |
| Sulphate | mg/L | - | - | - | 400 | 399 | 399 |
| Chloride | mg/L | - | - | - | 9.14 | 9.11 | 9.12 |
| Fluoride | mg/L | - | 1.5 | - | 0.13 | 0.132 | 0.132 |
| Ammonia (N-$NH_3$) | mg/L | 0.87 [3] | 5.8 [3] | - | 0.0441 | 0.0221 | 0.0653 |
| Nitrite (N-$NO_2$) | mg/L | - | - | - | <0.0050 | <0.0050 | <0.0050 |
| Nitrate (N-$NO_3$) | mg/L | 3.7 | 339 | - | 0.115 | 0.117 | 0.108 |
| Total Organic Carbon (TOC) | mg/L | - | - | - | 2.34 | 2.19 | 2.08 |
| Dissolved Organic Carbon (DOC) | mg/L | - | - | - | 2.56 | 2.1 | 2.14 |
| **Total Metals** | | | | | | | |
| Aluminum, total (T-Al) | mg/L | - | - | - | 0.721 | 0.24 | 0.204 |
| Antimony, total (T-Sb) | mg/L | - | 0.27 [4] | - | 0.00084 | 0.00086 | 0.00086 |
| Arsenic, total (T-As) | mg/L | 0.0125 | - | - | 0.00093 | 0.00096 | 0.00093 |
| Barium, total (T-Ba) | mg/L | - | - | - | 0.00927 | 0.0065 | 0.00535 |
| Beryllium, total (T-Be) | mg/L | 0.1 | - | - | <0.000020 | <0.000020 | <0.000020 |
| Boron, total (T-B) | mg/L | 1.2 | - | - | 0.026 | 0.022 | 0.023 |
| Cadmium, total (T-Cd) | mg/L | 0.00012 | - | - | <0.0000250 | <0.0000250 | <0.0000200 |
| Chromium, total (T-Cr) | mg/L | - | - | - | <0.00050 | <0.00050 | <0.00050 |
| Cobalt, total (T-Co) | mg/L | - | - | - | 0.0002 | <0.00010 | <0.00010 |
| Copper, total (T-Cu) | mg/L | - [2] | - [2] | 0.0043 | 0.00282 | 0.00143 | 0.00109 |
| Iron, total (T-Fe) | mg/L | - | - | - | 0.5 | 0.112 | 0.085 |
| Lead, total (T-Pb) | mg/L | - [2] | - [2] | 0.0035 | 0.0003 | 0.00019 | 0.00009 |
| Manganese, total (T-Mn) | mg/L | 0.1 | - | - | 0.0213 | 0.00466 | 0.00361 |
| Molybdenum, total (T-Mo) | mg/L | - | - | - | 0.0621 | 0.065 | 0.0657 |
| Nickel, total (T-Ni) | mg/L | 0.0083 | - | - | <0.00050 | <0.00050 | <0.00050 |
| Selenium, total (T-Se) | mg/L | 0.002 | - | - | 0.000332 | 0.000294 | 0.00028 |
| Silver, total (T-Ag) | mg/L | 0.0005 | 0.0037 | - | 0.000022 | <0.000010 | <0.000010 |
| Thallium, total (T-Tl) | mg/L | - | - | - | 0.000023 | 0.000021 | 0.000019 |
| Uranium, total (T-U) | mg/L | - | - | - | 0.00436 | 0.00414 | 0.00419 |
| Vanadium, total (T-V) | mg/L | - [2] | - | 0.0081 | 0.0015 | 0.00104 | 0.001 |
| Zinc, total (T-Zn) | mg/L | - [2] | - [2] | 0.0133 | 0.0107 | 0.0031 | <0.0030 |
| Hexavalent Chromium, total | mg/L | 0.0015 | - | - | <0.00050 | <0.00050 | <0.00050 |
| **Dissolved Metals** | | | | | | | |
| Cadmium, dissolved (D-Cd) | mg/L | - | - | - | <0.0000225 | <0.0000350 | <0.0000300 |
| Cobalt, dissolved (D-Co) | mg/L | - | - | - | <0.00010 | <0.00010 | <0.00010 |
| Copper, dissolved (D-Cu) | mg/L | - | - | - | 0.00191 | 0.00094 | 0.00092 |
| Iron, dissolved (D-Fe) | mg/L | - | - | - | <0.010 | <0.010 | <0.010 |
| Lead, dissolved (D-Pb) | mg/L | - | - | - | <0.000050 | <0.000050 | <0.000050 |
| Manganese, dissolved (D-Mn) | mg/L | - | - | - | 0.0014 | 0.00027 | 0.00035 |
| Nickel, dissolved (D-Ni) | mg/L | - | - | - | <0.00050 | <0.00050 | <0.00050 |
| Strontium, dissolved (D-Sr) | mg/L | - | - | - | 0.203 | 0.203 | 0.212 |
| Vanadium, dissolved (D-V) | mg/L | - | - | - | 0.00072 | 0.0007 | 0.0007 |
| Zinc, dissolved (D-Zn) | mg/L | - | - | - | 0.0059 | 0.0022 | 0.002 |
| **Polycyclic Aromatic Hydrocarbons (PAHs)** | | | | | | | |
| Acenaphthene | mg/L | 0.006 | - | - | - | - | - |
| Acridine | mg/L | - | - | - | - | - | - |
| Anthracene | mg/L | - | - | - | - | - | - |
| Benz(a)anthracene | mg/L | - | - | - | - | - | - |
| Benzo(a)pyrene | mg/L | 0.00001 | - | - | - | - | - |
| Chrysene | mg/L | 0.0001 | - | - | - | - | - |
| Fluoranthene | mg/L | - | - | - | - | - | - |
| Fluorene | mg/L | 0.012 | - | - | - | - | - |
| 1-methylnaphthalene | mg/L | 0.001 | - | - | - | - | - |
| 2-methylnaphthalene | mg/L | 0.001 | - | - | - | - | - |
| Naphthalene | mg/L | 0.001 | - | - | - | - | - |
| Phenanthrene | mg/L | - | - | - | - | - | - |
| Pyrene | mg/L | - | - | - | - | - | - |
| Quinoline | mg/L | - | - | - | - | - | - |
| **Volatile Organic Compounds (VOCs)** | | | | | | | |
| Benzene | mg/L | 0.59 | 6.0 | - | - | - | - |
| Ethylbenzene | mg/L | 0.07 | 1.0 | - | - | - | - |
| Methyl-tert-butyl-ether | mg/L | 5 | 0.44 | - | - | - | - |
| Styrene | mg/L | - | - | - | - | - | - |
| Toluene | mg/L | 0.03 | 3.0 | - | - | - | - |
| Total Xylenes | mg/L | 0.07 | 1.0 | - | - | - | - |
| Chlorobenzene | mg/L | 0.025 | - | - | - | - | - |
| 1,2-Dichlorobenzene | mg/L | 0.042 | - | - | - | - | - |

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

## Table C-2:
## West Sedimentation Pond Influent and Effluent Analytical Results Received at the Time of Reporting.

| Parameter | Unit | Lowest Applicable Guideline [1] | | PE-111578 Discharge Limit | Station SP-W-IN Influent SP-W-IN VA26C8114-001 2026-09-27 10:10 | Station SP-W-OUT Effluent SP-W-OUT VA26C8114-005 2026-09-27 10:59 |
|---|---|---|---|---|---|---|
| | | Long Term | Short Term | | | |
| **General Parameters** | | | | | | |
| pH - Field | pH units | - [2] | - | 5.5 - 9.0 | 8.1 | 8.1 |
| Specific Conductivity - Field | µS/cm | - | - | - | 1146 | 1152 |
| Temperature - Field | °C | - | - | - | 14.2 | 14.1 |
| Salinity - Field | ppt | - | - | - | 0.57 | 0.58 |
| Turbidity - Field | NTU | - | - | - | 16.23 | 6.92 |
| TSS | mg/L | - | - | 25 or 75 [5] | 10.6 | <3.0 |
| Dissolved Oxygen - Field | mg/L | ≥8 | - | - | 10.7 | 10.59 |
| Total Hardness | mg/L | - | - | - | 90.8 | 87.4 |
| Dissolved Hardness | mg/L | - | - | - | 87.7 | 94.9 |
| **Anions and Nutrients** | | | | | | |
| Sulphate | mg/L | - | - | - | 401 | 384 |
| Chloride | mg/L | - | - | - | 9.12 | 10.4 |
| Fluoride | mg/L | - | 1.5 | - | 0.132 | 0.126 |
| Ammonia (N-$NH_3$) | mg/L | 0.87 [3] | 5.8 [3] | - | 0.0223 | 0.0682 |
| Nitrite (N-$NO_2$) | mg/L | - | - | - | <0.0050 | <0.0050 |
| Nitrate (N-$NO_3$) | mg/L | 3.7 | 339 | - | 0.114 | 0.111 |
| Total Organic Carbon (TOC) | mg/L | - | - | - | 3.03 | 2.43 |
| Dissolved Organic Carbon (DOC) | mg/L | - | - | - | 2.54 | 2.26 |
| **Total Metals** | | | | | | |
| Aluminum, total (T-Al) | mg/L | - | - | - | 0.764 | 0.239 |
| Antimony, total (T-Sb) | mg/L | - | 0.27 [4] | - | 0.00087 | 0.00088 |
| Arsenic, total (T-As) | mg/L | 0.0125 | - | - | 0.001 | 0.0009 |
| Barium, total (T-Ba) | mg/L | - | - | - | 0.00885 | 0.0063 |
| Beryllium, total (T-Be) | mg/L | 0.1 | - | - | <0.000020 | <0.000020 |
| Boron, total (T-B) | mg/L | 1.2 | - | - | 0.026 | 0.023 |
| Cadmium, total (T-Cd) | mg/L | 0.00012 | - | - | <0.0000250 | <0.0000250 |
| Chromium, total (T-Cr) | mg/L | - | - | - | 0.00059 | 0.00056 |
| Cobalt, total (T-Co) | mg/L | - | - | - | 0.00022 | <0.00010 |
| Copper, total (T-Cu) | mg/L | - [2] | - [2] | 0.0043 | 0.00164 | 0.00089 |
| Iron, total (T-Fe) | mg/L | - | - | - | 0.588 | 0.128 |
| Lead, total (T-Pb) | mg/L | - [2] | - [2] | 0.0035 | 0.000235 | 0.0001 |
| Manganese, total (T-Mn) | mg/L | 0.1 | - | - | 0.0237 | 0.00481 |
| Molybdenum, total (T-Mo) | mg/L | - | - | - | 0.0644 | 0.0668 |
| Nickel, total (T-Ni) | mg/L | 0.0083 | - | - | <0.00050 | <0.00050 |
| Selenium, total (T-Se) | mg/L | 0.002 | - | - | 0.000295 | 0.000279 |
| Silver, total (T-Ag) | mg/L | 0.0005 | 0.0037 | - | 0.000027 | <0.000010 |
| Thallium, total (T-Tl) | mg/L | - | - | - | 0.000023 | 0.000018 |
| Uranium, total (T-U) | mg/L | - | - | - | 0.00434 | 0.00413 |
| Vanadium, total (T-V) | mg/L | - [2] | - | 0.0081 | 0.00163 | 0.00109 |
| Zinc, total (T-Zn) | mg/L | - [2] | - [2] | 0.0133 | 0.004 | <0.0030 |
| Hexavalent Chromium, total | mg/L | 0.0015 | - | - | <0.00050 | <0.00050 |
| **Dissolved Metals** | | | | | | |
| Cadmium, dissolved (D-Cd) | mg/L | - | - | - | <0.0000200 | <0.0000350 |
| Cobalt, dissolved (D-Co) | mg/L | - | - | - | <0.00010 | <0.00010 |
| Copper, dissolved (D-Cu) | mg/L | - | - | - | 0.00072 | 0.00077 |
| Iron, dissolved (D-Fe) | mg/L | - | - | - | <0.010 | <0.010 |
| Lead, dissolved (D-Pb) | mg/L | - | - | - | <0.000050 | <0.000050 |
| Manganese, dissolved (D-Mn) | mg/L | - | - | - | 0.00085 | 0.00049 |
| Nickel, dissolved (D-Ni) | mg/L | - | - | - | <0.00050 | <0.00050 |
| Strontium, dissolved (D-Sr) | mg/L | - | - | - | 0.201 | 0.212 |
| Vanadium, dissolved (D-V) | mg/L | - | - | - | 0.00076 | 0.00071 |
| Zinc, dissolved (D-Zn) | mg/L | - | - | - | <0.0010 | <0.0010 |
| **Polycyclic Aromatic Hydrocarbons (PAHs)** | | | | | | |
| Acenaphthene | mg/L | 0.006 | - | - | - | <0.000010 |
| Acridine | mg/L | - | - | - | - | <0.000010 |
| Anthracene | mg/L | - | - | - | - | <0.000010 |
| Benz(a)anthracene | mg/L | - | - | - | - | <0.000010 |
| Benzo(a)pyrene | mg/L | 0.00001 | - | - | - | <0.0000050 |
| Chrysene | mg/L | 0.0001 | - | - | - | <0.000010 |
| Fluoranthene | mg/L | - | - | - | - | <0.000010 |
| Fluorene | mg/L | 0.012 | - | - | - | <0.000010 |
| 1-methylnaphthalene | mg/L | 0.001 | - | - | - | <0.000010 |
| 2-methylnaphthalene | mg/L | 0.001 | - | - | - | <0.000010 |
| Naphthalene | mg/L | 0.001 | - | - | - | <0.000050 |
| Phenanthrene | mg/L | - | - | - | - | <0.000020 |
| Pyrene | mg/L | - | - | - | - | <0.000010 |
| Quinoline | mg/L | - | - | - | - | <0.000050 |
| **Volatile Organic Compounds (VOCs)** | | | | | | |
| Benzene | mg/L | 0.59 | 6.0 | - | - | <0.00050 |
| Ethylbenzene | mg/L | 0.07 | 1.0 | - | - | <0.00050 |
| Methyl-tert-butyl-ether | mg/L | 5 | 0.44 | - | - | <0.00050 |
| Styrene | mg/L | - | - | - | - | <0.00050 |
| Toluene | mg/L | 0.03 | 3.0 | - | - | <0.00040 |
| Total Xylenes | mg/L | 0.07 | 1.0 | - | - | <0.00050 |
| Chlorobenzene | mg/L | 0.025 | - | - | - | <0.00050 |
| 1,2-Dichlorobenzene | mg/L | 0.042 | - | - | - | <0.00050 |

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

## Table C-3:
## West Catchment Field Measurements Collected During the Monitoring Period (September 27 – October 3).

| Parameter | | | Temperature | Dissolved Oxygen (DO) | Salinity | Turbidity | Estimated TSS [3] | pH | Specific Conductivity | Visibility of Sheen |
|---|---|---|---|---|---|---|---|---|---|---|
| **Unit** | | | **°C** | **mg/L** | **ppt** | **NTU** | **mg/L** | **s.u.** | **µS/cm** | |
| **PE-111578 Discharge Limit** | | | - | - | - | - | 25 or 75 [6] | 5.5 - 9.0 | - | - |
| **Lowest Applicable Guideline [1]** | | | - | ≥8 | - | - | - [2] | - [2] | - | - |
| **Station ID** | **Water Type** | **Date** | | | | | | | | |
| Influent [4] | | | | | | | | | | |
| SP-W-IN | Influent | 2026-09-27 10:11 | 14.2 | 10.70 | 0.57 | 16.23 | 15.1 | 8.1 | 1146 | No |
| SP-W-IN | Influent | 2026-09-28 13:09 | 15.0 | 10.32 | 0.79 | 37.78 | 31.2 | 8.0 | 1557 | No |
| SP-W-IN | Influent | 2026-09-29 10:22 | 13.5 | 11.33 | 0.14 | 113.09 | 87.3 | 7.9 | 285 | No |
| SP-W-IN | Influent | 2026-09-30 13:29 | 14.2 | 10.93 | 0.12 | 23.33 | 20.4 | 7.7 | 251 | No |
| SP-W-IN | Influent | 2026-10-01 10:20 | 13.7 | 10.31 | 0.38 | 13.77 | 13.3 | 7.4 | 769 | No |
| SP-W-IN | Influent | 2026-10-02 8:28 | 14.0 | 10.64 | 0.18 | 13.06 | 12.7 | 7.9 | 383 | No |
| SP-W-IN | Influent | 2026-10-03 9:33 | 15.2 | 9.96 | 0.16 | 14.20 | 13.6 | 7.4 | 342 | No |
| 2700GPM-IN | Influent | 2026-09-27 10:21 | 13.9 | 10.33 | 0.57 | 16.47 | 15.3 | 8.2 | 1145 | No |
| 2700GPM-IN | Influent | 2026-09-28 11:00 | 14.3 | 10.08 | 0.86 | 33.95 | 28.3 | 7.80 | 1688 | No |
| 2700GPM-IN | Influent | 2026-09-29 9:57 | 13.6 | 10.57 | 0.31 | 275.11 | 208.2 | 7.50 | 627 | No |
| 2700GPM-IN | Influent | 2026-09-30 13:25 | 14.3 | 10.40 | 0.13 | 33.42 | 27.9 | 7.90 | 276 | No |
| 2700GPM-IN | Influent | 2026-10-01 10:34 | 13.9 | 10.43 | 0.12 | 23.34 | 20.4 | 7.70 | 261 | No |
| 2700GPM-IN | Influent | 2026-10-02 8:21 | 14.1 | 10.38 | 0.2 | 14.7 | 14.0 | 7.90 | 404 | No |
| 2700GPM-IN | Influent | 2026-10-03 8:55 | 14.6 | 10.05 | 0.2 | 10.96 | 11.2 | 7.30 | 408 | No |
| Effluent [5] | | | | | | | | | | |
| SP-W-OUT | Effluent | 2026-09-27 10:59 | 14.1 | 10.59 | 0.58 | 6.92 | 8.2 | 8.1 | 1152 | No |
| SP-W-OUT | Effluent | 2026-09-27 11:00 | 14.1 | 10.51 | 0.57 | 6.86 | 8.1 | 8.1 | 1147 | No |
| SP-W-OUT | Effluent | 2026-09-28 11:27 | 14.8 | 10.31 | 0.70 | 4.93 | 6.7 | 8.1 | 1385 | No |
| SP-W-OUT | Effluent | 2026-09-29 9:53 | 13.7 | 11.28 | 0.38 | 4.36 | 6.3 | 7.2 | 774 | No |
| SP-W-OUT | Effluent | 2026-09-30 17:20 | 14.4 | 10.30 | 0.20 | 10.20 | 10.6 | 7.7 | 315 | No |
| SP-W-OUT | Effluent | 2026-09-30 17:23 | 14.4 | 10.20 | 0.20 | 9.90 | 10.4 | 7.7 | 311 | No |
| SP-W-OUT | Effluent | 2026-10-02 15:35 | 14.9 | 10.22 | 0.18 | 5.55 | 7.1 | 7.8 | 383 | No |
| SP-W-OUT | Effluent | 2026-10-03 13:06 | 15.6 | 9.71 | 0.17 | 4.97 | 6.7 | 7.8 | 350 | No |
| W2700T2-OUT[5] | Effluent | 2026-10-01 [5] | -[5] | -[5] | -[5] | 6.04 | 7.5 | 6.9 | -[5] | -[5] |

**Notes:**
West catchment influents were not discharged to Howe Sound. Results above screening values are only highlighted for comparative purposes.
Results ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of marine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of marine water aquatic life.
Results in orange text exceed the PE-111578 West Sedimentation Pond Discharge Limit.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The WQG was not evaluated for parameters with discharge limits.
[3] TSS concentration is estimated from field turbidity measurements using a site-specific relationship TSS = 0.7458 * [turbidity as NTU] + 3.
[4] Daily field measurements for station SP-W-IN were collected from cell 1 of the West Sedimentation Pond.
[5] As described in Section 1.1, when there is surplus water, West Sedimentation Pond clarified effluent from the individual 2700GPM trains is directed to SP-W-OUT for discharge. 2700GPM clarified effluent from Trains 1, 2, 4 and 5 was intermittently discharged to Howe Sound at the authorized discharge location (SP-W-OUT) each day during the monitoring period (September 27 – October 3). There was no discharge to Howe Sound at SP-W-OUT at the time of monitoring on October 1. Clarified effluent from Train 2 discharged at SP-W-OUT on October 1; therefore, in-line turbidity and pH measurements for Train 2 at the end of the discharge period on October 1 are presented in lieu of field measurements for SP-W-OUT on October 1.
[6] The PE-111578 discharge limit for TSS is 25 mg/L under dry conditions and 75 mg/L for each day of Wet Conditions and for one day following the end of Wet Conditions. The TSS discharge limit for Wet Conditions was applicable on September 28, 29 and 30.

## Table C-4:
## West Catchment Daily Discharge Volumes for the Monitoring Period (September 27 – October 3).

| | West Sedimentation Pond Effluent | West TSS Settling System (2700GPM) Clarified Effluent (Station 2700GPM-OUT)[3] | Water Reclaimed for Construction Purposes (Station 2700GPM-OUT) | West WWTP Treated Effluent [1] (Station WWTP-W-OUT) | Discharge to Howe Sound (Station SP-W-OUT) |
|---|---|---|---|---|---|
| **Unit** | **$m^3$** | **$m^3$** | **$m^3$** | **$m^3$** | **$m^3$** |
| **PE-111578 Discharge Limit** | - | - | - | 120 | - [2] |
| **Date** | | | | | |
| 2026-09-27 | 0 | 2,196 | 0 | 0 | 726 |
| 2026-09-28 | 0 | 3,280 | 0 | 0 | 1,157 |
| 2026-09-29 | 0 | 2,480 | 0 | 0 | 2,625 |
| 2026-09-30 | 0 | 563 | 0 | 0 | 375 |
| 2026-10-01 | 0 | 967 | 0 | 0 | 315 |
| 2026-10-02 | 0 | 1,730 | 0 | 0 | 431 |
| 2026-10-03 | 0 | 1,404 | 0 | 0 | 101 |

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

# *Appendix D: Freshwater Receiving Environment Monitoring Results*

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

| Parameter | Unit | Lowest Applicable Guideline [1, 2] | | Station SW-01 | Station SW-04 | Station SW-02 | Station SW-07 |
|---|---|---|---|---|---|---|---|
| | | | | Woodfibre Creek Lower Reach | East Creek Lower Reach | Mill Creek Lower Reach | Upstream Mill Creek |
| | | | | SW-01 | SW-04 | SW-02 | SW-07 |
| | | | | VA26C5124-001 | VA26C5124-002 | VA26C5124-004 | VA26C5124-003 |
| | | Long Term | Short Term | 2026-09-03 8:43 | 2026-09-03 10:02 | 2026-09-03 13:18 | 2026-09-03 12:23 |
| **General Parameters** | | | | | | | |
| pH - Field | pH units | 6.5 - 9.0 | - | 7.35 | 7.43 | 7.23 | 8.14 |
| Specific Conductivity - Field | µS/cm | - | - | 14 | 236 | 16 | 16 |
| Temperature - Field | °C | - | - | 13.5 | 14 | 12.7 | 12.2 |
| Salinity - Field | ppt | - | - | 0.01 | 0.11 | 0.01 | 0.01 |
| Turbidity - Field | NTU | - | - | 2.27 | 3.86 | 1.86 | 1.37 |
| TSS | mg/L | - | - | <3.0 | <3.0 | <3.0 | <3.0 |
| Dissolved Oxygen - Field | mg/L | >=8 | >=5 | 10.52 | 10.52 | 12.7 | 10.62 |
| Total Hardness | mg/L | - | - | 2.95 | 70.2 | 3.92 | 3.55 |
| Dissolved Hardness | mg/L | - | - | 3.15 | 77.2 | 3.89 | 3.73 |
| **Anions and Nutrients** | | | | | | | |
| Sulphate [2] | mg/L | 128-218 | - | 0.46 | 15.1 | 1.48 | 1.29 |
| Chloride | mg/L | 120 | 600 | 0.5 | 18.9 | 0.6 | 0.58 |
| Fluoride [2] | mg/L | 0.12 | 0.400-1.19 | <0.020 | ***0.279*** | <0.020 | <0.020 |
| Ammonia (N-$NH_3$) [2] | mg/L | 0.343-1.81 | 4.61-17.3 | <0.0050 | 0.0051 | 0.0164 | <0.0050 |
| Nitrite (N-$NO_2$) [2] | mg/L | 0.0200-0.200 | 0.06-0.60 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Nitrate (N-$NO_3$) | mg/L | 3 | 32.8 | 0.0451 | 0.0564 | 0.0771 | 0.0754 |
| Total Organic Carbon (TOC) | mg/L | - | - | 4.04 | 2.38 | 2.05 | 1.96 |
| Total Inorganic Carbon (DOC) | mg/L | - | - | 4.27 | 2.27 | 2.13 | 2.41 |
| **Total Metals** | | | | | | | |
| Aluminum, total (T-Al) [2] | mg/L | 0.0798-0.293 | - | ***0.157*** | 0.0717 | ***0.0915*** | 0.0749 |
| Antimony, total (T-Sb) | mg/L | 0.074 | - | <0.00010 | 0.00103 | <0.00010 | <0.00010 |
| Arsenic, total (T-As) | mg/L | 0.005 | - | 0.00014 | 0.00074 | <0.00010 | <0.00010 |
| Barium, total (T-Ba) | mg/L | 1 | - | 0.0022 | 0.00899 | 0.00251 | 0.00216 |
| Beryllium, total (T-Be) | mg/L | 0.00013 | - | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Boron, total (T-B) | mg/L | 1.2 | 29 | <0.010 | 0.013 | <0.010 | <0.010 |
| Cadmium, total (T-Cd) [2] | mg/L | 0.0000364-0.000118 | 0.000106-0.00147 | <0.0000050 | <0.0000250 | 0.0000061 | 0.0000053 |
| Chromium, total (T-Cr) | mg/L | 0.0025 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Cobalt, total (T-Co) [2] | mg/L | 0.000778-0.000881 | - | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Copper, total (T-Cu) | mg/L | - | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Iron, total (T-Fe) [2] | mg/L | 0.135-0.220 | 1 | 0.055 | 0.149 | 0.021 | <0.010 |
| Lead, total (T-Pb) | mg/L | - | - | 0.000089 | 0.000071 | <0.000050 | <0.000050 |
| Manganese, total (T-Mn) | mg/L | - | - | 0.00148 | 0.0334 | 0.00075 | 0.00041 |
| Molybdenum, total (T-Mo) | mg/L | 0.073 | 46 | 0.000459 | 0.0411 | 0.000638 | 0.000573 |
| Nickel, total (T-Ni) [2] | mg/L | 0.0250-0.0566 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Selenium, total (T-Se) | mg/L | 0.001 | - | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| Silver, total (T-Ag) | mg/L | 0.00012 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Thallium, total (T-Tl) | mg/L | 0.0008 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Uranium, total (T-U) | mg/L | 0.0085 | 0.033 | 0.000758 | 0.000305 | 0.000218 | 0.000204 |
| Vanadium, total (T-V) | mg/L | 0.12 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Zinc, total (T-Zn) | mg/L | - | - | <0.0030 | 0.0033 | <0.0030 | <0.0030 |
| Hexavalent Chromium, total | mg/L | 0.0025 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| **Dissolved Metals** | | | | | | | |
| Cadmium, dissolved (D-Cd) [2] | mg/L | 0.0000176-0.000163 | 0.0000380-0.000409 | <0.0000050 | <0.0000100 | 0.0000055 | 0.0000061 |
| Cobalt, dissolved (D-Co) [2] | mg/L | 0.000389-0.000440 | - | <0.00010 | <0.00010 | <0.00010 | <0.00010 |
| Copper, dissolved (D-Cu) [2] | mg/L | 0.000298-0.000899 | 0.00180-0.00518 | 0.00031 | <0.00020 | ***0.00034*** | 0.00034 |
| Iron, dissolved (D-Fe) | mg/L | - | - | 0.035 | 0.017 | <0.010 | <0.010 |
| Lead, dissolved (D-Pb) [2] | mg/L | 0.00159-0.00293 | - | 0.000059 | <0.000050 | <0.000050 | <0.000050 |
| Manganese, dissolved (D-Mn) [2] | mg/L | 0.135-0.245 | 0.985-4.88 | 0.00065 | 0.0269 | 0.00036 | 0.00032 |
| Nickel, dissolved (D-Ni) [2] | mg/L | 0.000800-0.00170 | 0.0123-0.0152 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Strontium, dissolved (D-Sr) | mg/L | 2.5 | - | 0.00381 | 0.0639 | 0.00568 | 0.0054 |
| Vanadium, dissolved (D-V) | mg/L | - | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Zinc, dissolved (D-Zn) [2] | mg/L | 0.00190-0.00929 | 0.00903-0.0356 | <0.0010 | 0.0019 | <0.0010 | 0.0015 |
| **Polycyclic Aromatic Hydrocarbons (PAHs)** | | | | | | | |
| Acenaphthene | mg/L | 0.0058 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Acridine | mg/L | 0.003 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Anthracene | mg/L | 0.000012 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Benz(a)anthracene | mg/L | 0.000018 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Benzo(a)pyrene | mg/L | 0.00001 | - | <0.0000050 | <0.0000050 | <0.0000050 | <0.0000050 |
| Chrysene | mg/L | - | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Fluoranthene | mg/L | 0.00004 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Fluorene | mg/L | 0.003 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| 1-methylnaphthalene | mg/L | - | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| 2-methylnaphthalene | mg/L | - | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Naphthalene | mg/L | 0.001 | 0.001 | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| Phenanthrene | mg/L | 0.0003 | - | <0.000020 | <0.000020 | <0.000020 | <0.000020 |
| Pyrene | mg/L | 0.00002 | - | <0.000010 | <0.000010 | <0.000010 | <0.000010 |
| Quinoline | mg/L | 0.0034 | - | <0.000050 | <0.000050 | <0.000050 | <0.000050 |
| **Volatile Organic Compounds (VOCs)** | | | | | | | |
| Benzene | mg/L | 0.04 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Ethylbenzene | mg/L | 0.09 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Methyl-tert-butyl-ether | mg/L | 10 | 3.4 | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Styrene | mg/L | 0.072 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Toluene | mg/L | 0.0005 | - | <0.00040 | <0.00040 | <0.00040 | <0.00040 |
| Total Xylenes | mg/L | 0.03 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| Chlorobenzene | mg/L | 0.0013 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |
| 1,2-Dichlorobenzene | mg/L | 0.0007 | - | <0.00050 | <0.00050 | <0.00050 | <0.00050 |

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

## Table D-2:
## Freshwater Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

| **Parameter** | | | | | **Total Methylmercury** | **Total Mercury** |
|---|---|---|---|---|---|---|
| **Unit** | | | | | **µg/L** | **µg/L** |
| **Lowest Applicable Guideline[1]** | | | | | 0.0001 [2] | 0.00052-0.0081 [3,4] |
| **Station** | **Description** | **Sample ID** | **Lab ID** | **Sampling Date** | | |
| SW-01 | Lower Reach of Woodfibre Creek (near the mouth) | SW-01 | VA26C5124-001 | 2026-09-03 | 0.000023 | 0.00187 |
| SW-04 | Lower Reach of East Creek (near the outlet to the outfall culvert) | SW-04 | VA26C5124-002 | 2026-09-03 | <0.000100 | 0.00052 |
| SW-02 | Lower Freshwater Reach of Mill Creek (upstream of the third bridge) | SW-02 | VA26C5124-004 | 2026-09-03 | <0.000020 | 0.00104 |
| SW-07 | Upstream Mill Creek (at the diversion inlet) | SW-07 | VA26C5124-003 | 2026-09-03 | <0.000020 | 0.00107 |

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

## Table D-3:
## Freshwater Dioxin and Furan Toxicity Equivalency Quantity (TEQ) Results Received at the Time of Reporting.

| **Parameter** | | | | | **Lower Bound PCDD/F TEQ** | **Upper Bound PCDD/F TEQ** |
|---|---|---|---|---|---|---|
| **Unit** | | | | | **pg/L** | **pg/L** |
| **Station** | **Water Type** | **Sample ID** | **Lab ID** | **Sampling Date** | | |
| SW-01 | Lower Reach of Woodfibre Creek (near the mouth) | SW-01 | VA26C5125-001 | 2026-09-03 | 0 | 2.27 |
| SW-04 | Lower Reach of East Creek (near the outlet to the outfall culvert) | SW-04 | VA26C5125-002 | 2026-09-03 | 0 | 1.72 |
| SW-02 | Lower Freshwater Reach of Mill Creek (upstream of the third bridge) | SW-02 | VA26C5125-004 | 2026-09-03 | 0 | 3.23 |
| SW-07 | Upstream Mill Creek (at the diversion inlet) | SW-07 | VA26C5125-003 | 2026-09-03 | 0 | 1.94 |

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

# *Appendix E:*
# *Estuarine Water Receiving Environment Results*

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

| Parameter | Unit | Lowest Applicable Guideline [1] | | Station SW-03<br>Mill Creek Estuary<br>SW-03<br>VA26C5124-005<br>2026-09-03 13:22 |
|---|---|---|---|---|
| | | Long Term | Short Term | |
| **General Parameters** | | | | |
| pH - Field | pH units | 7.0 - 8.7 | - | 8.16 |
| Specific Conductivity - Field | µS/cm | - | - | 5230 |
| Temperature - Field | °C | - | - | 13.3 |
| Salinity - Field | ppt | - | - | 2.8 |
| Turbidity - Field | NTU | - | - | 9.99 |
| TSS | mg/L | - | - | <5.4 |
| Dissolved Oxygen - Field | mg/L | >=8 | - | 11.79 |
| Total Hardness | mg/L | - | - | 210 |
| Dissolved Hardness | mg/L | - | - | 201 |
| **Anions and Nutrients** | | | | |
| Sulphate | mg/L | - | - | 86.8 |
| Chloride | mg/L | - | - | 600 |
| Fluoride | mg/L | - | 1.5 | <0.200 |
| Ammonia (N-$NH_3$) | mg/L | 0.87 [2] | 5.8 [2] | <0.0050 |
| Nitrite (N-$NO_2$) | mg/L | - | - | <0.0100 |
| Nitrate (N-$NO_3$) | mg/L | 3.7 | 339 | <0.0500 |
| Total Organic Carbon (TOC) | mg/L | - | - | 2.08 |
| Total Inorganic Carbon (DOC) | mg/L | - | - | 1.83 |
| **Total Metals** | | | | |
| Aluminum, total (T-Al) | mg/L | - | - | 0.256 |
| Antimony, total (T-Sb) | mg/L | - | 0.27 | <0.00010 |
| Arsenic, total (T-As) | mg/L | 0.0125 | - | 0.00016 |
| Barium, total (T-Ba) | mg/L | - | - | 0.00548 |
| Beryllium, total (T-Be) | mg/L | 0.1 | - | <0.000020 |
| Boron, total (T-B) | mg/L | 1.2 | - | 0.155 |
| Cadmium, total (T-Cd) | mg/L | 0.00012 | - | 0.0000068 |
| Chromium, total (T-Cr) | mg/L | - | - | <0.00050 |
| Cobalt, total (T-Co) | mg/L | - | - | <0.00010 |
| Copper, total (T-Cu) | mg/L | 0.002 | 0.003 | 0.00068 |
| Iron, total (T-Fe) | mg/L | - | - | 0.162 |
| Lead, total (T-Pb) | mg/L | 0.002 | 0.14 | 0.00006 |
| Manganese, total (T-Mn) | mg/L | 0.1 | - | 0.00596 |
| Molybdenum, total (T-Mo) | mg/L | - | - | 0.000908 |
| Nickel, total (T-Ni) | mg/L | 0.0083 | - | <0.00050 |
| Selenium, total (T-Se) | mg/L | 0.002 | - | <0.000050 |
| Silver, total (T-Ag) | mg/L | 0.0005 | 0.0037 | <0.000010 |
| Thallium, total (T-Tl) | mg/L | - | - | <0.000010 |
| Uranium, total (T-U) | mg/L | - | - | 0.000268 |
| Vanadium, total (T-V) | mg/L | 0.005 | - | 0.00079 |
| Zinc, total (T-Zn) | mg/L | 0.01 | 0.055 | <0.0030 |
| Hexavalent Chromium, total | mg/L | 0.0015 | - | <0.00050 |
| **Dissolved Metals** | | | | |
| Cadmium, dissolved (D-Cd) | mg/L | - | - | 0.0000067 |
| Cobalt, dissolved (D-Co) | mg/L | - | - | <0.00010 |
| Copper, dissolved (D-Cu) | mg/L | - | - | 0.00032 |
| Iron, dissolved (D-Fe) | mg/L | - | - | <0.010 |
| Lead, dissolved (D-Pb) | mg/L | - | - | <0.000050 |
| Manganese, dissolved (D-Mn) | mg/L | - | - | 0.00108 |
| Nickel, dissolved (D-Ni) | mg/L | - | - | <0.00050 |
| Strontium, dissolved (D-Sr) | mg/L | - | - | 0.235 |
| Vanadium, dissolved (D-V) | mg/L | - | - | <0.00050 |
| Zinc, dissolved (D-Zn) | mg/L | - | - | <0.0010 |
| **Polycyclic Aromatic Hydrocarbons (PAHs)** | | | | |
| Acenaphthene | mg/L | 0.006 | - | <0.000010 |
| Acridine | mg/L | - | - | <0.000010 |
| Anthracene | mg/L | - | - | <0.000010 |
| Benz(a)anthracene | mg/L | - | - | <0.000010 |
| Benzo(a)pyrene | mg/L | 0.00001 | - | <0.0000050 |
| Chrysene | mg/L | 0.0001 | - | <0.000010 |
| Fluoranthene | mg/L | - | - | <0.000010 |
| Fluorene | mg/L | 0.012 | - | <0.000010 |
| 1-methylnaphthalene | mg/L | - | - | <0.000010 |
| 2-methylnaphthalene | mg/L | - | - | <0.000010 |
| Naphthalene | mg/L | 0.001 | - | <0.000050 |
| Phenanthrene | mg/L | - | - | <0.000020 |
| Pyrene | mg/L | - | - | <0.000010 |
| Quinoline | mg/L | - | - | <0.000050 |
| **Volatile Organic Compounds (VOCs)** | | | | |
| Benzene | mg/L | 0.59 | - | <0.00050 |
| Ethylbenzene | mg/L | 0.07 | - | <0.00050 |
| Methyl-tert-butyl-ether | mg/L | 5 | 0.44 | <0.00050 |
| Styrene | mg/L | - | - | <0.00050 |
| Toluene | mg/L | 0.03 | - | <0.00040 |
| Total Xylenes | mg/L | 0.07 | - | <0.00050 |
| Chlorobenzene | mg/L | 0.025 | - | <0.00050 |
| 1,2-Dichlorobenzene | mg/L | 0.042 | - | <0.00050 |

Notes:
Non-detect results are screened using the detection limit value.
Results in ***underlined in bold italics*** exceed the applicable long-term water quality guideline for the protection of estuarine water aquatic life.
Shaded results exceed the applicable short-term water quality guideline for the protection of estuarine and marine water aquatic life.
[1] The lowest applicable guidelines from approved or working BC WQGs, Canadian (CCME) WQGs and Federal WQGs.
[2] The approved total ammonia nitrogen BC WQG is salinity, pH and temperature dependent; see Tables 26E and 26F in BC WQG guidance document.

## Table E-2:

## Estuarine Water Methylmercury and Corresponding Total Mercury Results Received at the Time of Reporting.

| **Parameter** | | | | | **Total Methylmercury** | **Total Mercury** |
|---|---|---|---|---|---|---|
| **Unit** | | | | | **µg/L** | **µg/L** |
| **Lowest Applicable Guideline[1]** | | | | | 0.0001 [2] | 0.0046 [3,4] |
| **Station** | **Description** | **Sample ID** | **Lab ID** | **Sampling Date** | | |
| SW-03 | Mill Creek Estuary | SW-03 | VA26C5124-005 | 2026-09-03 | 0.000023 | 0.00106 |

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

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

| **Parameter** | | | | | **Lower Bound PCDD/F TEQ** | **Upper Bound PCDD/F TEQ** |
|---|---|---|---|---|---|---|
| **Unit** | | | | | **pg/L** | **pg/L** |
| **Station** | **Water Type** | **Sample ID** | **Lab ID** | **Sampling Date** | | |
| SW-03 | Mill Creek Estuary | SW-03 | VA26C5125-005 | 2026-09-03 | 0 | 2.15 |

**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.