# APPENDIX H.3
## Hydrological Assessment

Prepared by: Strum Consulting

**ENVIRONMENTAL IMPACT STATEMENT**
**EVREC Green Energy Hub**
**Exploits Valley Renewable Energy Corporation**

strum

CONSULTING

# HYDROLOGICAL ASSESSMENT
# EVREC Green Energy Hub
# Peters Pond, near Botwood, NL

**May 11, 2026**

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| | |
|---|---|
| BWPA | Botwood Wind Project Area |
| Cm | Centimetre |
| DEM | Digital Elevation Model |
| ECCC | Environment and Climate Change Canada |
| EVREC | Exploits Valley Renewable Energy Corporation |
| EIS | Environmental Impact Statement |
| FDC | Flow duration curves |
| GW | Gigawatt |
| Ha | Hectare |
| HADD | Harmful Alteration, Disruption, and Destruction |
| HEC-HMS | Hydrologic Engineering Centre – Hydrologic Modelling System |
| IDW | Inverse distance weighted |
| IPA | Industrial Project Area |
| Km | Kilometre |
| LTWPA | Leading Tickles Wind Project Area |
| M | Metre |
| Masl | Metres above sea level |
| MLPD | Million litres per day |
| Mm | millimetre |
| MW | Megawatt |
| $M^3/s$ | Metres cubed per second |
| NLECCC | Newfoundland and Labrador Environment, Conservation and Climate Change |
| PA | Project Area |
| PVC | Polyvinyl chloride |
| SARA | Species at Risk Act |
| SLWPA | Seabrights Lake Wind Project Area |
| SPA | Solar Project Area |
| TLWPA | Twin Lakes Wind Project Area |
| WTG | Wind Turbine Generator |
| WPA | Wind Project Area |
| WSC | Water Survey of Canada |
| °C | Degrees Celsius |

# 1.0 INTRODUCTION

Exploits Valley Renewable Energy Corporation (EVREC, the "Proponent"), is proposing to develop, construct, and operate a wind to green ammonia project on the brownfield, former Abitibi lands, near Botwood in central Newfoundland, Canada (the "Project") (Drawing 1, Appendix A). EVREC will develop an onshore wind farm consisting of up to 534 wind turbines, a 150 megawatt (MW) Solar Farm, and associated off-site infrastructure (export and import terminals, access roads, collector substations, and water pipelines). Included as part of the Project will be an Industrial Facility comprised of 2.6 gigawatt (GW) of electrolysers utilizing a combination of proton exchange membrane and aqueous solution units, air separation plants, ammonia plant, electrical energy storage facilities, molecular storage, water purification systems, warehousing, administrative buildings, and other associated utility infrastructure (switchyards, transformers, pipelines, emergency generators, and cooling systems) including an electrical grid connection for critical loads. Collectively the wind to green ammonia project, including all components mentioned above, will be referred to as the "EVREC Green Energy Hub", or "the Project".

The Project nameplate capacity will be up to 3.5 GW of electrical power and produce 925,000 to 1,000,000 tons per year of certified green ammonia. The Project is considered an undertaking under Section 34 (1f) of the Newfoundland and Labrador Environmental Assessment Regulations (2003), where electrical power generation that has a capacity greater than 1 MW and engages in the manufacturing of green hydrogen and ammonia, which requires the registration of an Environmental Impact Statement (EIS). The Project will involve development, construction, operations, decommissioning, and reclamation of wind farms, a solar farm, an industrial facility, and water supply for green hydrogen production and ammonia synthesis, including air separation, water treatment, and ammonia storage.

The Project will use the existing Port of Botwood for its shipping needs, which has historically served various clients across industrial sectors, for over 100 years. The Project is proposed on land parcels totaling 35,834 hectares (ha) in central Newfoundland (defined hereafter as the Project Area). The Project is centered at 49.161441° N, 55.486669° W.

Within the Project Area (PA), siting of wind turbine generators (WTGs) will be within four areas: Botwood, Seabrights Lake, Twin Lakes, and Leading Tickles. The Industrial Facility and Solar Farm, along with associated infrastructure, are co-located on a parcel southwest of the Town of Botwood. For the purposes of this EIS, the Project consists of three components: (i) Wind Farms and transmission line; (ii) Solar Farm; and (iii) hydrogen and ammonia production facilities (defined hereafter as the Industrial Facility).

To produce green hydrogen and ammonia, EVREC will require freshwater from Peters Pond. A hydrological assessment was undertaken to determine the sustainability of the proposed water withdrawal demands from Peters Pond. This Report presents the findings of the hydrological assessment for Peters Pond.

## 1.1 Spatial Boundaries

The spatial boundaries discussed throughout this report are defined as follows:

- Project Area (PA) – the sum of all component project areas
- Wind Project Area (WPA) – the sum of all wind project areas
    - Botwood Wind Project Area (BWPA) – the individual Botwood Wind Project Area.
    - Twin Lakes Wind Project Area (TLWPA) – the individual Twin Lakes Wind Project Area.
    - Leading Tickles Wind Project Area (LTWPA – the individual Leading Tickles Wind Project Area.
    - Seabrights Lake Wind Project Area (SLWPA) – the individual Seabrights Lake Wind Project Area.
- Industrial Project Area (IPA) – the industrial Project component Project Area.
- Solar Project Area (SPA) – the solar Project component Project Area.
- Peters River Watershed – the area where all water drains to the outlet of Peters River (including Peters Pond).

The spatial boundaries are presented in Drawing 2A to F (Appendix A).

## 1.2 Regulatory Context

The *Water Resources Act* S. N. L. 2002 c. T-62 requires an approval from Newfoundland and Labrador Environment, Conservation, and Climate Change (NLECCC) prior to any alterations to a body of water. Therefore, it is necessary to understand what watercourses and water resources are present within the PA prior to development (Government of Newfoundland and Labrador & House of Assembly of Newfoundland and Labrador, 2023).

The *Water Resources Act* S. N. L. 2002 c. T-6.2 defines a body of water as:

> " a surface or subterranean source of fresh or salt water within the jurisdiction of the province, whether that source usually contains liquid or frozen water or not, and includes water above the bed of the sea that is within the jurisdiction of the province, a river, stream, brook, creek, watercourse, lake, pond, spring, lagoon, ravine, gully, canal, wetland and other flowing or standing water and the land occupied by that body of water".

Peters River, which flows into and out of Peters Pond, and Peters Pond were classified as a body of water using this definition and the parameters listed in the Guidelines for Applying to Alter a Body of Water (Government of Newfoundland and Labrador, 2018).

The *Fisheries Act* (Canada, 1985) is the primary federal legislation governing the conservation and protection of fish and fish habitat in Canada. The *Fisheries Act* prohibits any work, undertaking or activity that results in death of fish (other than fishing) and the Harmful Alteration, Disruption, or Destruction (HADD) of fish habitat, unless such activities are expressly authorized under the Act through ministerial approval. As Peters Pond is a confirmed fisheries resource, any activities affecting the pond are subject to the prohibitions

and authorization requirements set out in the Act.

Applicable legislation for the withdrawal of water from Peters Pond includes:

Federal Legislation

- *Fisheries Act* (RSC 1985, c F-14) ss. 34.4 & 35
- *Species at Risk Act* (SARA), S.C. 2002, c. 29

Provincial Legislation

- *Water Resources Act* S. N. L. 2002 c W4.01
  - A Water Use Licence
  - Certificate of Approval for Water Works
  - Section 48 Permit (any physical alteration of a water body or its 15 m buffer)
- *Environmental Protection Act*

## 2.0 SCOPE

The hydrological assessment aims to quantify allowable daily withdrawal rates from Peters Pond to guide the Proponent as to available water supply and to support compliance with associated regulations. A component of this assessment also addresses the seasonal allowance changes and identifies seasonal water withdrawal restrictions. The scope of the hydrological assessment includes:

- Characterize local climate and hydrological conditions within the Peters Pond watershed.
- Summarize results from the baseline surface water monitoring program within Peters Pond watershed.
- Determine a sustainable yield in Peters Pond for the proposed Project.

The hydrological assessment also addresses Section 4.3.2(a)(i) of the EIS Guidelines which states:

> "a water balance study utilizing local empirical data to validate results and consider environmental flows and low flow (drought) conditions to determine the safe yield for this water source".

## 3.0 METHODOLOGY

The full methodology for the hydrological assessment is presented in Figure 3.1 and outlined in the following sections.

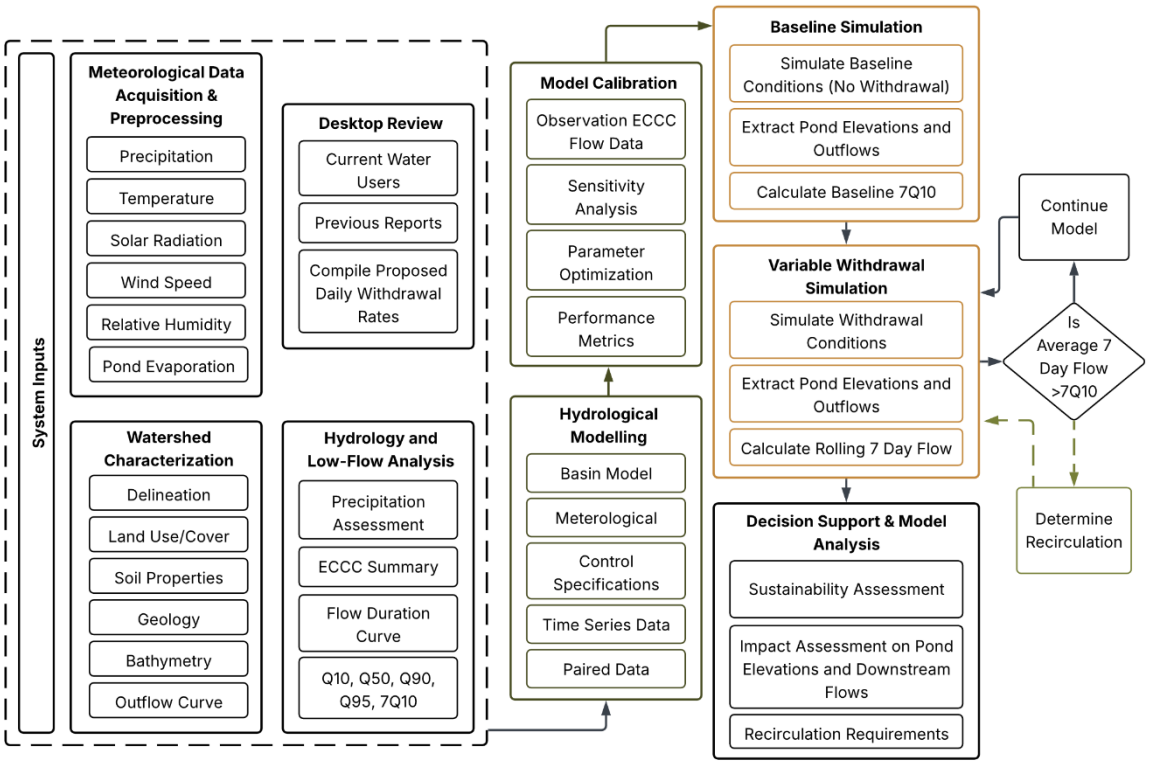


**Figure 3.1: Hydrological Assessment Methodology Flow Chart**

## 3.1 Desktop Review Methodology

The following sections describe the desktop review methodologies used to characterize Peters River watershed. The results of the desktop review helped inform the development of the hydrologic model for sustainable yield analysis.

### 3.1.1 Historical Data Review

Historical records were reviewed as part of the hydrological assessment. The primary sources of information include:

- Water Resources Portal (NLECCC, 2022)
- Environment and Climate Change Canada (ECCC) historical climate data
- Water Survey of Canada (WSC) historical hydrometric data
- Federal CanVec watercourse and waterbody shapefiles (NRCan, 2023)
- Provincial digital elevation model (NRCan, 2024) and LiDAR data
- Provincial Land Cover (NLFAL, 2025)
- Newfoundland and Labrador Land Use Atlas (Newfoundland and Labrador, 2025)
- Online reports

### 3.1.2 Climate and Precipitation Assessment

Data from ECCC climate stations within 100 kilometres (km) from Peters Pond were used for determining the climate conditions for Peters River watershed. The main climate stations used are summarized in Table 3.1 (Drawing 3, Appendix A).

The inverse distance weighted (IDW) interpolation method was used to calculate daily temperature and precipitation values. The interpolated data were analyzed and summarized for the minimum, maximum, and mean values of temperature and precipitation on a monthly and annual basis. The climate normal 30-year period was further analyzed.

**Table 3.1: Main Climate Stations Within 100 km of Peters Pond**

| Station Name | Climate ID | Record Length | Station Location | | Distance from Peters Pond (km) | Elevation (m) |
|---|---|---|---|---|---|---|
| | | | Latitude (°) | Longitude (°) | | |
| Rattling Brk Norris Arm | 84038085 | 1958 to 2008 | 49.1 | -55.3 | 9.5 | 8.8 |
| Wooddale Bishop's Falls | 8404310 | 1974 to 2011 | 49.0 | -55.6 | 11.2 | 45.7 |
| Grand Falls | 8402050 | 1934 to 2006 | 48.9 | -55.7 | 25.2 | 60.0 |
| Point Leamington | 8402966 | 1982 to 2017 | 49.3 | -55.4 | 26.8 | 7.6 |
| Badger (Aut) | 8400301 | 1973 to Present | 49.0 | -56.1 | 48.8 | 103.0 |
| Gander Int'l A | 8401700 | 1937 to 2012 | 49.0 | -54.6 | 63.6 | 151.0 |
| Gander Airport CS | 8401705 | 2005 to Present | 49.0 | -54.6 | 64.3 | 151.0 |
| Gander Intl A | 8401703 | 2012 to Present | 48.9 | -54.6 | 64.6 | 151.0 |
| Twillingate (Aut) | 8404025 | 1993 to 2023 | 49.7 | -54.8 | 79.7 | 92.3 |
| Middle Arm | 8402644 | 1988 to 2021 | 49.7 | -56.1 | 80.9 | 47.8 |
| Millertown RCS | 8402757 | 2013 to 2023 | 48.8 | -56.5 | 86.7 | 204.0 |
| Exploits Dam | 8401550 | 1956 to 2008 | 48.8 | -56.6 | 92.8 | 154.0 |
| La Scie | 8402520 | 1984 to Present | 49.9 | -55.7 | 94.0 | 194.0 |
| Gambo | 8401651 | 1982 to 2006 | 48.8 | -54.2 | 95.3 | 17.0 |

km: kilometre
m: metre

### 3.1.3 Delineation of Drainage Area

The outlet from Peters Pond and Peters River watershed was delineated using GIS Spatial Analyst tools (ArcGIS Pro Version 3.2.2) and a provincially available digital elevation model (DEM) (Drawing 4, Appendix A).

The DEM was conditioned with culverts and structures to represent water flow accurately. The DEM elevations were corrected at these locations to allow water to flow through culverts and structures. Once conditioned, flow direction and accumulation were determined, and the drainage area at the outlet of Peters River was delineated. The resultant drainage area was inspected against stream networks to ensure accuracy, and any adjustments deemed necessary were completed. The delineated drainage area for the outlet from Peters Pond and Peters River were determined to be 175.0 $km^2$, and 189.6 $km^2$, respectively (Drawing 4, Appendix A).

### 3.1.4 Land Use/Land Cover

The land cover in Peters River watershed was assessed to inform the hydrologic model for vegetation type, impervious areas, runoff, infiltration, and evapotranspiration (Drawing 5, Appendix A). The FFA – Land Cover – Newfoundland Atlas (2025) was used to assess land cover in Peters River watershed and is summarized in Table 3.2.

**Table 3.2: Land Cover for Peters River Watershed**

| Land Cover Type | Area (km$^2$) | Percentage of Peters River Watershed (%) |
|---|---|---|
| Non-Commercial Forest Land | 88.26 | 46.55 |
| Commercial Forest Land | 39.75 | 20.96 |
| Agriculture | 10.00 | 5.27 |
| Bog | 24.79 | 13.07 |
| Cleared Land | 1.33 | 0.70 |
| Rock Barren | 0.21 | 0.11 |
| Residential | 1.73 | 0.91 |
| Road | 0.29 | 0.15 |
| Transmission Line | 0.72 | 0.38 |
| Soil Barren | 12.99 | 6.85 |
| Small Island | 0.01 | <0.00 |
| Treed Bog | 1.20 | 0.64 |
| Wet Bog | 2.37 | 1.25 |
| Water Body | 5.96 | 3.14 |
| **Total** | **189.6** | **100** |

### 3.1.5 Soil Analysis

The underlying soils across Peters River watershed were analyzed through desktop resources to determine soil water storage properties and the tendency for water to run off or infiltrate the ground surface.

The soils within Peters River watershed consists of Alderburn (M1), New Bay (M5), Peters Arm (F2), Deadwolf Pond (O1), and Mint Pond (O2) (Table 3.3). ‘M’ denotes soils developed on morainal deposits, ‘F’ denotes soils developed on glaciofluvial deposits, and ‘O’ denotes soils developed on organic deposits. These soils range from poor to well drained (Natural Resources Canada, 2011).

**Table 3.3: Soils in Peters River Watershed**

| Soil Type | Parent Material | Map Unit | Significant Characteristics | Area (km$^2$) |
|---|---|---|---|---|
| Peters Arm | Coarse to moderately coarse textured | F2 | Well to imperfectly drained soils | 10.68 |
| Alderburn | Moderately stony moderately coarse to coarse textured | M1 | Mostly imperfectly drained soils with lateral water movement | 111.18 |
| New Bay | Stony coarse to moderately coarse textured | M5 | Imperfectly drained soils, affected by seepage water | 39.04 |

| Soil Type | Parent Material | Map Unit | Significant Characteristics | Area ($km^2$) |
|---|---|---|---|---|
| Deadwolf Pond | Deep undecomposed sphagnum peat underlain by unconsolidated material or bedrock | O1 | Poorly drained fibrous and porous soils | 19.53 |
| Mint Pond | Shallow (40 to 160 cm) moderately decomposed sedge fen peat underlain by unconsolidated material or bedrock | O2 | Very poorly drained soils often associated with percolating groundwater or streams | 0.01 |

## 3.2 Field Surveys Methodology

Field survey methodologies for bathymetry and topographic surveying and surface water monitoring are described in the following sections.

### 3.2.1 Bathymetry Survey

Winter soundings of Peters Pond were conducted on February 19, 21, and 22 of 2024 by Landmark Surveys. Cross-sections at approximately 100 metre (m) spacing were taken using a gas-powered auger, lead line, RTK GPS, and snowmobile. An increased spacing of approximately 50 m was observed at the initial proposed intake location at the northern neck of Peter's Pond (Drawing 4, Appendix A). After analysing the bathymetry, the water intake was relocated farther south on the western side of Peter's Pond as the intake can reach deeper depths with a shorter horizontal run of piping. The new location may undergo a more detailed bathymetric survey for detailed engineering, but the current location and design are based on the original 100 m sounding spacing, which indicate a consistent depth trend along the western side of the pond.

Soundings were taken from the top of ice as a reference surface to pond bottom. Top of ice at the sounding auger holes were observed with RTK GPS for horizontal position and georeferenced elevation. Bathymetric data points were provided by Landmark Surveys and analyzed in ArcGIS Pro (Version 3.2.2).

The provincial DEM and bathymetric data were used to develop a stage-storage-area relationship for Peters Pond. The relationship was determined using the storage capacity toolbox in ArcGIS Pro, which creates a table containing elevations, storage capacities, and surface area at specified elevation increments. For the hydrological assessment, the elevation increments were set to 0.25 m.

### 3.2.2 Surface Water Level

Baseline water level was collected at three locations from August 27 to December 4, 2024, and from April 9 to November 28, 2025, on an hourly timestep, to characterize hydrologic conditions across Peters River watershed (Table 3.4). Solinst Levelogger® pressure transducers were installed in stilling wells to collect water level data. A Solinst Barologger® was installed to compensate water pressure readings.

During each site visit water levels were manually measured at installed staff gauges on the polyvinyl chloride (PVC) slotted pipe. Monitoring locations were selected to represent the inflow and outflow of Peters Pond, and the water levels within Peters Pond. Data collected were used to validate runoff characteristics and support calibration of the hydrologic model.

**Table 3.4: Surface Water Level Monitoring Locations**

| Location ID | Location Description | Location | |
|---|---|---|---|
| | | Latitude (°) | Longitude (°) |
| PP-IN | Peters Pond Inlet | 49.0743 | -55.4479 |
| PP-WB | Peters Pond | 49.0920 | -55.4173 |
| PP-OUT | Peters Pond Outlet | 49.1039 | -55.3966 |

Hydrologic conditions were also assessed using data from the Water Survey of Canada hydrometric station Peters River near Botwood (ID: 02YO006). The hydrometric station is located approximately 2.1 km downstream from the pond outlet (following the natural river channel), or approximately 1.8 km planar distance (49.1036°, -55.3967°; Drawing 3, Appendix A). The gross drainage area is 177 $km^2$ and has associated data from 1981 to present.

### 3.2.3 Peters Pond Outfow

A cross-sectional survey at the outlet of Peters Pond and the stilling well location downstream of Peters Pond was conducted on May 28, 2025, and May 23, 2025, respectively. Topographic surveying was conducted using a RTK GPS by Landmark Surveys. Cross-section points were surveyed at 0.10 m to 0.40 m intervals across the channel.

A stage-discharge relationship for the pond outlet was developed by combining the surveyed cross-section with an estimated channel slope and Manning's roughness coefficient. Discharge values were calculated using Manning's equation to develop a rating curve. Calculated flows were compared against historical flow measurements from Water Survey of Canada's hydrometric station downstream of the pond (Peters River near Botwood; ID: 02YO006). Manual stream stage and discharge measurements will continue to be taken to validate the stage-discharge relationship.

## 3.3 Proposed Water Withdrawal

EVREC provided daily water demands based on process water requirements on an annual basis. The daily withdrawal rates were applied to the entire model simulation period on a daily timestep (See Section 3.4 for model methodology). Figure 3.2 and Table 3.5 present average monthly water withdrawal requirements. Water demands vary from 0.59 million litres per day (MLPD) (0.0068 $m^3/s$) to 13.68 MLPD (0.158 $m^3/s$), with averaged monthly water demands reduced during the summer low-flow period (Table 3.5). EVREC proposes an annual operation water withdrawal of 3,018,340 $m^3$ (0.096 $m^3/s$) from Peters Pond. Prior to construction of the Industrial Facility, EVREC will apply for a water use licence from NLECCC for water use from Peters Pond and will work with DFO to determine if a Fisheries Act Authorization is required.

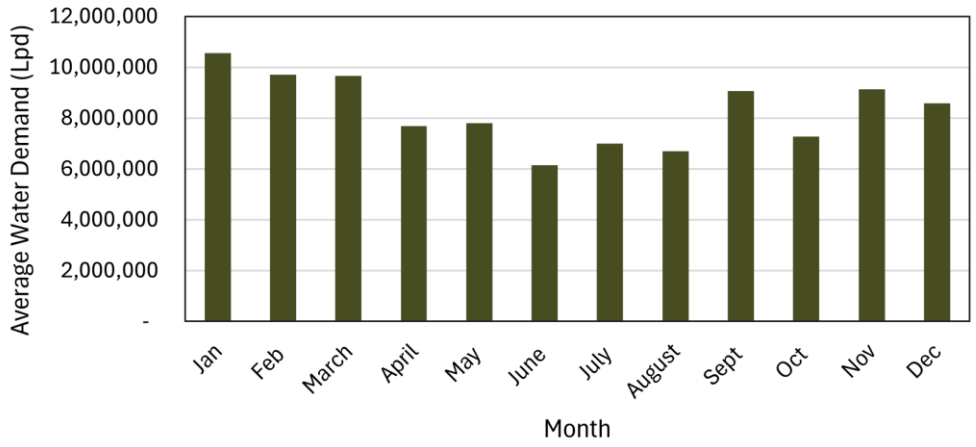


**Figure 3.2: Average Daily Water Demand**

**Table 3.5: Water Demand Statistics**

| Month | Average Daily Water Demand (MLPD) | Minimum Daily Water Demand (MLPD) | Maximum Daily Water Demand (MLPD) |
|---|---|---|---|
| January | 10.55 | 4.88 | 13.68 |
| February | 9.71 | 1.44 | 13.68 |
| March | 9.67 | 1.44 | 13.68 |
| April | 7.68 | 0.59 | 13.68 |
| May | 7.81 | 1.44 | 13.68 |
| June | 6.16 | 1.40 | 13.58 |
| July | 6.99 | 1.44 | 13.68 |
| August | 6.71 | 0.71 | 13.68 |
| September | 9.07 | 2.08 | 13.68 |
| October | 7.28 | 1.44 | 13.68 |
| November | 9.13 | 1.44 | 13.68 |
| December | 8.59 | 1.44 | 13.68 |

MLPD = Million Litres Per Day

## 3.4 Hydrologic Model

A hydrological model was developed using the Hydrologic Engineering Centre – Hydrologic Modelling System (HEC-HMS) software by the US Army Corps of Engineers (USACE, 2020). It has been widely adopted as the standard hydrologic model as it simulates rainfall, direct runoff, and routing at short- and long-time scales.

HEC-HMS was used to model hydrologic processes such as infiltration, evapotranspiration, snowmelt, and soil moisture accounting. Peters River watershed was modelled in HEC-HMS as a basin model. The hydrologic model was divided into six subbasins based on land cover, soil information, and topography to represent the physical watershed. A drainage network was defined to represent the main Peters River network (Drawing 6, Appendix A).

Within HEC-HMS, five major input components were used: the basin model, meteorological

model, control specifications, time-series data, and paired data. For the basin and meteorological model, Table 3.6 outlines the selected methods that were used.

**Table 3.6: HEC-HMS Basin Model and Meteorological Model Selected Methods**

| Basin Model | | Meteorological Model | |
|---|---|---|---|
| **Type** | **Method Used** | **Type** | **Method Used** |
| Discretization | None | Temperature | Mean Daily |
| Canopy | Simply Canopy | Precipitation | Daily Accumulative |
| Surface | Simple Surface | Shortwave | Pyranograph |
| Loss | Soil Moisture Accounting | Longwave | Pygeograph |
| Transform | Clark Unit Hydrograph | Snowmelt | Temperature Index |
| Baseflow | Linear Reservoir | Evapotranspiration | Priestly Taylor |

Mean daily temperature and daily accumulative precipitation were used as inputs to the meteorologic model. Other climate parameters (e.g., shortwave and longwave radiation) were downloaded from the NASA POWER data portal (NASA, 2025). As Peters River watershed experiences snow for parts of the year, the temperature index was initiated to simulate snowpack and snowmelt processes.

Peters Pond reservoir was modelled by inputting bathymetric stage-storage-area relationship (Section 3.2.1). The stage-discharge relationship for the pond outlet was inputted (Section 3.2.3).

Daily streamflow data from WSC's hydrometric station Peters River near Botwood (ID: 02YO006) was used to calibrate the model. The hydrologic model was simulated from January 1, 2000, to December 31, 2025, on a daily timestep. Optimization trials were conducted to adjust several subbasin parameters within acceptable limits found within the literature. These values were then used to calibrate the model from 2016 to 2019 and validate the model from 2020 to 2023. Once the model was calibrated, the model parameters were applied for the entire assessment period from 2000 to 2025. Proposed water withdrawal rates were modelled using daily rates from Peters Pond and compared to baseline pond water levels and outflows.

## 3.5 Low Flow Analysis

A low-flow analysis was conducted to determine if the proposed water withdrawal provides acceptable ecological protection downstream in Peters River. The analysis compares modelled outflows from Peters Pond under baseline conditions and the proposed withdrawal conditions using a continuous daily hydrological model (Section 3.4). Daily simulated outflows were ranked from highest to lowest discharge from Peters Pond to develop flow duration curves (FDCs) for both baseline and withdrawal conditions. Comparison of baseline and withdrawal FDCs were used to quantify reductions in low-flow percentiles and to evaluate potential alteration of environmental flows.

Peters Pond outflow statistics were calculated for both scenarios using simulated daily discharge data (e.g., mean annual discharge, monthly average discharge). To further

evaluate minimum outflow requirements, the annual minimum 7-day moving average flow was calculated for each year. A frequency analysis was conducted to estimate the 10-year recurrence interval low flow (referred to as 7Q10), representing low-flow conditions downstream in Peters River.

# 4.0 DESKTOP RECORDS REVIEW

The historical/desktop review findings are presented in the sections below.

## 4.1 Provincial Geospatial Databases

The Water Resources Portal for Newfoundland and Labrador (2025) was reviewed for Peters River watershed. The following observations were noted.

- Black spruce (*Picea mariana*) and aspen (*Populus spp*.) forest cover types predominate the watershed with some balsam fir (*Abies balsamea*).
- There is an abandoned low-head concrete dam (Peters River Dam; 49.11202°, -55.38016°) located downstream of Peters Pond that was previously used as the old water supply for the Town of Botwood.
- No hydro-electric generating station exists in the watershed.
- No mines are present in the watershed.
- A small portion of the northwest area of Peters River watershed is located in the Northern Arm Lake Public Water Supply Area.
- Four agricultural water withdrawal permits are currently issued in Peters River watershed.

## 4.2 Current Water Users

A desktop review identified four approved water withdrawals in Peters River watershed (Table 4.1). The total active water withdrawals in the watershed were calculated to be 193,200 $m^3$ per year. Of the four active water withdrawals, one withdraws directly from Peters River (20-11222), whereas the other three withdraw from unnamed water bodies near Peters River. All water withdrawals are located upstream of Peters Pond and therefore are not anticipated to be impacted by the proposed water withdrawal from Peters Pond.

**Table 4.1: Active Water Withdrawals in Peters River Watershed**

| Withdrawal License Number | Maximum Annual Rate ($m^3$) | Expiry Date |
|---|---|---|
| 20-11427 | 10,000 | 2025-10-26 |
| 20-11523 | 120,000 | 2025-12-09 |
| 20-11548 | 61,700 | 2025-12-30 |
| 20-11222 | 1,500 | 2025-08-06 |

## 4.3 Previous Reports

The Town of Botwood Regional Water Supply Study completed by Newfoundland and Labrador Consulting Engineers Limited in 2002 was reviewed. The report was completed to support the construction of a water transmission main from the Exploits Regional Water Supply Line to Botwood and Peterview to replace the water supply at Peters River

(Registration Number: 1065).

Water meter records were available from 1994, 1995, 1996, and 1998 (Table 4.2). The maximum water withdrawal from Peters River, downstream of Peters Pond during that period was 4.32 MLPD. The report details the main two reasons for abandoning the Peters River water supply and transferring to the Exploits Regional Water Supply Line. These reasons included raw water quality concerns and deterioration of old lead piping and fittings in the distribution system, and this report did not discuss water quantity as a limiting factor.

**Table 4.2: Water Meter Records**

| Year | Average Daily (MLPD) |
|---|---|
| 1998 | 3.78 |
| 1996 | 4.32 |
| 1995 | 4.05 |
| 1994 | 4.11 |

# 5.0 CLIMATE

## 5.1 Climate

Peters Pond watershed is located in the central Newfoundland interior climate region and exhibits a continental-influence boreal maritime climate. The watershed is influenced by the North Atlantic and experiences seasonal variation in air temperatures, along with winter snow accumulation. Atmospheric circulation over central Newfoundland is dominated by low-pressure systems that track from west to east across the island. These systems are most active during the fall and winter and reduce in strength in the summer.

Data from ECCC climate stations within 100 km from Peters Pond were used for determining the climate conditions for Peters River watershed. Based on the model simulation period (2000 to 2025), the average annual precipitation is approximately 1071.64 mm, and the mean air temperature is 5.02°C (Table 5.1). Air temperatures typically drop below zero between December and March every year. Precipitation tends to be lower in April, May, and June and increases in the late fall and early winter months (Figure 5.1). Air temperature follows a seasonal sinusoidal pattern, with maximum air temperatures exhibited during the summer (Figure 5.1).

Approximately 30% to 40% of annual precipitation falls as snowfall during the winter months, contributing to seasonal snowpack accumulation instead of immediate rainfall-runoff. As a result, significant spring freshet occurs in April and May when rising air temperatures result in rapid snowmelt. Peak annual discharge is generally associated with this snowmelt period.

**Table 5.1: Climate Normals Representative for Peters Pond Watershed**

| Climate Statistics for 2000 to 2025 | | | | | | | | | | | | | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Mean Temperature (°C) | -5.83 | -6.52 | -3.29 | 2.11 | 7.08 | 12.44 | 17.42 | 17.09 | 12.75 | 7.29 | 2.33 | -2.68 | 5.02 |
| Max Temperature (°C) | 7.21 | 7.25 | 9.20 | 15.43 | 22.91 | 27.39 | 29.64 | 28.85 | 25.66 | 20.14 | 15.08 | 9.63 | --- |
| Min Temperature (°C) | -20.20 | -21.61 | -18.48 | -9.73 | -3.29 | 0.43 | 5.66 | 5.47 | 0.84 | -2.94 | -9.05 | -15.46 | --- |
| Precipitation (mm) | 96.43 | 93.37 | 89.97 | 75.41 | 79.62 | 88.93 | 97.50 | 100.27 | 109.67 | 117.18 | 123.29 | 109.76 | 1071.64 |

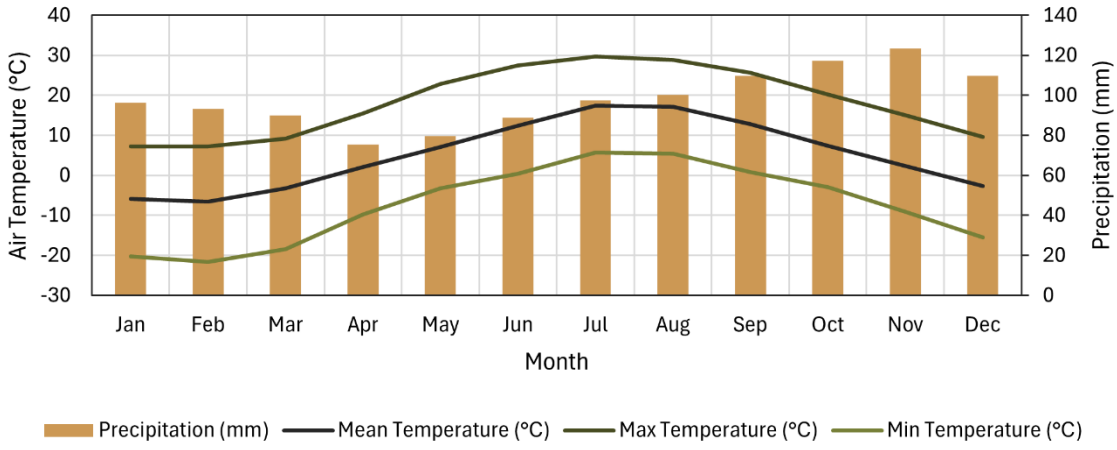


**Figure 5.1: Climate Statistics for Peters Pond Watershed (2000 to 2025)**

## 5.2 Precipitation

An annual exceedance probability distribution was developed for the climate record (2000 to 2025), a total of 26 years. Return periods were calculated using annual precipitation rates fit with a normal distribution (Table 5.2).

The extreme one-day precipitation event was 107.9 mm on October 10, 2016. The maximum annual precipitation was 1432.7 mm in 2016, and the minimum annual precipitation was 900.1 mm in 2001.

**Table 5.2: Annual Precipitation Return Periods**

| Return Period (Year) | Precipitation (mm) |
|---|---|
| 5 | 1287.3 |
| 10 | 1410.3 |
| 20 | 1430.0 |

### 5.3 Evapotranspiration

The HEC-HMS model calculates potential evapotranspiration on the surface of vegetation and the land. This was incorporated into the model via 'Soil Moisture Accounting' as a loss method, and the Priestley-Taylor Method was used based on shortwave radiation and temperature inputs. The calculated evapotranspiration was applied to each subbasin.

### 5.4 Lake Evaporation

Climate normals (1981–2010) for monthly lake evaporation were taken from the ECCC Gander International Airport climate station (Climate ID: 8401700) and are presented in Table 5.3). This station was selected due to its data availability and proximity to Peters Pond. The annual climate normal lake evaporation is 412 mm and was applied to the surface area of Peters Pond.

**Table 5.3: Climate Normals (1981–2010) Lake Evaporation for Gander International Airport Climate Station**

| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lake Evaporation (mm) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 105.0 | 141.7 | 102.3 | 63.0 | 0.0 | 0.0 | 0.0 | 412.0 |

## 6.0 FIELD DATA INTERPRETATION

### 6.1 Peters Pond Storage

Table 6.1 presents the elevation-storage-area relationship for Peters Pond. Peters Pond is relatively shallow, with a maximum depth of approximately 12 m. The total storage associated with the estimated water elevation at the time of the bathymetry survey (25.3 masl) was calculated to be 3.32E6 $m^3$ (Drawing 7, Appendix A). Figures 6.1 and 6.2 show the elevation-storage and elevation-area relationship, respectively.

Inflows to Peters Pond that contribute to the overall storage include flows from Peters River, direction precipitation, and any contributions due to groundwater.

Given the reservoir volumes of Peters Pond, if water was being withdrawn for 30 days with no inflow at a rate of 0.096 $m^3/s$ (average requested EVREC withdrawal rate), the withdrawal would account for approximately 7.5% of Peters Pond storage.

**Table 6.1: Elevation-Storage-Area Relationship for Peters Pond**

| Elevation (masl) | Storage ($m^3$) | Area ($m^2$) |
|---|---|---|
| 13.25 | 0 | 0 |
| 13.50 | 201 | 904 |
| 13.75 | 468 | 1,356 |
| 14.00 | 992 | 2,712 |
| 14.25 | 1,891 | 4,068 |
| 14.50 | 3,454 | 8,589 |
| 14.75 | 5,709 | 10,849 |

| Elevation (masl) | Storage ($m^3$) | Area ($m^2$) |
|---|---|---|
| 15.00 | 8,848 | 14,917 |
| 15.25 | 13,231 | 20,342 |
| 15.50 | 18,796 | 25,766 |
| 15.75 | 25,907 | 31,643 |
| 16.00 | 34,738 | 42,040 |
| 16.25 | 46,335 | 49,724 |
| 16.50 | 59,918 | 58,313 |
| 16.75 | 75,963 | 68,258 |
| 17.00 | 94,413 | 80,463 |
| 17.25 | 117,694 | 103,065 |
| 17.50 | 146,025 | 122,955 |
| 17.75 | 179,215 | 141,940 |
| 18.00 | 217,114 | 160,474 |
| 18.25 | 259,455 | 176,748 |
| 18.50 | 305,445 | 192,117 |
| 18.75 | 355,447 | 208,842 |
| 19.00 | 409,402 | 222,856 |
| 19.25 | 466,653 | 236,417 |
| 19.50 | 527,707 | 250,882 |
| 19.75 | 592,208 | 264,443 |
| 20.00 | 660,197 | 279,361 |
| 20.25 | 732,122 | 296,538 |
| 20.50 | 807,603 | 308,291 |
| 20.75 | 886,161 | 321,852 |
| 21.00 | 968,800 | 337,222 |
| 21.25 | 1,055,245 | 351,687 |
| 21.50 | 1,145,112 | 366,604 |
| 21.75 | 1,238,751 | 384,686 |
| 22.00 | 1,336,983 | 399,151 |
| 22.25 | 1,439,492 | 420,849 |
| 22.50 | 1,547,186 | 439,383 |
| 22.75 | 1,659,660 | 463,341 |
| 23.00 | 1,778,503 | 487,299 |
| 23.25 | 1,903,448 | 513,065 |
| 23.50 | 2,035,833 | 549,228 |
| 23.75 | 2,176,405 | 579,967 |
| 24.00 | 2,326,006 | 652,745 |
| 24.25 | 2,495,693 | 704,730 |
| 24.50 | 2,680,433 | 771,632 |
| 24.75 | 2,882,059 | 840,342 |
| 25.00 | 3,101,947 | 1,109,306 |
| 25.25 | 3,382,583 | 1,134,620 |
| 25.50 | 3,668,493 | 1,155,414 |

| Elevation (masl) | Storage ($m^3$) | Area ($m^2$) |
|---|---|---|
| 25.75 | 3,959,854 | 1,173,947 |
| 26.00 | 4,255,830 | 1,391,831 |

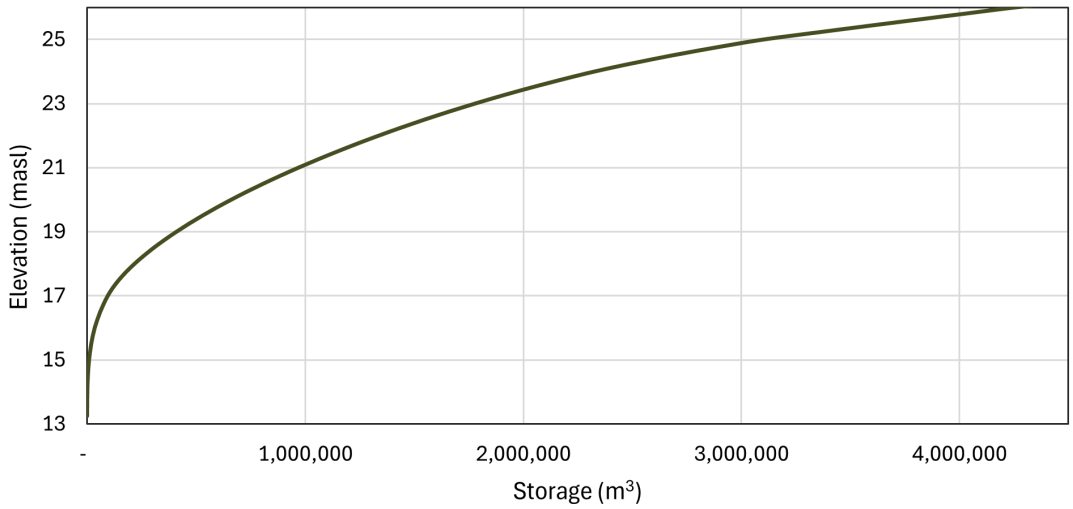


**Figure 6.1: Elevation-Storage Relationship for Peters Pond**

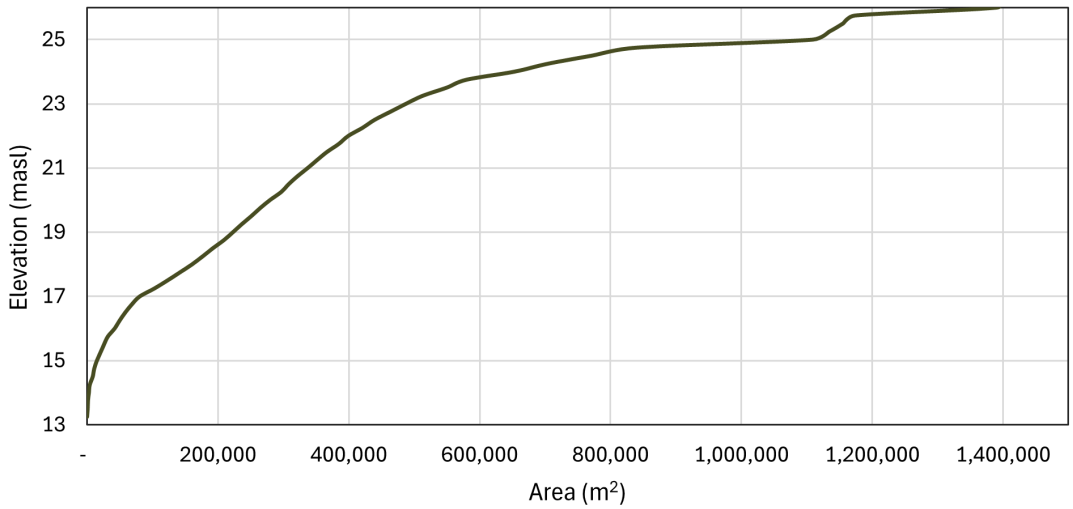


**Figure 6.2: Elevation-Area Relationship for Peters Pond**

## 6.2 Peters Pond Outlet

The outlet of Peters Pond is a naturalized channel with an uncontrolled outflow that discharges into Peters River and ultimately into Botwood Harbour. The outflow channel was surveyed by Landmark Surveys on May 28, 2025 (Figure 6.3; Figure 6.4). At the time of the survey, the water surface elevation was 25.06 metres above sea level (masl), with corresponding channel width of approximately 19.0 m.

The surveyed thalweg elevation at the outlet control was 24.18 masl (Figure 6.3), defining the effective low-flow control for the pond. Channel morphology and substrate observed at the outlet indicate a stable control with a high-water elevation mark at approximately 25.20 masl. No downstream backwater effects were observed at the time of the survey, and the outlet is assumed to operate under free outflow conditions within the range of modelled stages.

The thalweg streambed elevation was 24.18 masl (Figure 6.3).

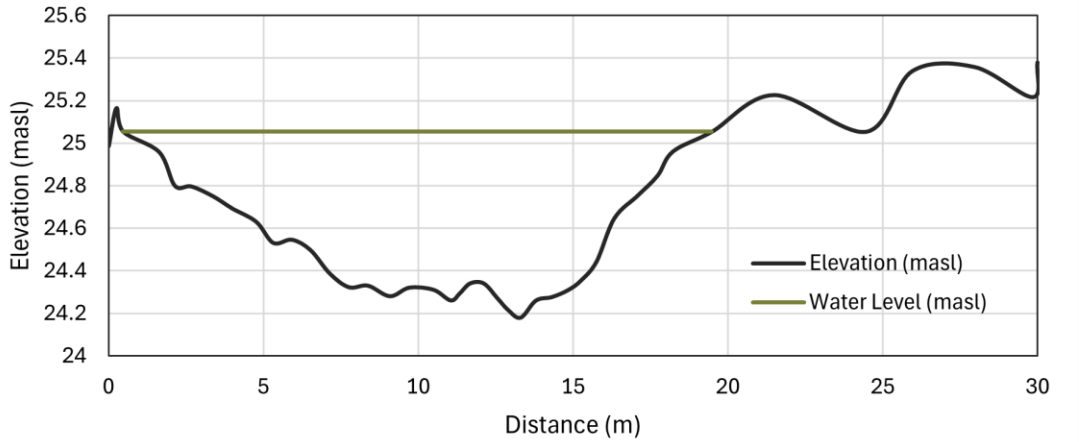


**Figure 6.3: Elevation-Area Relationship for Peters Pond**

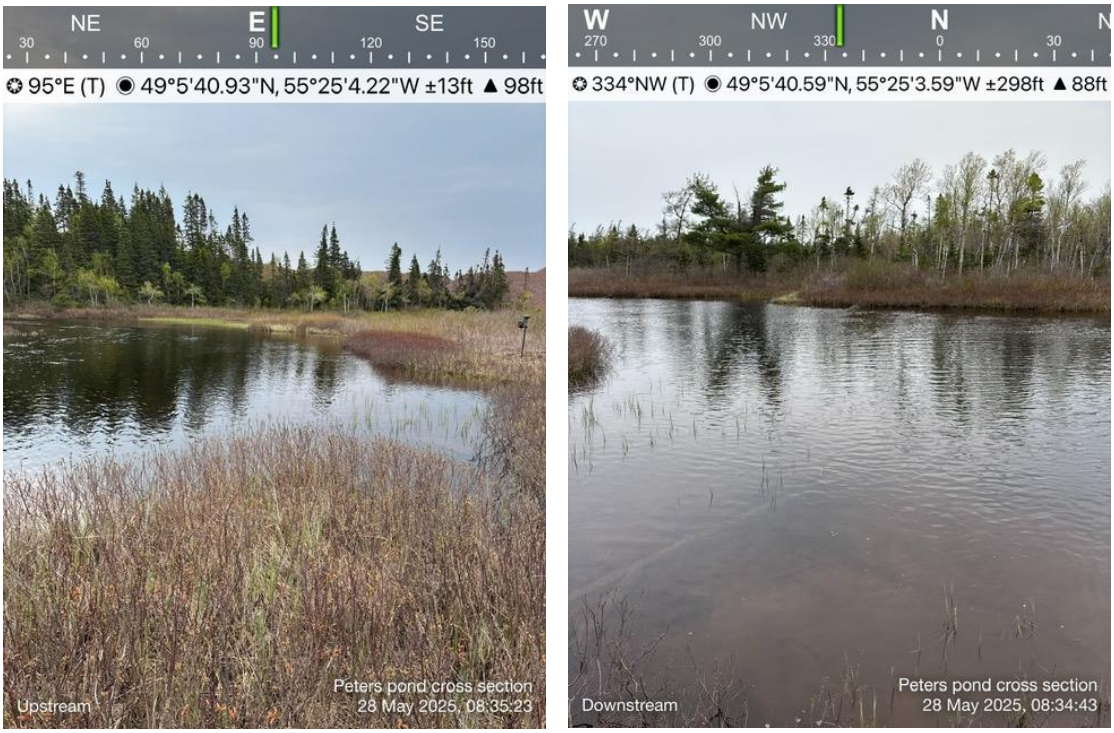


**Figure 6.4: Elevation-Area Relationship for Peters Pond**

## 6.3 Peters River Hydrometric Monitoring

### 6.3.1 ECCC Hydrometric Station

Monthly streamflow patterns downstream of Peters River were analyzed using data from the federally operated ECCC hydrometric station Peters River near Botwood (ID: 02YO006). The mean, minimum, and maximum daily flowrates for each month were summarized from 1980 to 2025, representing 46 years of data.

Peak flows typically occur during the spring freshet in April, while lowest flows generally occur during late summer. Monthly mean discharge ranges from approximately 1.86 $m^3/s$ in July to 12.56 $m^3/s$ in April, demonstrating strong seasonal variability. The lowest flow on record was 0.11 $m^3/s$ on August 17, 2025, and the highest flow on record was 131.0 $m^3/s$ on January 14, 1983.

**Table 6.2: Monthly Summarized Flow Statistic for Peters River near Botwood (ID: 02YO006)**

| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Flow ($m^3/s$) | 2.91 | 2.76 | 4.45 | 12.56 | 6.81 | 3.27 | 1.86 | 1.96 | 3.01 | 4.08 | 5.25 | 4.32 | 4.43 |
| Min. Flow ($m^3/s$) | 0.31 | 0.30 | 0.40 | 0.54 | 0.77 | 0.23 | 0.14 | 0.11 | 0.15 | 0.28 | 0.52 | 0.35 | --- |
| Max. Flow ($m^3/s$) | 131.0 | 49.8 | 51.6 | 67.7 | 51.6 | 34.0 | 30.7 | 52.6 | 60.6 | 81.5 | 34.9 | 40.7 | --- |

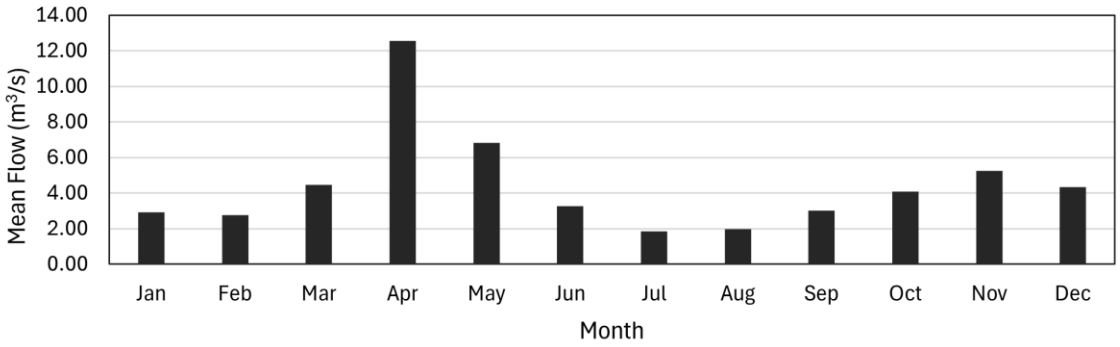


**Figure 6.5: Mean Daily Flows for Peters River near Botwood Hydrometric Station**

An FDC was developed using the complete daily discharge record by ranking flows in descending order and assigning exceedance probabilities (Figure 6.6). The FDC characterizes the percentage of time that specific discharges are equaled or exceeded and shows the full range of hydrologic variability. Based on the FDC, the discharge that exceeded 95% of the time (Q95) is 0.46 $m^3/s$, the discharge that exceeded 90% of the time (Q90) is 0.63 $m^3/s$, the median flow (Q50) is 2.42 $m^3/s$, and the discharge that exceeded 10% of the time (Q10) is $m^3/s$. In addition, low-flow frequency analysis of the annual minimum 7-day average discharge was calculated to estimate the 7Q10 flow. The flow representing the 7Q10 was calculated to be 0.21 $m^3/s$ using Log-Pearson Type III and 0.20 $m^3/s$ using Weibull Interpolation fitting distribution.

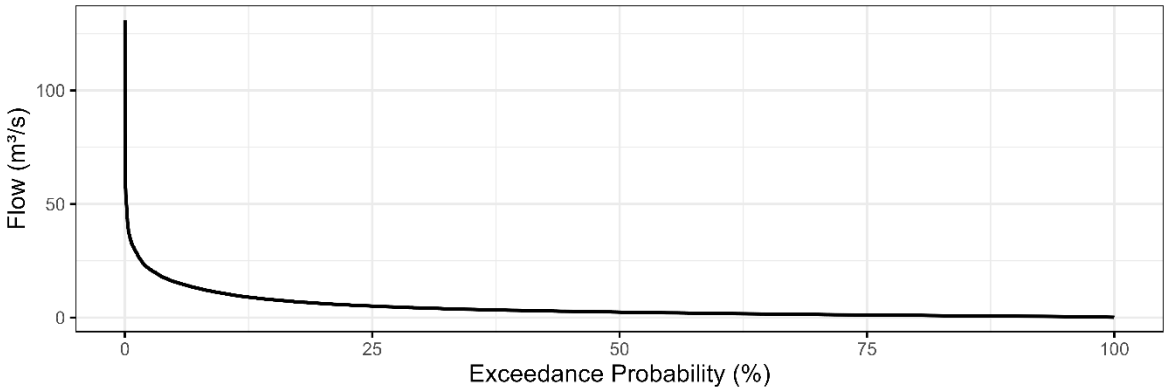


**Figure 6.6: Flow Duration Curve for Peters River near Botwood Hydrometric Station**

Monthly water availability was evaluated using a percentile-based analysis of observed streamflow. Daily discharge records were aggregated to monthly mean flows for each month-year within the period of record. For each month, the distribution of monthly mean flows across all years was used to calculate the 5$^{th}$, 50$^{th}$, and 95$^{th}$ percentile flows. The 5$^{th}$ percentile represents dry-condition water availability, the 50$^{th}$ percentile represents typical conditions, and the 95$^{th}$ percentile represents high-flow months. The resulting statistics characterize seasonal variability and provide a screening-level estimate of natural water availability under low-flow conditions.

These monthly flows were compared against the proposed Project average monthly withdrawal rates (Table 6.3). It was determined that the average monthly withdrawal at Peters Pond would be less than the 5$^{th}$ percentile natural water availability for all months. August represents the most restrictive month, corresponding to the lowest 5$^{th}$ percentile flow. During this month, the proposed withdrawal is approximately 28.6% of the 5$^{th}$ percentile flow and 5.3% of the 50$^{th}$ percentile flow. These results indicate that, on a monthly basis, the proposed average monthly withdrawal rate represents a proportion of available natural flow even under dry-condition scenarios. Low-flow protection is further evaluated using daily and 7-day low-flow thresholds, including variable daily withdrawal rates in Section 7).

**Table 6.3: Monthly Summarized Flow Statistic for Peters River near Botwood (ID: 02YO006)**

| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5$^{th}$ Percentile Flow (m$^3$/s) | 0.72 | 0.97 | 1.10 | 4.67 | 2.32 | 0.96 | 0.38 | 0.28 | 0.44 | 0.73 | 1.69 | 1.10 |
| Withdrawal as % of 5$^{th}$ Percentile Flow | 16.7% | 11.3% | 10.0% | 1.9% | 3.9% | 7.3% | 21.1% | 28.6% | 25.0% | 11.0% | 6.5% | 9.1% |
| 50$^{th}$ Percentile Flow (m$^3$/s) | 2.35 | 2.10 | 3.62 | 11.90 | 5.74 | 3.07 | 1.51 | 1.44 | 2.01 | 3.73 | 4.80 | 4.41 |
| Withdrawal as % of 50$^{th}$ Percentile Flow | 5.1% | 5.2% | 3.0% | 0.8% | 1.6% | 2.3% | 5.3% | 5.6% | 5.5% | 2.1% | 2.3% | 2.3% |
| 95$^{th}$ Percentile Flow (m$^3$/s) | 7.43 | 7.70 | 11.00 | 20.70 | 15.80 | 5.68 | 5.05 | 5.69 | 8.54 | 10.10 | 9.51 | 8.87 |

| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Withdrawal as % of 95$^{th}$ Percentile Flow | 1.6% | 1.4% | 1.0% | 0.4% | 0.6% | 1.2% | 1.6% | 1.4% | 1.3% | 0.8% | 1.2% | 1.1% |
| Average Monthly Withdrawal ($m^3/s$) | 0.12 | 0.11 | 0.11 | 0.09 | 0.09 | 0.07 | 0.08 | 0.08 | 0.11 | 0.08 | 0.11 | 0.10 |

### 6.3.2 Field Results

Manual Pond water level and stream water level were measured during each site visit, when sites were accessible and data collection could be safely completed. In 2024, monitoring was conducted between August 27 and December 4, and in 2025, monitoring was conducted between April 10 and November 26. Compiled field photos are presented in Appendix B.

Staff gauge readings for the monitoring period are summarized in Table 6.4. Additional measurements should be conducted to develop an accurate rating curve for the outflow.

**Table 6.4: Peters Pond Baseline Monitoring Summary**

| Location | Date of Measurement | Water Level (cm) |
|---|---|---|
| Inlet | 27-Aug-24 | 36 |
| | 8-Oct-24 | 23 |
| | 4-Dec-24 | 57 |
| | 10-Apr-25 | 46 |
| | 14-Jul-25 | 15 |
| | 26-Nov-25 | 50 |
| Outlet | 27-Aug-24 | 27 |
| | 8-Oct-24 | 27 |
| | 4-Dec-24 | 52 |
| | 10-Apr-25 | 46 |
| | 14-Jul-25 | 24 |
| | 26-Nov-25 | 50 |
| Pond | 27-Aug-24 | - |
| | 8-Oct-24 | 32 |
| | 4-Dec-24 | 60 |
| | 10-Apr-25 | 50 |
| | 14-Jul-25 | 23 |
| | 26-Nov-25 | 56 |

# 7.0 HYDROLOGIC MODEL RESULTS

## 7.1 Full Simulation Results

The results of the HEC-HMS inflow computation for Peters Pond are presented in Table 7.1 and Figure 7.1 under baseline conditions (no withdrawal incorporated). The model balances combined inflows due to the calibrated Peters Pond watershed and direct precipitation on

Peters Pond with losses from pond evaporation, outflows to Peters River, and withdrawals from the pond.

**Table 7.1: Monthly Inflows to Peters Pond**

| Inflow ($m^3/s$) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 2.00 | 1.20 | 1.81 | 7.03 | 3.94 | 1.73 | 1.22 | 1.48 | 2.93 | 3.84 | 4.51 | 3.47 |
| Minimum | 0.02 | 0.31 | 0.21 | 0.22 | 0.37 | 0.13 | 0.11 | 0.07 | 0.06 | 0.21 | 0.52 | 0.66 |
| Maximum | 21.23 | 10.69 | 14.77 | 30.18 | 27.46 | 9.14 | 10.10 | 14.97 | 22.83 | 22.20 | 14.41 | 15.63 |

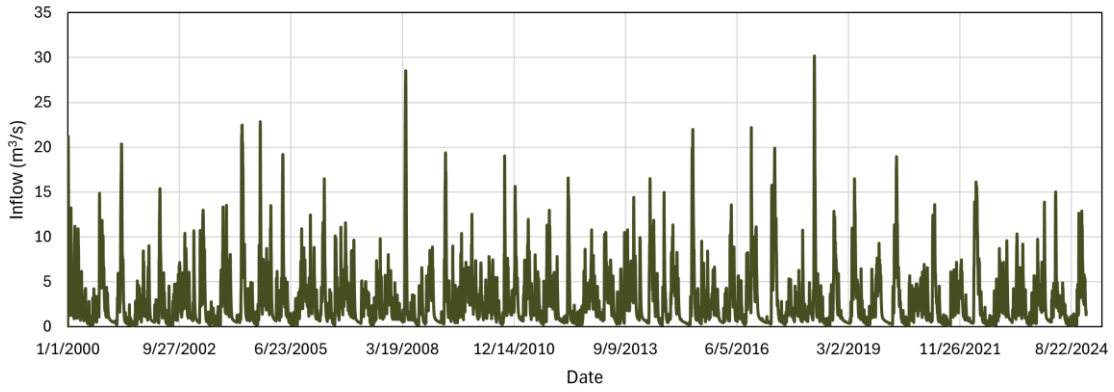


**Figure 7.1: Daily Inflows to Peters Pond**

An FDC was developed using the complete daily discharge record by ranking flows in descending order and assigning exceedance probabilities (Figure 7.2). Based on the FDC, the discharge that exceeded 95% of the time (Q95) is 0.29 $m^3/s$, the discharge that exceeded 90% of the time (Q90) is 0.42 $m^3/s$, the median flow (Q50) is 1.80 $m^3/s$, and the discharge that exceeded 10% of the time (Q10) is 6.61 $m^3/s$. In addition, low-flow frequency analysis of the annual minimum 7-day average discharge was calculated to estimate the 7Q10 flow. The flow representing the 7Q10 was calculated to be 0.15 $m^3/s$ using Log-Pearson Type III and 0.16 $m^3/s$ using Weibull Interpolation fitting distribution. The calculated 7Q10 for modelled baseline conditions of 0.16 $m^3/s$ was used as an ecological outflow for assessing sustainability and recirculation needs.

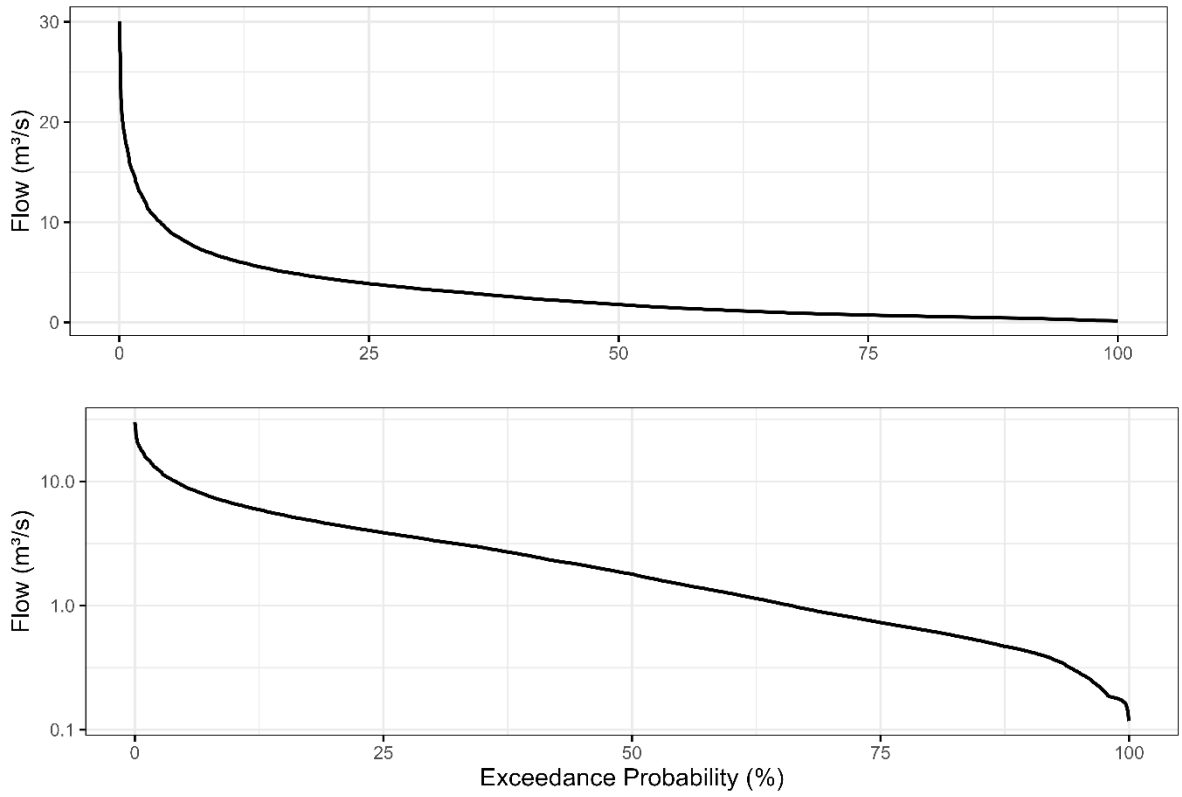


**Figure 7.2: Flow Duration Curve for Modelled Outflow (Baseline) Linear Scale (Top) and Log Scale (Bottom)**

The HEC-HMS modelling approach was adequate for assessing the change in daily storage values of Peters Pond. A daily variable withdrawal provided by EVREC was incorporated into the model and was simulated from 2000 to 2025. The results of the hydrological model for the average, driest, and wettest monthly water balance are presented in Tables 7.2, 7.3, and 7.4, respectively. Pond elevations range from 24.3 masl to 25.3 masl (Figure 7.3; Figure 7.4).

## 7.2 Mitigation Strategy

To ensure environmental flows are maintained downstream in Peters River, recirculation of treated water from the Industrial Plant was introduced to Peters Pond. To assess this requirement, for each model timestep, the rolling 7-day average discharge under withdrawal conditions was compared to the baseline 7Q10 threshold. When the simulated 7-day average outflow was less than the baseline 7Q10 threshold, treated water that meets freshwater quality guidelines was recirculated from the Industrial Plant to ensure the 7Q10 outflow was met. This requirement ensures that operational withdrawals do not result in hydrologic conditions equivalent to or more severe than the modelled natural 10-year low-flow event, therefore maintaining minimum instream flow protection. The frequency and duration of these events were further summarized.

Recirculation of treated water from the Industrial Plant is expected to be required during periods in July, August, September, and October (Figure 7.5). For the entire model simulation period, a total of 7 events required recirculation. During the driest year on record

(2001), water recirculation was required in the summer for a duration of 22 days. During the wettest year on record (2016), no water recirculation was required throughout the entire year.

**Table 7.2: Average Monthly Values With and Without the Proposed Withdrawal**

| Month | Pond Elevation (masl) | | | Pond Outflows ($m^3/s$) | | |
|---|---|---|---|---|---|---|
| | Without Project Withdrawal | With Project Withdrawal | % Change | Without Project Withdrawal | With Project Withdrawal | % Change |
| Jan | 24.61 | 24.60 | -0.03 | 1.80 | 1.68 | -6.71 |
| Feb | 24.57 | 24.56 | -0.04 | 1.14 | 1.02 | -9.87 |
| Mar | 24.60 | 24.59 | -0.04 | 1.65 | 1.53 | -6.84 |
| Apr | 24.81 | 24.81 | -0.02 | 7.13 | 7.04 | -1.28 |
| May | 24.71 | 24.70 | -0.02 | 4.04 | 3.95 | -2.20 |
| Jun | 24.61 | 24.60 | -0.02 | 1.71 | 1.65 | -3.98 |
| Jul | 24.57 | 24.56 | -0.04 | 1.20 | 1.12 | -6.89 |
| Aug | 24.57 | 24.57 | -0.03 | 1.44 | 1.37 | -4.72 |
| Sep | 24.66 | 24.65 | -0.03 | 2.95 | 2.85 | -3.48 |
| Oct | 24.70 | 24.70 | -0.02 | 3.69 | 3.60 | -2.29 |
| Nov | 24.74 | 24.74 | -0.02 | 4.43 | 4.33 | -2.40 |
| Dec | 24.70 | 24.69 | -0.02 | 3.56 | 3.46 | -2.76 |

**Table 7.3: 2001 (Driest Year) With and Without the Proposed Withdrawal**

| Month | Pond Elevation (masl) | | | Pond Outflows ($m^3/s$) | | |
|---|---|---|---|---|---|---|
| | Without Project Withdrawal | With Project Withdrawal | % Change | Without Project Withdrawal | With Project Withdrawal | % Change |
| Jan | 24.55 | 24.54 | -0.04 | 0.76 | 0.64 | -15.95 |
| Feb | 24.53 | 24.52 | -0.04 | 0.49 | 0.38 | -22.79 |
| Mar | 24.60 | 24.58 | -0.05 | 1.69 | 1.58 | -6.77 |
| Apr | 24.85 | 24.84 | -0.01 | 8.44 | 8.35 | -1.07 |
| May | 24.70 | 24.69 | -0.02 | 3.85 | 3.76 | -2.30 |
| Jun | 24.52 | 24.51 | -0.05 | 0.46 | 0.40 | -12.22 |
| Jul | 24.53 | 24.50 | -0.09 | 0.50 | 0.41 | -18.23 |
| Aug | 24.43 | 24.47 | 0.16 | 0.44 | 0.45 | 1.78 |
| Sep | 24.63 | 24.63 | -0.03 | 2.12 | 2.02 | -4.97 |
| Oct | 24.62 | 24.62 | -0.02 | 1.86 | 1.78 | -4.48 |
| Nov | 24.70 | 24.70 | -0.02 | 3.61 | 3.51 | -2.95 |
| Dec | 24.70 | 24.69 | -0.02 | 3.60 | 3.50 | -2.75 |

**Table 7.4: 2016 (Wettest Year) Monthly Values With and Without the Proposed Withdrawal**

| Month | Pond Elevation (masl) | | | Pond Outflows ($m^3/s$) | | |
|---|---|---|---|---|---|---|
| | Without Project Withdrawal | With Project Withdrawal | % Change | Without Project Withdrawal | With Project Withdrawal | % Change |
| Jan | 24.53 | 24.52 | -0.05 | 0.54 | 0.42 | -22.44 |
| Feb | 24.61 | 24.60 | -0.03 | 1.65 | 1.54 | -6.94 |
| Mar | 24.59 | 24.59 | -0.03 | 1.45 | 1.34 | -7.64 |

| Month | Pond Elevation (masl) | | | Pond Outflows ($m^3/s$) | | |
|---|---|---|---|---|---|---|
| | Without Project Withdrawal | With Project Withdrawal | % Change | Without Project Withdrawal | With Project Withdrawal | % Change |
| Apr | 24.84 | 24.84 | -0.01 | 7.26 | 7.17 | -1.26 |
| May | 24.68 | 24.67 | -0.02 | 3.17 | 3.08 | -2.80 |
| Jun | 24.65 | 24.64 | -0.02 | 2.45 | 2.38 | -2.91 |
| Jul | 24.63 | 24.62 | -0.02 | 2.05 | 1.97 | -3.97 |
| Aug | 24.57 | 24.56 | -0.03 | 1.28 | 1.20 | -6.10 |
| Sep | 24.75 | 24.75 | -0.02 | 4.52 | 4.42 | -2.33 |
| Oct | 24.85 | 24.85 | -0.01 | 7.76 | 7.68 | -1.08 |
| Nov | 24.83 | 24.83 | -0.01 | 6.81 | 6.70 | -1.56 |
| Dec | 24.61 | 24.60 | -0.03 | 1.66 | 1.56 | -5.91 |

Average monthly water levels for Peters Pond remain relatively stable with the proposed Project withdrawal incorporated, with an average decrease of 0.007 m. Slight decreases in pond water levels are observed during the summer months. During the driest year on record, there is a slight increase in pond water levels due to recirculation requirements to meet the ecological flow requirements (i.e., 0.16% increase in pond water levels in August). The greatest change in average outflows correspond to the winter (January to March) and summer (July and August) months (Table 7.2).

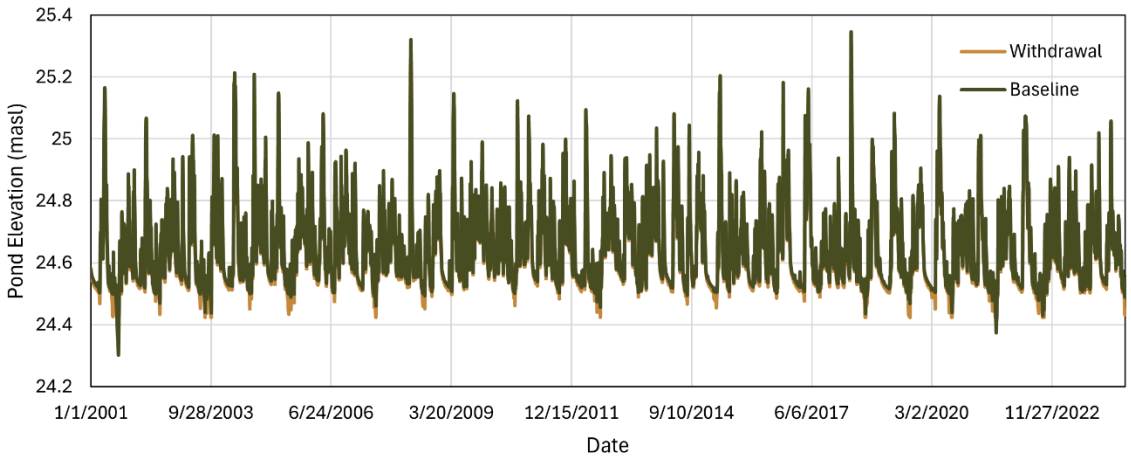


**Figure 7.3: Baseline and Withdrawal Incorporated Pond Elevations**

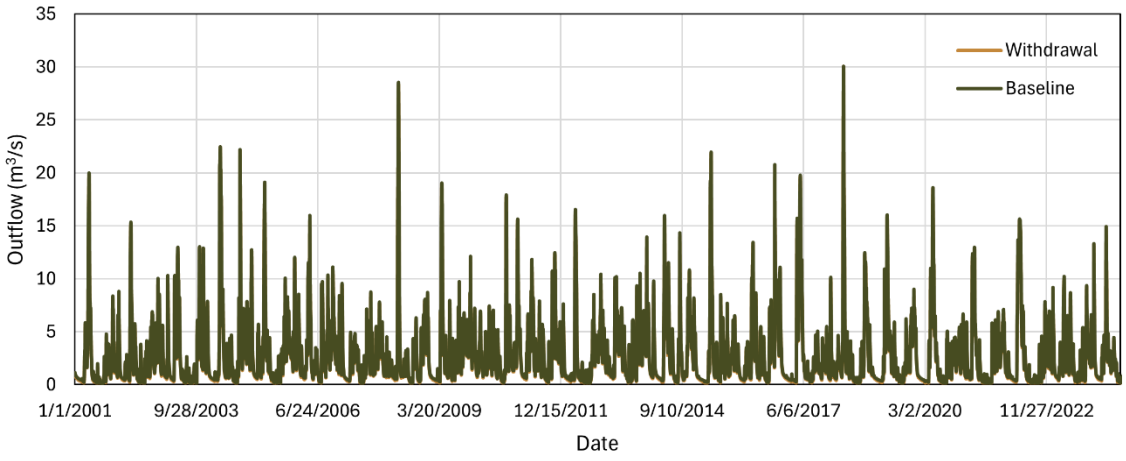


**Figure 7.4: Baseline and Withdrawal Incorporated Pond Outflows**

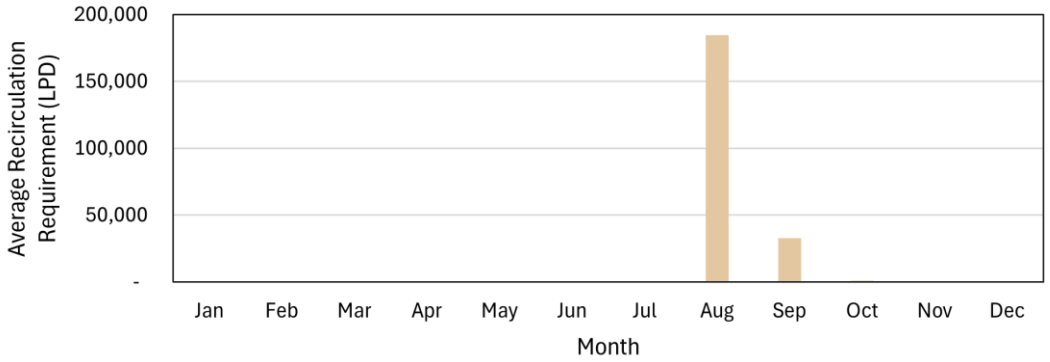


**Figure 7.5: Average Recirculation Requirements Over Entire Model Simulation**

## 7.3 Hydrologic Model and Hydrometric Station Comparison

The mean annual flowrate derived from the hydrological model for Peters Pond watershed was calculated to be 2.90 $m^3/s$, which is lower than the observed streamflow data from the nearby hydrometric station downstream on Peters River (Table 7.5). All modelled monthly flow averages are less than the measured monthly flow averages for Peters River near Botwood, indicating that the model is conservative in estimating water availability as the focus was to capture the low-flow periods (Table 7.5).

**Table 7.5: Monthly Summarized Flow Statistic for Peters River near Botwood (ID: 02YO006)**

| Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECCC Hydrometric Station Average Flow | 2.91 | 2.76 | 4.45 | 12.56 | 6.81 | 3.27 | 1.86 | 1.96 | 3.01 | 4.08 | 5.25 | 4.32 | 4.44 |
| Modelled Baseline Outflow ($m^3/s$) | 1.8 | 1.14 | 1.65 | 7.13 | 4.04 | 1.71 | 1.20 | 1.44 | 2.95 | 3.69 | 4.43 | 3.56 | 2.90 |

# 8.0 CONCLUSION

The hydrological assessment provides an analysis of water availability in Peters Pond watershed over a model simulation period from 2000 to 2025 under baseline conditions and with the proposed Project withdrawal incorporated. Bathymetry surveys conducted by Landmark Surveys determined a maximum water depth of 12 m with an associated storage of 3.32E6 $m^3$. Given the reservoir volume of Peters Pond, if water was being withdrawn for 30 days with no inflow at a rate of 0.096 $m^3/s$ (average withdrawal rate), the withdrawal would account for approximately 7.5% of Peters Pond storage.

A hydrological model developed using HEC-HMS determined that Peters Pond has sufficient water available to accommodate the proposed Project withdrawal, with few instances where recirculation of treated water is required to Peters Pond. Average, dry (2001), and wet (2016) years were further analyzed to determine the sustainability of the proposed withdrawal under varying conditions.

It is recommended to develop water level monitoring thresholds and adaptive water management strategies to ensure the protection of ecological flows downstream in Peters River to mitigate impacts during low-flow periods and to support the Project long-term. Furthermore, it is recommended to continue monitoring the outflow of Peters Pond for further calibration of the stage-discharge curve.

# 9.0 STATEMENT OF QUALIFICATIONS AND LIMITATIONS

This Report (the "Report") has been prepared by Strum Consulting ("Consultant") for the benefit of EVREC ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations, and conclusions contained in the Report (collectively, the "Information"):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the "Limitations")
- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation of similar reports
- may be based on information provided to Consultant which has not been independently verified
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued
- must be read as a whole and sections thereof should not be read out of such context
- was prepared for the specific purposes described in the Report and the Agreement
- in the case of subsurface, environmental, or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time

Consultant shall be entitled to rely upon the accuracy and completeness of information that was provided and has no obligation to update such information. Consultant accepts no responsibility for any events or circumstances that may have occurred since the date on which the Report was prepared and, in the case of subsurface, environmental, or geotechnical conditions, is not responsible for any variability in such conditions, geographically or over time.

Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

The Report is to be treated as confidential and may not be used or relied upon by third parties, except:

- as agreed in writing by Consultant and Client
- as required by law
- for use by governmental reviewing agencies

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This Statement of Qualifications and Limitations forms part of the Report and any use of the Report is subject to the terms hereof.

Should additional information become available, Strum requests that this information be brought to our attention immediately so that we can re-assess the conclusions presented in this report. This report was prepared by Kathryn Smith, P.Eng., PhD Candidate, Water Resources Engineer, and reviewed by Francois Gascon, P. Eng., Environmental Engineer and Meghan Johnston, VP Environmental Assessment and Approvals.

## 10.0 REFERENCES

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# APPENDIX A
# DRAWINGS

# EVREC Green Energy Hub

*Project Locator*

EVREC

**Project Area**

- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Waterbodies

**Coordinate System**: NAD 1983 CSRS UTM Zone 21N
**Sources**: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS


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| Drawn By: M. Partridge | |
| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*Botwood Wind Project Area*
*Project Infrastructure*

EVREC

**Project Area**

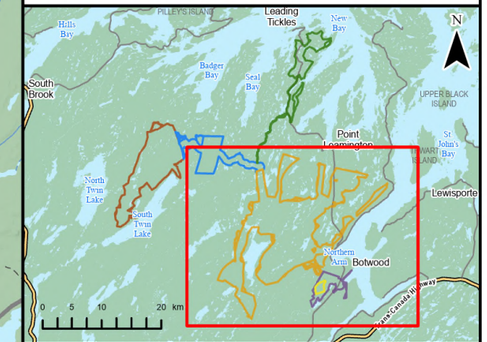
- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Industrial Facility Infrastructure Area
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

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# EVREC Green Energy Hub

*Leading Tickles Wind Project Area*
*Project Infrastructure*

EVREC

**Project Area**

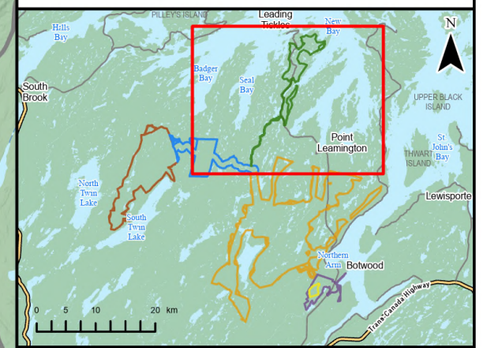
- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Project Footprint
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

**Transportation**

- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

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| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*Seabrights Lake Wind Project Area*
*Project Infrastructure*

EVREC

**Project Area**

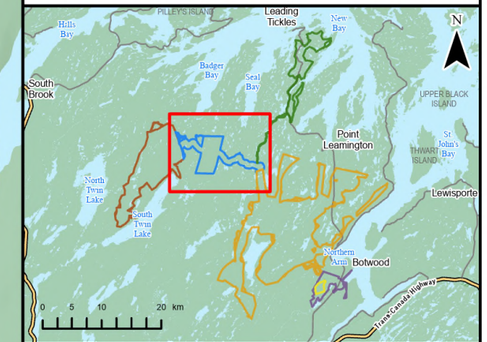
- Botwood Wind Project Area
- Leading Tickles Wind Project Area
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

**Transportation**

- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies




**Coordinate System**: NAD 1983 CSRS UTM Zone 21N
**Sources**: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

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| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*Twin Lakes Wind Project Area*
*Project Infrastructure*

EVREC

**Project Area**

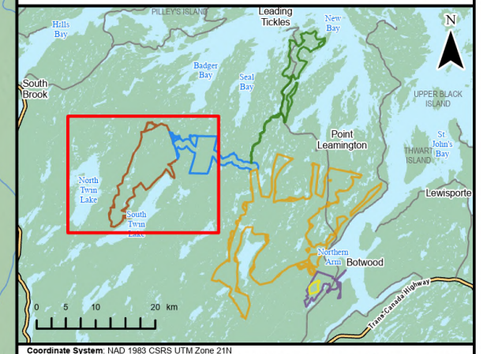
- Seabrights Lake Wind Project Area
- Twin Lakes Wind Project Area
- Project Footprint
- Accommodation
- Quarry
- Substation
- 230 kV Tranmsission Line
- 69 kV Collector Line
- Project Road
- Turbine

**Transportation**

- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

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# EVREC Green Energy Hub

*Industrial Facility & Solar Project Area*
*Project Infrastructure*

EVREC

**Project Area**

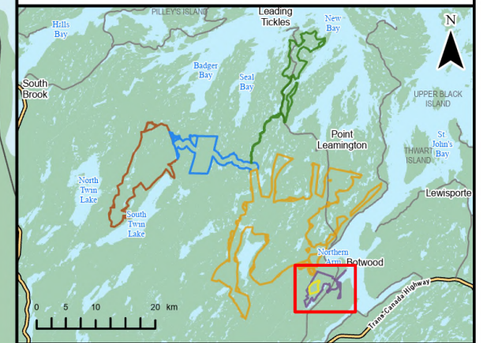
- Industrial Project Area
- Solar Project Area
- Botwood Wind Project Area
- Project Footprint
- Industrial Facility Infrastructure Area
- Solar Array Area
- Accommodation
- Quarry
- Settling Pond
- 230 kV Tranmission Line
- Project Road
- Ditch
- Haul Road
- Plant Site Intake
- Water Recycling Line
- Ammonia Pipeline

**Transportation**

- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

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**Sources**: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

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| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*Solar Project Area*
*Project Infrastructure*

EVREC

**Project Area**

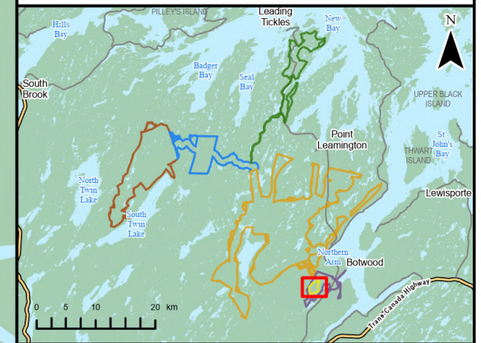
- Industrial Project Area
- Solar Project Area
- Project Footprint
- Industrial Facility Infrastructure Area
- Auxilary Area
- Solar Array Area
- Solar Infrastructure Layout
- Accommodation
- 230 kV Tranmsission Line
- Plant Site Intake
- Water Recycling Line
- Proposed Road Network
- Fence
- Transformer

**Transportation**

- Highway

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

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| Checked By: N. Thomas | |

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Flowers Pond
Peters River
Highway 350

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# EVREC Green Energy Hub

*Climate Stations within 100 km of Peter's Pond*

EVREC

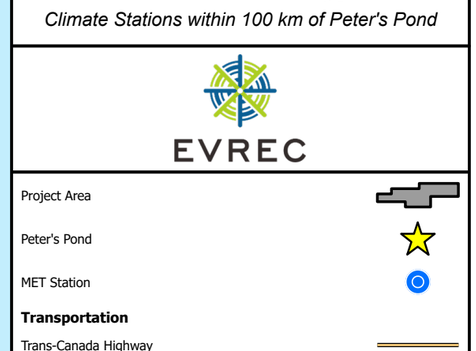
- Project Area
- Peter's Pond
- MET Station

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Waterbodies

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# EVREC Green Energy Hub

*Peter's River Watershed*

EVREC

- Intake Location
- Water Level Monitoring Station
- Peter's River Hydrometric Station
- Water Rights
- Protected Public Water Supply Areas
- Peter's River Hydrometric Watershed Boundary

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

**Coordinate System**: NAD 1983 CSRS UTM Zone 21N
**Sources**: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

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# EVREC Green Energy Hub

*Land Use / Land Cover*

EVREC

Peter's River Hydrometric Watershed Boundary

**Land Cover**

- Anthropogenic
- Barrens
- Coniferous Scrub
- Deciduous Scrub
- Hardwoods
- Mixed Forest
- Mixed Shrub
- Regenerating
- Softwood
- Unclassed
- Waterbody
- Wetlands

**Transportation**

- Trans-Canada Highway
- Highway
- Road
- Unpaved Road

**Water Features**

- Mapped Watercourses
- Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N

Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

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| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*HEC-HMS Model Subbasins*

EVREC

Drainage Pathway

Peter's River Watershed Subbasins

Peter's River Hydrometric Watershed Boundary

**Peter's River Watershed DEM**

**Elevation (masl)**

233

20

**Transportation**

Trans-Canada Highway

Highway

Road

Unpaved Road

**Water Features**

Mapped Watercourses

Mapped Waterbodies

Coordinate System: NAD 1983 CSRS UTM Zone 21N

Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

| | |
|---|---|
| Date: 2026-03-06 | Project #: 24-10265 |
| Scale: 1:100,000 | Drawing #: 6 |
| Drawn By: E. Johnson | |
| Checked By: N. Thomas | |

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# EVREC Green Energy Hub

*Peter's Pond Bathymetry*

EVREC

Winter Sounding Location

**Peter's Pond Bathymetry**

**Elevation (masl)**

26.5561

13.2638

**Transportation**

Highway

Road

**Coordinate System**: NAD 1983 CSRS UTM Zone 21N

**Sources**: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

| | |
|---|---|
| Date: 2026-03-06 | Project #: 24-10265 |
| Scale: 1:7,500 | Drawing #: 7 |
| Drawn By: E. Johnson | |
| Checked By: N. Thomas | |

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0 150 300 450 m

Highway 350

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# APPENDIX B
# PHOTOGRAPH LOG

Photo 1: Peters Pond December 2024.

Photo 2: Peters Pond Inlet December 2024.

Photo 3: Peters Pond Outlet December 2024.

Photo 4: Peters Pond April 2025.

Photo 5: Peters Pond Inlet April 2025.

Photo 6: Peters Pond Outlet April 2025.

Photo 7: Peters Pond Inlet July 2025.

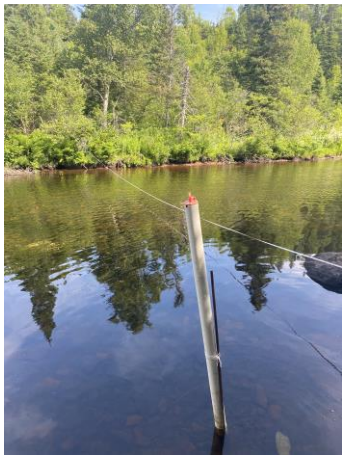

Photo 8: Peters Pond Outlet July 2025.

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Halifax, NS B3S 0B9
T: 902.835.5560 (24/7)

3-A Vincent's Way
Antigonish, NS B2G 2X3
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#E120 – 120 Torbay Road
St. John's, NL A1A 2G8
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**January 30, 2026**

**Attention: Mr. Dean Comand**
President and Chief Operating Officer
Exploits Valley Renewable Energy Corporation (EVREC)
P.O. Box 5038, St. John's, NL AYC 6K3

Dear Mr. Comand

**Re: Results of 2025 Plant Influent Water Quality Monitoring, Botwood Green Energy Project**

Strum Consulting (Strum) presents the analytical results of the 2025 Plant Influent Water Quality Monitoring Program conducted at the three Peters Pond monitoring stations (WQM-3, WQM-4, and WQM-5). Analysis was performed for general chemistry, metals (total and dissolved), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), petroleum hydrocarbons, carbon dioxide, and microbiological parameters. The analytical results summary tables, referencing the *Electric Hydrogen Electrolyzer Plant Input Water Standards* provided by EVREC, are attached, along with the full laboratory certificates. The dataset comprises 17 sampling events from April 10, 2025, to November 26, 2025, to evaluate the suitability of Peters Pond water quality against the Plant influent water quality standards.

For the sampling, a YSI multi-sensor water quality meter and a chlorine Hach DR300 Pocket Colorimeter were used to collect measurements of field water quality parameters at each location. To obtain representative samples and avoid potential cross-contamination, the surface water samples were collected by Strum field staff while wearing dedicated nitrile gloves, and while using either dedicated or decontaminated sampling equipment. The samples were collected in laboratory-supplied bottles and were kept in cool storage pending submission to the laboratory for analysis. The surface water samples were submitted to Bureau Veritas (BV) Laboratories in St. John's, NL for the analysis of chemical parameters while the microbiological parameters were analysed by AGAT Laboratories in St. John's, NL.

Should you have any questions or require further details, please feel free to contact the undersigned.

Thank you,

Carolyn Anstey-Moore, M.Sc., M.A.Sc., P.Geo.
Senior Hydrogeologist
email:Cansteymoore@strum.com; cell:709-693-9171

**Attachments:**

- Table 1: Water Quality Analysis – General Chemistry and Metals
- Table 2: Water Quality Analysis – Organic Chemical Parameters, Gases, Microbiological
- Table 3: Water Quality Analysis – Measured Surface Water Field Parameters
- Laboratory Certificates

**Table 1: Water Quality Analysis - General Chemistry and Metals** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Calculated Parameters** | | | | | | | | | | | | | | | | | | | | |
| Anion Sum | me/L | 0.47 | 0.16 | 0.2 | 0.23 | 0.63 | 0.56 | 0.82 | 0.69 | 0.38 | 1 | 1.19 | 1.39 | 1.18 | 1.30 | - | 0.890 | 0.380 | NA | - |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 18 | 4.8 | 5.9 | 7.8 | 26 | 22 | 31 | 27 | 15 | 40 | 46 | 53 | 48 | 50 | - | 35 | 13 | 1 | <150 |
| Calculated Total Dissolved Solids (TDS) | mg/L | 29 | 14 | 15 | 18 | 35 | 34 | 48 | 41 | 25 | 58 | 69 | 79 | 66 | 75 | - | 51 | 27 | 1 | <500 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Cation Sum | me/L | 0.5 | 0.28 | 0.3 | 0.33 | 0.57 | 0.64 | 0.86 | 0.81 | 0.52 | 1.07 | 1.29 | 1.44 | 1.26 | 1.43 | - | 0.920 | 0.480 | NA | - |
| Hardness (CaCO3) | mg/L | 19 | 9.1 | 10 | 11 | 23 | 25 | 35 | 32 | 19 | 45 | 54 | 61 | 53 | 59 | - | 37 | 18 | 1 | <435 |
| Ion Balance (% Difference) | % | 3.09 | 27.3 | 20 | 17.9 | 5 | 6.67 | 2.38 | 8 | 15.6 | 3.38 | 4.03 | 1.77 | 3.28 | 4.76 | - | 1.66 | 11.6 | NA | - |
| Langelier Index (@ 20C) | NA | -1.98 | -3.43 | -3.09 | -2.87 | -1.64 | -1.6 | -1.23 | -1.44 | -2.18 | -0.807 | -0.758 | -0.464 | -0.610 | -0.612 | - | -1.10 | -2.41 | - | - |
| Langelier Index (@ 4C) | NA | -2.24 | -3.68 | -3.35 | -3.12 | -1.89 | -1.86 | -1.48 | -1.69 | -2.43 | -1.06 | -1.01 | -0.715 | -0.862 | -0.863 | - | -1.35 | -2.66 | - | - |
| Nitrate (N) | mg/L | 0.18 | 0.13 | 0.11 | 0.096 | 0.15 | 0.22 | 0.28 | 0.16 | 0.068 | 0.23 | 0.22 | 0.22 | 0.072 | 0.23 | - | 0.11 | 0.23 | 0.05 | <10 |
| Saturation pH (@ 20C) | NA | 9.27 | 10.2 | 10 | 9.84 | 9.03 | 9.07 | 8.79 | 8.86 | 9.35 | 8.56 | 8.43 | 8.32 | 8.41 | 8.37 | - | 8.70 | 9.44 | - | - |
| Saturation pH (@ 4C) | NA | 9.52 | 10.4 | 10.3 | 10.1 | 9.28 | 9.32 | 9.04 | 9.11 | 9.6 | 8.81 | 8.68 | 8.57 | 8.66 | 8.62 | - | 8.95 | 9.69 | - | - |
| **Inorganics** | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine (Cl)* | mg/L | - | - | - | 0.04 | 0.02 | 0.03 | 0.12 | 0.07 | 0.07 | 0.03 | 0.06 | 0.02 | 0.04 | 0.07 | - | 0.02 | 0.19 | - | - |
| Total Chlorine* | mg/L | - | - | - | 0.05 | 0.1 | 0.14 | 0.15 | 0.33 | 0.16 | 0.20 | 0.09 | 0.12 | 0.19 | 0.21 | - | 0.00 | 0.08 | - | <5 |
| Total Alkalinity (Total as CaCO3) | mg/L | 18 | 4.8 | 5.9 | 7.9 | 26 | 22 | 31 | 27 | 15 | 40 | 46 | 54 | 48 | 50 | - | 35 | 13 | 2 | <300 |
| Dissolved Chloride (Cl) | mg/L | 3.8 | 2.1 | 2.6 | 2.4 | 3.6 | 4 | 4.8 | 4.7 | 2.8 | 4 | 6.1 | 7.6 | 5.1 | 6.9 | - | 4.4 | 3.7 | 1 | <250 |
| Colour | TCU | 50 | 71 | 100 | 66 | 55 | 57 | 41 | 50 | 79 | 29 | 20 | 25 | 24 | 30 | - | 29 | 75 | 5 | - |
| Dissolved Fluoride (F) | mg/L | <0.10 | <0.010 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | 0.1 | <4 |
| Nitrate + Nitrite | mg/L | 0.18 | 0.13 | 0.11 | 0.096 | 0.15 | 0.22 | 0.28 | 0.16 | 0.068 | 0.23 | 0.22 | 0.22 | 0.072 | 0.23 | - | 0.13 | 0.23 | 0.05 | - |
| Nitrite (N) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | 0.017 | <0.010 | 0.01 | <1 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | <0.050 | <0.050 | 0.053 | <0.050 | <0.050 | <0.050 | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | 0.050 | 0.05 | - |
| Total Organic Carbon (C) | mg/L | **6.3** | **8.8** | **8.5** | **8.2** | **6.4** | **5.7** | **4.9** | **6** | **11** | **4.7** | 3.7 | 3.2 | **4.2** | 3.9 | - | **5.4** | **11** | 0.5 | <4 |
| Orthophosphate (P) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.01 | - |
| pH | pH | 7.29 | 6.73 | 6.92 | 6.98 | 7.38 | 7.47 | 7.56 | 7.42 | 7.17 | 7.75 | 7.67 | 7.85 | 7.80 | 7.75 | - | 7.60 | 7.02 | - | 6.5 - 7.9 |
| Reactive Silica (SiO2) | mg/L | 4.3 | 2.9 | 3 | 3.6 | 3.5 | 3.8 | 4.5 | 3.8 | 3 | 5.2 | 6 | 6.2 | 4.5 | 5.5 | - | 4.8 | 5.2 | 0.5 | <20 |
| Total Suspended Solids | mg/L | 32 | 7.2 | 12 | 8.6 | 4.2 | <1.0 | 8.8 | 7.8 | 22 | 3.2 | <1.0 | 4.2 | 1.8 | 3.2 | - | 6.8 | <1.0 | 1 | - |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.3 | <2.0 | <2.0 | 3 | 3.8 | 4.1 | 3.5 | 4.6 | - | 2.7 | <2.0 | 2 | <100 |
| Turbidity | NTU | **7** | **2.1** | **2.6** | **4.4** | 0.57 | 0.78 | 0.49 | **3.7** | **1.2** | **1.4** | 0.74 | **2.0** | **1.0** | **2.1** | - | **1.7** | **1.2** | 0.1 | <1 |
| Conductivity | µS/cm | 50 | 28 | 28 | 31 | 55 | 64 | 83 | 73 | 51 | 100 | 120 | 140 | 120 | 140 | - | 94 | 47 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

* Free and total chlorine measured in the field using a Hach DR300 Pocket Colorimeter via DPD methodology.

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | |
| Dissolved Aluminium (Al) | µg/L | 46 | 100 | 100 | 97 | 59 | 49 | 31 | 39 | 73 | 16 | 16 | 11 | 11 | 9.6 | - | 13 | 120 | 5 | - |
| Total Aluminium | µg/L | **430** | 120 | 130 | 190 | 81 | 73 | 150 | 70 | **330** | 100 | 19 | 170 | 25 | 20 | - | 29 | 120 | 5 | <200 |
| Dissolved Antimony (Sb) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Total Antimony | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Dissolved Arsenic (As) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | 1.6 | 1.5 | 1.3 | 1.5 | - | 1.0 | <1.0 | 1 | - |
| Total Arsenic | µg/L | 2.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | 1 | 2.4 | 1.7 | 1.5 | 2.4 | 1.5 | 1.5 | - | 1.2 | <1.0 | 1 | <10 |
| Dissolved Barium (Ba) | µg/L | 8.5 | 4.1 | 3.9 | 5.1 | 8 | 7.3 | 9.8 | 11 | 7.3 | 13 | 13 | 17 | 15 | 14 | - | 12 | 6.8 | 1 | - |
| Total Barium | µg/L | 16 | 4 | 3.8 | 6.8 | 7.2 | 7.4 | 13 | 9.3 | 14 | 16 | 12 | 19 | 15 | 13 | - | 11 | 5.9 | 1 | <1000 |
| Dissolved Beryllium (Be) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | 0.1 | - |
| Total Beryllium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | 0.1 | <4 |
| Dissolved Bismuth (Bi) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| Total Bismuth | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| Dissolved Boron (B) | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | - | <50 | <50 | 50 | - |
| Total Boron | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | - | <50 | <50 | 50 | <1000 |
| Dissolved Cadmium (Cd) | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.01 | - |
| Total Cadmium | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.011 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.01 | <5 |
| Dissolved Calcium (Ca) | µg/L | 5900 | 2700 | 3000 | 3400 | 7100 | 7700 | 11000 | 10000 | 5700 | 14000 | 17000 | 19000 | 17000 | 18000 | - | 12000 | 5400 | 100 | - |
| Total Calcium | µg/L | 6300 | 2700 | 2900 | 3300 | 6800 | 7900 | 11000 | 9100 | 5900 | 14000 | 15000 | 19000 | 16000 | 17000 | - | 11000 | 5100 | 100 | <100000 |
| Dissolved Chromium (Cr) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Total Chromium | µg/L | 4.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | <100 |
| Dissolved Cobalt (Co) | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | - | <0.40 | <0.40 | 0.4 | - |
| Total Cobalt | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | - | <0.40 | <0.40 | 0.4 | - |
| Dissolved Copper (Cu) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| Total Copper | µg/L | 0.7 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.72 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | <1300 |
| Dissolved Iron (Fe) | µg/L | 63 | 81 | 74 | 74 | 110 | 120 | 170 | 130 | 140 | 200 | 180 | 160 | 170 | 180 | - | 150 | 160 | 50 | - |
| Total Iron | µg/L | **960** | 140 | 110 | **300** | 170 | **200** | **430** | **210** | **790** | **450** | **240** | **520** | **230** | **240** | - | **220** | 180 | 50 | <200 |
| Dissolved Lead (Pb) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| Total Lead | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | <15 |
| Dissolved Lithium (Li) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| Total Lithium | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | <10 |
| Dissolved Magnesium (Mg) | µg/L | 1000 | 560 | 610 | 650 | 1200 | 1300 | 1800 | 1700 | 1100 | 2200 | 2800 | 3200 | 2600 | 3200 | - | 1900 | 1000 | 100 | - |
| Total Magnesium | µg/L | 1200 | 590 | 580 | 670 | 1100 | 1400 | 1800 | 1400 | 1200 | 2200 | 2600 | 3300 | 2500 | 3100 | - | 1900 | 980 | 100 | <45000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | | |
| **Metals (cont.)** | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Manganese (Mn) | µg/L | <2.0 | <2.0 | 3.9 | 5.1 | 18 | 22 | 28 | 13 | 7.6 | 8 | 3.3 | 4.2 | 2.7 | 3.6 | - | 12 | 17 | | 2 | - |
| Total Manganese | µg/L | 150 | 14 | 7.6 | 44 | 25 | 30 | 65 | 27 | 140 | 66 | 18 | 100 | 19 | 18 | - | 22 | 18 | | 2 | <300 |
| Dissolved Mercury (Hg) | µg/L | - | - | - | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | - | <0.013 | <0.013 | | 0.013 | - |
| Total Mercury (Hg) | µg/L | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | | 0.013 | - |
| Dissolved Molybdenum (Mo) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Total Molybdenum | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Dissolved Nickel (Ni) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Total Nickel | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | <100 |
| Dissolved Phosphorus (P) | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | - | <100 | <100 | | 100 | <8500 |
| Total Phosphorus | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | - | <100 | <100 | | 100 | - |
| Dissolved Potassium (K) | µg/L | 150 | 150 | 150 | 140 | 200 | 180 | 310 | 240 | 210 | 220 | 290 | 350 | 340 | 460 | - | 400 | 160 | | 100 | - |
| Total Potassium | µg/L | 180 | 170 | 140 | 170 | 160 | 180 | 240 | 240 | 200 | 230 | 250 | 370 | 350 | 460 | - | 290 | 140 | | 100 | <8500 |
| Dissolved Selenium (Se) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | | 0.5 | - |
| Total Selenium | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | | 0.5 | <50 |
| Dissolved Silver (Ag) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | - |
| Total Silver | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | <100 |
| Dissolved Sodium (Na) | µg/L | 2600 | 2200 | 2000 | 2100 | 2600 | 3000 | 3500 | 3400 | 3200 | 3700 | 4500 | 4700 | 4200 | 5200 | - | 3700 | 2600 | | 100 | - |
| Total Sodium | µg/L | 2700 | 2200 | 1900 | 2100 | 2600 | 2800 | 3200 | 3000 | 3000 | 3600 | 4100 | 4700 | 4300 | 4900 | - | 3500 | 2400 | | 100 | <175000 |
| Dissolved Strontium (Sr) | µg/L | 19 | 9.7 | 10 | 12 | 23 | 25 | 36 | 32 | 21 | 45 | 57 | 66 | 56 | 64 | - | 41 | 19 | | 2 | - |
| Total Strontium | µg/L | 21 | 9.9 | 10 | 12 | 22 | 25 | 35 | 31 | 22 | 46 | 52 | 66 | 54 | 59 | - | 39 | 17 | | 2 | <225 |
| Dissolved Thallium (Tl) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | - |
| Total Thallium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | - |
| Dissolved Tin (Sn) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Total Tin | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Dissolved Titanium (Ti) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Total Titanium | µg/L | 20 | <2.0 | 2.5 | 6 | <2.0 | <2.0 | 7.7 | 2.9 | 15 | 5.6 | <2.0 | 9.6 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Dissolved Uranium (U) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | - |
| Total Uranium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | - | <0.10 | <0.10 | | 0.1 | - |
| Dissolved Vanadium (V) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | - |
| Total Vanadium | µg/L | 2.1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | | 2 | <50 |
| Dissolved Zinc (Zn) | µg/L | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 | <5.0 | | 5 | - |
| Total Zinc | µg/L | 5.2 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 10 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 | <5.0 | | 5 | <5000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Calculated Parameters** | | | | | | | | | | | | | | | | | | | | |
| Anion Sum | me/L | 0.25 | 0.27 | 0.17 | 0.16 | 0.39 | 0.36 | 0.38 | 0.47 | 0.53 | 0.57 | 0.58 | 0.590 | 0.720 | 0.620 | 0.820 | 0.780 | 0.340 | NA | - |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 3.4 | 8.7 | 3.8 | 3.4 | 15 | 13 | 14 | 17 | 22 | 21 | 23 | 23 | 27 | 26 | 29 | 30 | 11 | 1 | <150 |
| Calculated Total Dissolved Solids (TDS) | mg/L | 20 | 19 | 16 | 15 | 22 | 22 | 24 | 28 | 31 | 33 | 33 | 33 | 41 | 35 | 46 | 45 | 25 | 1 | <500 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Cation Sum | me/L | 0.37 | 0.38 | 0.36 | 0.35 | 0.36 | 0.42 | 0.48 | 0.55 | 0.63 | 0.63 | 0.68 | 0.680 | 0.780 | 0.730 | 0.820 | 0.810 | 0.460 | NA | - |
| Hardness (CaCO3) | mg/L | 13 | 13 | 12 | 12 | 13 | 15 | 18 | 20 | 24 | 23 | 26 | 26 | 30 | 29 | 32 | 32 | 16 | 1 | <435 |
| Ion Balance (% Difference) | % | 19.4 | 16.9 | 35.9 | 37.3 | 4 | 7.69 | 11.6 | 7.84 | 8.62 | 5 | 7.94 | 7.09 | 4.00 | 8.15 | 0.00 | 1.89 | 15.0 | NA | - |
| Langelier Index (@ 20C) | NA | -3.02 | -2.73 | -3.02 | -3.13 | -2.39 | -2.3 | -2.09 | -1.87 | -1.71 | -1.58 | -1.42 | -1.45 | -1.22 | -1.36 | -1.27 | -1.15 | -2.59 | - | - |
| Langelier Index (@ 4C) | NA | -3.27 | -2.98 | -3.28 | -3.39 | -2.64 | -2.56 | -2.34 | -2.12 | -1.96 | -1.83 | -1.67 | -1.70 | -1.47 | -1.62 | -1.52 | -1.41 | -2.84 | - | - |
| Nitrate (N) | mg/L | 0.13 | 0.15 | 0.12 | 0.091 | 0.075 | 0.066 | 0.12 | 0.072 | 0.066 | 0.05 | 0.067 | <0.050 | <0.050 | <0.050 | 0.48 | <0.050 | 0.16 | 0.05 | <10 |
| Saturation pH (@ 20C) | NA | 10.2 | 9.76 | 10.1 | 10.2 | 9.53 | 9.5 | 9.41 | 9.28 | 9.1 | 9.12 | 9.02 | 9.02 | 8.91 | 8.94 | 8.84 | 8.84 | 9.57 | - | - |
| Saturation pH (@ 4C) | NA | 10.4 | 10 | 10.4 | 10.4 | 9.78 | 9.75 | 9.66 | 9.53 | 9.35 | 9.37 | 9.27 | 9.27 | 9.16 | 9.19 | 9.10 | 9.09 | 9.82 | - | - |
| **Inorganics** | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine (Cl)* | mg/L | - | - | - | 0.05 | 0.07 | 0.08 | 0.02 | 0.05 | 0.07 | 0.15 | 0.08 | 0.21 | 0.10 | 0.07 | 0.10 | 0.06 | 0.44 | - | - |
| Total Chlorine* | mg/L | - | - | - | 0.31 | 0.45 | 0.52 | 0.14 | 0.19 | 0.08 | 0.22 | 0.31 | 0.43 | 0.49 | 0.48 | 0.17 | 0.08 | 0.17 | - | <5 |
| Total Alkalinity (Total as CaCO3) | mg/L | 3.4 | 8.7 | 3.9 | 3.5 | 15 | 13 | 14 | 17 | 22 | 21 | 23 | 23 | 27 | 26 | 29 | 30 | 11 | 2 | <300 |
| Dissolved Chloride (Cl) | mg/L | 3.8 | 3 | 3.1 | 3.1 | 3.2 | 3.4 | 3.3 | 4.6 | 3.4 | 3.1 | 4.2 | 4.3 | 4.7 | 3.8 | 5.3 | 4.7 | 4.2 | 1 | <250 |
| Colour | TCU | 47 | 76 | 86 | 62 | 59 | 72 | 62 | 61 | 46 | 170 | 35 | 30 | 30 | 30 | 21 | 27 | 83 | 5 | - |
| Dissolved Fluoride (F) | mg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <4 |
| Nitrate + Nitrite | mg/L | 0.13 | 0.15 | 0.12 | 0.091 | 0.075 | 0.066 | 0.12 | 0.072 | 0.066 | 0.05 | 0.067 | <0.050 | <0.050 | <0.050 | 0.48 | <0.050 | 0.16 | 0.05 | - |
| Nitrite (N) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <1 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.057 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.066 | <0.050 | 0.052 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.058 | 0.05 | - |
| Total Organic Carbon (C) | mg/L | **6.2** | **8** | **7.5** | **8** | **7.7** | **6.9** | **6.4** | **7** | **7.3** | **8.7** | **7.4** | **6.7** | **6.7** | **5.9** | **5.8** | **6.4** | **13** | 0.5 | <4 |
| Orthophosphate (P) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.013 | <0.010 | <0.010 | <0.010 | 0.01 | - |
| pH | pH | 7.14 | 7.03 | 7.09 | 7.04 | 7.14 | 7.2 | 7.32 | 7.41 | 7.39 | 7.54 | 7.6 | 7.57 | 7.69 | 7.58 | 7.57 | 7.69 | 6.99 | - | 6.5 - 7.9 |
| Reactive Silica (SiO2) | mg/L | 3.4 | 2.9 | 3.2 | 3 | 2.2 | 2.3 | 2.4 | 2.3 | 2.1 | 1.5 | 1.8 | 1.4 | 2.5 | 1.9 | 3.0 | 3.7 | 4.5 | 0.5 | <20 |
| Total Suspended Solids | mg/L | 19 | 1.2 | 2.6 | 7.4 | 5.6 | 1.4 | 16 | 20 | 7 | 24 | 1.6 | 76 | 42 | 6.6 | 1.4 | 2.0 | 1.2 | 1 | - |
| Dissolved Sulphate (SO4) | mg/L | 2.9 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 3 | <2.0 | <2.0 | 2.5 | <2.0 | 2.2 | 2.4 | <2.0 | 2 | <100 |
| Turbidity | NTU | 8.6 | 0.87 | **1.2** | 0.98 | 0.72 | 0.77 | **1.3** | **3** | **1.8** | **3** | **2.1** | **4.4** | **10** | **1.1** | 0.77 | **1.7** | **1.1** | 0.1 | <1 |
| Conductivity | µS/cm | 38 | 39 | 34 | 34 | 35 | 42 | 47 | 53 | 64 | 59 | 62 | 66 | 75 | 70 | 81 | 84 | 43 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

* Free and total chlorine measured in the field using a Hach DR300 Pocket Colorimeter via DPD methodology.

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | |
| Dissolved Aluminium (Al) | µg/L | 68 | 86 | 82 | 86 | 72 | 62 | 51 | 38 | 30 | 32 | 24 | 17 | 15 | 9.2 | 10 | 7.4 | 120 | 5 | - |
| Total Aluminium | µg/L | 140 | 100 | 100 | 130 | 130 | 75 | 63 | 85 | 73 | 120 | 58 | 170 | 58 | 12 | 16 | 15 | 130 | 5 | <200 |
| Dissolved Antimony (Sb) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Antimony | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Dissolved Arsenic (As) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | 1.1 | 1.1 | <1.0 | 1 | - |
| Total Arsenic | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | 1.1 | 1.7 | 1.2 | <1.0 | 1.1 | 1.2 | <1.0 | 1 | <10 |
| Dissolved Barium (Ba) | µg/L | 4.8 | 5.2 | 4.9 | 5.6 | 5 | 5.2 | 5.6 | 6.5 | 7.9 | 7.1 | 6.6 | 6.5 | 6.9 | 6.4 | 7.5 | 7.0 | 7.3 | 1 | - |
| Total Barium | µg/L | 6.3 | 4.9 | 4.9 | 5.8 | 5.8 | 5.2 | 5.4 | 8.2 | 8.5 | 8.4 | 7 | 8.5 | 7.1 | 5.9 | 7.6 | 7.3 | 7.3 | 1 | <1000 |
| Dissolved Beryllium (Be) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Beryllium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <4 |
| Dissolved Bismuth (Bi) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Bismuth | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Boron (B) | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | - |
| Total Boron | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | <1000 |
| Dissolved Cadmium (Cd) | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | - |
| Total Cadmium | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.011 | <0.010 | 0.011 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <5 |
| Dissolved Calcium (Ca) | µg/L | 3900 | 3800 | 3700 | 3600 | 3800 | 4600 | 5500 | 6200 | 7300 | 7100 | 8200 | 8000 | 9200 | 8800 | 9900 | 9800 | 4800 | 100 | - |
| Total Calcium | µg/L | 3800 | 3600 | 3600 | 3600 | 3900 | 4600 | 5200 | 6300 | 7500 | 6800 | 7900 | 7700 | 9000 | 8200 | 9600 | 9800 | 5000 | 100 | <100000 |
| Dissolved Chromium (Cr) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Chromium | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | <100 |
| Dissolved Cobalt (Co) | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.4 | - |
| Total Cobalt | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.4 | - |
| Dissolved Copper (Cu) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Copper | µg/L | 0.58 | <0.50 | <0.50 | <0.50 | 0.59 | <0.50 | 0.56 | 0.61 | <0.50 | 0.65 | <0.50 | <0.50 | <0.50 | 22 | <0.50 | <0.50 | 0.59 | 0.5 | <1300 |
| Dissolved Iron (Fe) | µg/L | 57 | 77 | 71 | 65 | 54 | 58 | 75 | 74 | 86 | 110 | 82 | 61 | 64 | <50 | 65 | <50 | 140 | 50 | - |
| Total Iron | µg/L | **220** | 150 | 120 | 160 | **220** | 120 | 130 | **200** | **210** | **360** | 180 | **450** | 190 | 63 | 100 | 110 | 180 | 50 | <200 |
| Dissolved Lead (Pb) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Lead | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <15 |
| Dissolved Lithium (Li) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Lithium | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | <10 |
| Dissolved Magnesium (Mg) | µg/L | 780 | 790 | 740 | 690 | 750 | 900 | 1000 | 1200 | 1400 | 1400 | 1500 | 1500 | 1700 | 1600 | 1800 | 1800 | 980 | 100 | - |
| Total Magnesium | µg/L | 770 | 770 | 720 | 720 | 740 | 860 | 980 | 1100 | 1400 | 1300 | 1400 | 1500 | 1600 | 1600 | 1800 | 1900 | 1000 | 100 | <45000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Metals (cont.)** | | | | | | | | | | | | | | | | | | | | |
| Dissolved Manganese (Mn) | µg/L | 2.7 | 9 | 6.6 | 4.8 | 3 | 3.5 | 5.2 | <2.0 | <2.0 | <2.0 | <2.0 | 7.8 | 24 | 2.1 | 13 | 2.7 | 7.5 | 2 | - |
| Total Manganese | µg/L | 53 | 23 | 13 | 15 | 36 | 8.3 | 12 | 41 | 33 | 64 | 33 | 120 | 44 | 14 | 29 | 29 | 10 | 2 | <300 |
| Dissolved Mercury (Hg) | µg/L | - | - | - | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | 0.013 | - |
| Total Mercury (Hg) | µg/L | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | 0.013 | - |
| Dissolved Molybdenum (Mo) | µg/L | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Molybdenum | µg/L | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Nickel (Ni) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Nickel | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 3.7 | <2.0 | <2.0 | <2.0 | 2 | <100 |
| Dissolved Phosphorus (P) | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 100 | <8500 |
| Total Phosphorus | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 100 | - |
| Dissolved Potassium (K) | µg/L | 130 | 200 | 160 | 160 | 220 | 170 | 190 | 190 | 210 | 240 | 220 | 210 | 250 | 300 | 300 | 300 | 210 | 100 | - |
| Total Potassium | µg/L | 140 | 200 | 150 | 200 | 280 | 160 | 190 | 210 | 220 | 250 | 190 | 210 | 280 | 240 | 240 | 280 | 270 | 100 | <8500 |
| Dissolved Selenium (Se) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Selenium | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <50 |
| Dissolved Silver (Ag) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Silver | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <100 |
| Dissolved Sodium (Na) | µg/L | 2500 | 2600 | 2400 | 2300 | 2300 | 2500 | 2700 | 3000 | 3400 | 3500 | 3300 | 3400 | 3900 | 3500 | 3900 | 3900 | 2800 | 100 | - |
| Total Sodium | µg/L | 2400 | 2500 | 2300 | 2500 | 2400 | 2400 | 2500 | 2800 | 3300 | 3500 | 3100 | 3300 | 3900 | 3300 | 3600 | 3900 | 2800 | 100 | <175000 |
| Dissolved Strontium (Sr) | µg/L | 13 | 13 | 12 | 13 | 14 | 16 | 20 | 21 | 25 | 25 | 28 | 28 | 32 | 31 | 34 | 35 | 18 | 2 | - |
| Total Strontium | µg/L | 13 | 12 | 13 | 13 | 13 | 15 | 18 | 22 | 26 | 25 | 27 | 27 | 32 | 29 | 35 | 36 | 18 | 2 | <225 |
| Dissolved Thallium (Tl) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Thallium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Dissolved Tin (Sn) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Tin | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Titanium (Ti) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Titanium | µg/L | 2.7 | 2.1 | <2.0 | 2.3 | <2.0 | <2.0 | <2.0 | <2.0 | 2.1 | 3.5 | <2.0 | 5.1 | 2.4 | <2.0 | <2.0 | <2.0 | 2.0 | 2 | - |
| Dissolved Uranium (U) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Uranium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Dissolved Vanadium (V) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Vanadium | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | <50 |
| Dissolved Zinc (Zn) | µg/L | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5 | - |
| Total Zinc | µg/L | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5 | <5000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Calculated Parameters** | | | | | | | | | | | | | | | | | | | | |
| Anion Sum | me/L | 0.47 | 0.28 | 0.14 | 0.23 | 0.36 | 0.45 | 0.56 | 0.59 | 0.53 | 0.74 | 0.87 | 0.850 | 1.00 | 0.880 | 0.820 | 0.950 | 0.350 | NA | - |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 17 | 9.3 | 2.5 | 7.4 | 13 | 17 | 22 | 23 | 22 | 29 | 36 | 35 | 40 | 37 | 32 | 37 | 12 | 1 | <150 |
| Calculated Total Dissolved Solids (TDS) | mg/L | 29 | 21 | 15 | 17 | 23 | 28 | 33 | 35 | 32 | 42 | 49 | 47 | 56 | 50 | 46 | 54 | 25 | 1 | <500 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Cation Sum | me/L | 0.49 | 0.41 | 0.34 | 0.33 | 0.44 | 0.52 | 0.62 | 0.67 | 0.64 | 0.8 | 0.96 | 0.930 | 1.06 | 1.02 | 0.860 | 0.990 | 0.470 | NA | - |
| Hardness (CaCO3) | mg/L | 17 | 15 | 12 | 11 | 17 | 20 | 24 | 26 | 25 | 32 | 39 | 38 | 43 | 41 | 34 | 40 | 17 | 1 | <435 |
| Ion Balance (% Difference) | % | 2.08 | 18.8 | 41.7 | 17.9 | 10 | 7.22 | 5.08 | 6.35 | 9.4 | 3.9 | 4.92 | 4.49 | 2.91 | 7.37 | 2.38 | 2.06 | 14.6 | NA | - |
| Langelier Index (@ 20C) | NA | -2.17 | -2.5 | -3.25 | -2.85 | -2.17 | -1.86 | -1.55 | -1.84 | -1.5 | -1.15 | -0.713 | -0.878 | -0.733 | -1.15 | -1.12 | -0.878 | -2.48 | - | - |
| Langelier Index (@ 4C) | NA | -2.42 | -2.75 | -3.51 | -3.1 | -2.42 | -2.11 | -1.8 | -2.09 | -1.75 | -1.4 | -0.965 | -1.13 | -0.985 | -1.41 | -1.37 | -1.13 | -2.74 | - | - |
| Nitrate (N) | mg/L | 0.16 | 0.16 | 0.12 | 0.099 | 0.084 | 0.12 | 0.14 | 0.12 | 0.091 | 0.093 | 0.087 | 0.060 | <0.050 | <0.050 | <0.050 | 0.052 | 0.17 | 0.05 | <10 |
| Saturation pH (@ 20C) | NA | 9.36 | 9.66 | 10.3 | 9.86 | 9.45 | 9.27 | 9.07 | 9.04 | 9.08 | 8.85 | 8.66 | 8.69 | 8.59 | 8.63 | 8.78 | 8.65 | 9.51 | - | - |
| Saturation pH (@ 4C) | NA | 9.61 | 9.91 | 10.6 | 10.1 | 9.7 | 9.52 | 9.33 | 9.29 | 9.33 | 9.1 | 8.92 | 8.94 | 8.84 | 8.88 | 9.04 | 8.90 | 9.76 | - | - |
| **Inorganics** | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine (Cl)* | mg/L | - | - | - | 0.01 | 0.03 | 0.02 | 0.02 | 0.03 | 0.07 | 0.03 | 0.02 | 0.03 | 0.02 | 0.04 | - | 0.03 | - | - | - |
| Total Chlorine* | mg/L | - | - | - | 0.05 | 0.05 | 0.06 | 0.12 | 0.07 | 0.09 | 0.1 | 0.07 | 0.12 | 0.08 | 0.04 | - | 0.09 | - | - | <5 |
| Total Alkalinity (Total as CaCO3) | mg/L | 17 | 9.3 | 2.5 | 7.4 | 13 | 17 | 22 | 23 | 22 | 29 | 36 | 35 | 40 | 37 | 32 | 37 | 12 | 2 | <300 |
| Dissolved Chloride (Cl) | mg/L | 4.6 | 2.8 | 2.9 | 2.5 | 3.2 | 3.9 | 3.6 | 4.6 | 2.9 | 3.7 | 5 | 5.1 | 5.2 | 4.8 | 5.2 | 5.3 | 3.8 | 1 | <250 |
| Colour | TCU | 57 | 58 | 81 | 61 | 59 | 58 | 55 | 53 | 44 | 55 | 36 | 29 | 26 | 23 | 22 | 26 | 81 | 5 | - |
| Dissolved Fluoride (F) | mg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <4 |
| Nitrate + Nitrite | mg/L | 0.16 | 0.16 | 0.12 | 0.099 | 0.084 | 0.12 | 0.14 | 0.12 | 0.091 | 0.093 | 0.087 | 0.060 | <0.050 | <0.050 | <0.050 | 0.067 | 0.17 | 0.05 | - |
| Nitrite (N) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.015 | <0.010 | 0.01 | <1 |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.051 | <0.050 | <0.050 | 0.052 | <0.050 | <0.050 | <0.050 | 0.051 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.10 | <0.050 | <0.050 | 0.060 | 0.05 | - |
| Total Organic Carbon (C) | mg/L | **6.2** | **6** | **7.5** | **7.6** | **7.4** | **6.6** | **6.3** | **6** | **6.3** | **6.8** | **5.8** | **5.4** | **5.7** | **5.4** | **5.5** | **5.6** | **12** | 0.5 | <4 |
| Orthophosphate (P) | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | - |
| pH | pH | 7.19 | 7.16 | 7.06 | 7.02 | 7.28 | 7.41 | 7.53 | 7.2 | 7.58 | 7.7 | **7.95** | 7.81 | 7.85 | 7.48 | 7.66 | 7.77 | 7.03 | - | 6.5 - 7.9 |
| Reactive Silica (SiO2) | mg/L | 4 | 3.5 | 3 | 3.1 | 2.5 | 3 | 3.1 | 3.1 | 2.5 | 2.7 | 2.9 | 2.9 | 3.3 | 3.4 | 3.2 | 4.0 | 4.7 | 0.5 | <20 |
| Total Suspended Solids | mg/L | 1.2 | 1 | <1.0 | <1.0 | 1.2 | 4.6 | 3.2 | 2.2 | 3.6 | <1.0 | <1.0 | 1.2 | <1.0 | 15 | <1.0 | 1.8 | <1.0 | 1 | - |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.2 | <2.0 | <2.0 | 2.7 | <2.0 | 2.1 | 2.5 | <2.0 | 2 | <100 |
| Turbidity | NTU | 0.48 | 0.93 | 0.84 | 0.65 | 0.78 | **1.2** | 0.38 | 0.64 | **1.3** | 0.69 | 0.39 | **4.7** | 0.64 | 0.70 | 0.78 | 0.50 | 0.81 | 0.1 | <1 |
| Conductivity | µS/cm | 50 | 43 | 32 | 32 | 42 | 52 | 61 | 64 | 64 | 77 | 94 | 93 | 100 | 97 | 85 | 100 | 44 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

* Free and total chlorine measured in the field using a Hach DR300 Pocket Colorimeter via DPD methodology.

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Metals** | | | | | | | | | | | | | | | | | | | | |
| Dissolved Aluminium (Al) | µg/L | 75 | 72 | 84 | 88 | 75 | 60 | 48 | 41 | 29 | 26 | 21 | 12 | 10 | 7.9 | 7.4 | 6.7 | 130 | 5 | - |
| Total Aluminium | µg/L | 110 | 93 | 110 | 100 | 87 | 72 | 57 | 49 | 43 | 47 | 27 | 17 | 14 | 16 | 12 | 13 | 130 | 5 | <200 |
| Dissolved Antimony (Sb) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Antimony | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Dissolved Arsenic (As) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 1.0 | <1.0 | <1.0 | 1 | - |
| Total Arsenic | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | 1.2 | <1.0 | 1.0 | 1.1 | 1.1 | <1.0 | <1.0 | 1 | <10 |
| Dissolved Barium (Ba) | µg/L | 9.2 | 5.4 | 4.7 | 5.3 | 8.4 | 9.3 | 11 | 11 | 8.9 | 14 | 16 | 15 | 17 | 17 | 12 | 17 | 8.9 | 1 | - |
| Total Barium | µg/L | 9.2 | 5.8 | 4.8 | 4.9 | 8.1 | 9.3 | 11 | 11 | 9 | 14 | 16 | 15 | 16 | 17 | 12 | 17 | 8.5 | 1 | <1000 |
| Dissolved Beryllium (Be) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Beryllium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <4 |
| Dissolved Bismuth (Bi) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Bismuth | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Boron (B) | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | - |
| Total Boron | µg/L | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | <1000 |
| Dissolved Cadmium (Cd) | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | - |
| Total Cadmium | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <5 |
| Dissolved Calcium (Ca) | µg/L | 5100 | 4500 | 3600 | 3500 | 5100 | 6200 | 7500 | 7900 | 7500 | 9800 | 12000 | 12000 | 13000 | 13000 | 11000 | 12000 | 5100 | 100 | - |
| Total Calcium | µg/L | 5200 | 4400 | 3600 | 3300 | 5200 | 6000 | 7400 | 7600 | 7000 | 9200 | 12000 | 12000 | 13000 | 12000 | 10000 | 12000 | 5100 | 100 | <100000 |
| Dissolved Chromium (Cr) | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Chromium | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | <100 |
| Dissolved Cobalt (Co) | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.4 | - |
| Total Cobalt | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | 0.4 | - |
| Dissolved Copper (Cu) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Copper | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <1300 |
| Dissolved Iron (Fe) | µg/L | 82 | 71 | 72 | 67 | 63 | 65 | 80 | 85 | 86 | 100 | 78 | <50 | <50 | <50 | <50 | <50 | 140 | 50 | - |
| Total Iron | µg/L | **200** | 150 | 130 | 110 | 110 | 110 | 110 | 130 | 140 | 180 | 100 | 78 | 69 | 91 | 74 | 65 | 170 | 50 | <200 |
| Dissolved Lead (Pb) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Lead | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <15 |
| Dissolved Lithium (Li) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Lithium | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | <10 |
| Dissolved Magnesium (Mg) | µg/L | 970 | 870 | 710 | 660 | 920 | 1100 | 1300 | 1400 | 1400 | 1700 | 1900 | 1900 | 2300 | 2100 | 1900 | 2100 | 1000 | 100 | - |
| Total Magnesium | µg/L | 1000 | 930 | 700 | 640 | 880 | 1100 | 1300 | 1300 | 1300 | 1600 | 2000 | 1900 | 2100 | 2000 | 1900 | 2000 | 1000 | 100 | <45000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 1: Water Quality Analysis - General Chemistry and Metals (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Metals (cont.)** | | | | | | | | | | | | | | | | | | | | |
| Dissolved Manganese (Mn) | µg/L | 12 | 16 | 6.7 | 5.3 | 5 | 5.2 | 5.9 | 3.8 | <2.0 | 5.8 | 8.7 | 6.0 | 6.4 | 4.6 | 6.7 | 9.4 | 9.8 | 2 | - |
| Total Manganese | µg/L | 48 | 30 | 14 | 8.8 | 11 | 11 | 9.8 | 12 | 21 | 32 | 15 | 15 | 11 | 20 | 23 | 16 | 13 | 2 | <300 |
| Dissolved Mercury (Hg) | µg/L | - | - | - | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | 0.013 | - |
| Total Mercury (Hg) | µg/L | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | - | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | 0.013 | - |
| Dissolved Molybdenum (Mo) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Molybdenum | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Nickel (Ni) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Nickel | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | <100 |
| Dissolved Phosphorus (P) | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 100 | <8500 |
| Total Phosphorus | µg/L | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | 100 | - |
| Dissolved Potassium (K) | µg/L | 180 | 150 | 150 | 150 | 170 | 180 | 220 | 220 | 210 | 230 | 240 | 220 | 270 | 290 | 300 | 300 | 220 | 100 | - |
| Total Potassium | µg/L | 160 | 160 | 140 | 170 | 120 | 170 | 240 | 190 | 210 | 310 | 220 | 230 | 450 | 280 | 260 | 280 | 190 | 100 | <8500 |
| Dissolved Selenium (Se) | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Total Selenium | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <50 |
| Dissolved Silver (Ag) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Silver | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | <100 |
| Dissolved Sodium (Na) | µg/L | 3300 | 2600 | 2200 | 2100 | 2400 | 2700 | 3000 | 3200 | 3300 | 3800 | 4100 | 4000 | 4500 | 4400 | 3900 | 4200 | 2700 | 100 | - |
| Total Sodium | µg/L | 3400 | 2700 | 2200 | 2100 | 2400 | 2600 | 3000 | 3000 | 3000 | 3600 | 4000 | 3900 | 4700 | 4000 | 3800 | 4100 | 2600 | 100 | <175000 |
| Dissolved Strontium (Sr) | µg/L | 17 | 15 | 12 | 12 | 18 | 21 | 27 | 27 | 26 | 34 | 43 | 41 | 47 | 45 | 37 | 44 | 19 | 2 | - |
| Total Strontium | µg/L | 17 | 15 | 13 | 11 | 18 | 21 | 25 | 26 | 25 | 34 | 42 | 40 | 45 | 42 | 36 | 42 | 18 | 2 | <225 |
| Dissolved Thallium (Tl) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Thallium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Dissolved Tin (Sn) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Tin | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Dissolved Titanium (Ti) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Titanium | µg/L | <2.0 | <2.0 | 2.1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.1 | 2 | - |
| Dissolved Uranium (U) | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Total Uranium | µg/L | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.1 | - |
| Dissolved Vanadium (V) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Vanadium | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | <50 |
| Dissolved Zinc (Zn) | µg/L | <5.0 | 5.1 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 5.2 | <5.0 | <5.0 | 5 | - |
| Total Zinc | µg/L | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 6.9 | <5.0 | <5.0 | 5.4 | <5.0 | <5.0 | <5.0 | <5.0 | 5 | <5000 |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | <0.050 | 0.050 | - |
| 2-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | <0.050 | 0.050 | - |
| Acenaphthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Acenaphthylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(b)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(b/j)fluoranthene | µg/L | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | - | <0.020 | <0.020 | 0.020 | - |
| Benzo(g,h,i)perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(j)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Benzo(k)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Chrysene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Dibenzo(a,h)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Fluorene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Indeno(1,2,3-cd)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Naphthalene | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | <0.20 | <0.20 | 0.20 | - |
| Perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |
| Phenanthrene | µg/L | <0.010 | <0.010 | 0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <0.010 | 0.015 | 0.017 | <0.010 | - | <0.010 | 0.012 | 0.010 | - |
| Pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | <0.010 | 0.010 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| 1,1-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| 1,1,1-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| 1,1,2-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| 1,1,2,2-Tetrachloroethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| Ethylene Dibromide | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | <0.20 | <0.20 | 0.2 | - |
| 1,2-Dichlorobenzene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| cis-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| trans-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloropropane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| 1,3-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| cis-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| trans-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| 1,4-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Benzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Bromodichloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Bromoform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Bromomethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| Carbon Tetrachloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| Chlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Chloroethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | - | <8.0 | <8.0 | 8 | |
| Chloroform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Chloromethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | - | <8.0 | <8.0 | 8 | - |
| Dibromochloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Methylene Chloride(Dichloromethane) | µg/L | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | - | <3.0 | <3.0 | 3 | - |
| Ethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Methyl t-butyl ether (MTBE) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| Styrene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Tetrachloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Toluene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Trichloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Trichlorofluoromethane (FREON 11) | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | - | <8.0 | <8.0 | 8 | - |
| Vinyl Chloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | <0.50 | <0.50 | 0.5 | - |
| o-Xylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| p+m-Xylene | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | <2.0 | <2.0 | 2 | - |
| Total Xylenes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |
| Total Trihalomethanes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | <1.0 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-3 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - | <0.0010 | <0.0010 | 0.0010 | - |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - | <0.0010 | <0.0010 | 0.0010 | - |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - | <0.0010 | <0.0010 | 0.0010 | - |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | - | <0.0020 | <0.0020 | 0.0020 | - |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | - | <0.090 | <0.090 | 0.090 | - |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | <0.050 | 0.050 | - |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | <0.050 | 0.050 | - |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | - | <0.090 | <0.090 | 0.090 | - |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | - | <0.090 | <0.090 | 0.090 | - |
| Reached Baseline at C32 | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - | NA | NA | NA | - |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - | NA | NA | NA | - |
| **Permanent Gases (Water)** | | | | | | | | | | | | | | | | | | | | |
| Carbon Dioxide | $L/m^3$ | 1.4 | 2.5 | 1.4 | 1 | 0.8 | 1.1 | 1.4 | 1.2 | 1.2 | 1.1 | 2.8 | 0.9 | 1.3 | 1.6 | - | 1.3 | 2.8 | 0.6 | - |
| Calculated Carbon Dioxide | mg/L | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 3 | - | 2 | 5 | 1 | <7 |
| **Microbiological** | | | | | | | | | | | | | | | | | | | | |
| Total Coliforms | MPN/100mL | - | 326 | 261 | 225 | 233 | 461 | 276 | 411 | >2420 | 1410 | 2420 | 1550 | 980 | 980 | - | 397 | 260 | 10/1[5] | - |
| Escherichia coli | MPN/100mL | - | 61 | 54 | 20 | 11 | 23 | 40 | 33 | 166 | 108 | 2420 | 126 | 71 | 166 | - | 6 | 47 | 10/1[5] | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL
2. Samples collected on dates indicated (YY/MM/DD)
3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.
4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.
5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| 2-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| Acenaphthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Acenaphthylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(b)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(b/j)fluoranthene | µg/L | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | - |
| Benzo(g,h,i)perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(j)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(k)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Chrysene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Dibenzo(a,h)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Fluorene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Indeno(1,2,3-cd)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Naphthalene | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | - |
| Perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Phenanthrene | µg/L | <0.010 | <0.010 | 0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.020 (1) | <0.010 | 0.018 | 0.023 | <0.010 | 0.016 | <0.010 | 0.014 | 0.010 | - |
| Pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| 1,1-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,1,1-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| 1,1,2-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| 1,1,2,2-Tetrachloroethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Ethylene Dibromide | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.2 | - |
| 1,2-Dichlorobenzene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| cis-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| trans-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloropropane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,3-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| cis-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| trans-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,4-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Benzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromodichloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromoform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromomethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Carbon Tetrachloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Chlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Chloroethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | |
| Chloroform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Chloromethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | - |
| Dibromochloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Methylene Chloride(Dichloromethane) | µg/L | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | 3 | - |
| Ethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Methyl t-butyl ether (MTBE) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Styrene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Tetrachloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Toluene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Trichloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Trichlorofluoromethane (FREON 11) | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | - |
| Vinyl Chloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| o-Xylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| p+m-Xylene | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Xylenes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Trihalomethanes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-4 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | - |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| Reached Baseline at C32 | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - |
| **Permanent Gases (Water)** | | | | | | | | | | | | | | | | | | | | |
| Carbon Dioxide | $L/m^3$ | 4.2 | 3.1 | 0.7 | 0.7 | <0.6 | <0.6 | <0.6 | 0.8 | 0.7 | 1.4 | 0.9 | 0.7 | <0.6 | 0.9 | 0.7 | <0.6 | 4.8 | 0.6 | - |
| Calculated Carbon Dioxide | mg/L | **8** | 6 | 1 | 1 | <1 | <1 | <1 | 1 | 1 | 3 | 2 | 1 | <1 | 2 | 1 | <1 | **9** | 1 | <7 |
| **Microbiological** | | | | | | | | | | | | | | | | | | | | |
| Total Coliforms | MPN/100mL | - | 270 | 71 | 248 | 102 | 179 | 196 | 345 | >2420 | 1730 | 2420 | 2420 | 816 | 1414 | >2420 | 313 | 365 | 10/1[5] | - |
| Escherichia coli | MPN/100mL | - | 50 | 9 | 5 | 2 | <1 | 1 | 1 | 15 | 11 | 137 | 66 | 1 | 6 | 4 | 14 | 26 | 10/1[5] | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL
2. Samples collected on dates indicated (YY/MM/DD)
3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.
4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.
5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| 2-Methylnaphthalene | µg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| Acenaphthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Acenaphthylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(a)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(b)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(b/j)fluoranthene | µg/L | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | - |
| Benzo(g,h,i)perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(j)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Benzo(k)fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Chrysene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Dibenzo(a,h)anthracene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Fluoranthene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Fluorene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Indeno(1,2,3-cd)pyrene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Naphthalene | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | - |
| Perylene | µg/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |
| Phenanthrene | µg/L | <0.010 | 0.021 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.01 | <0.010 | 0.014 | 0.020 | <0.010 | 0.018 | <0.010 | 0.012 | 0.010 | - |
| Pyrene | µg/L | <0.010 | <0.011 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| 1,1-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,1,1-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| 1,1,2-Trichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| 1,1,2,2-Tetrachloroethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Ethylene Dibromide | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.2 | - |
| 1,2-Dichlorobenzene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloroethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| cis-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| trans-1,2-Dichloroethylene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,2-Dichloropropane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,3-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| cis-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| trans-1,3-Dichloropropene | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| 1,4-Dichlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Benzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromodichloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromoform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Bromomethane | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Carbon Tetrachloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| Chlorobenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Chloroethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | |
| Chloroform | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Chloromethane | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | - |
| Dibromochloromethane | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Methylene Chloride(Dichloromethane) | µg/L | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | 3 | - |
| Ethylbenzene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Methyl t-butyl ether (MTBE) | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Styrene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Tetrachloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Toluene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Trichloroethylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Trichlorofluoromethane (FREON 11) | µg/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8 | - |
| Vinyl Chloride | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | - |
| o-Xylene | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| p+m-Xylene | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2 | - |
| Total Xylenes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |
| Total Trihalomethanes | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL

2. Samples collected on dates indicated (YY/MM/DD)

3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.

4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.

5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 2: Water Quality Analysis - Organic Chemical Parameters, Gases, Microbiological (cont.)** **Project #24-10265**

**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Parameters | Units | Sample ID[1,2,3] | | | | | | | | | | | | | | | | | Detection Limit | Input Water Standard[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WQM-5 | | | | | | | | | | | | | | | | | | |
| | | 25/04/10 | 25/04/16 | 25/04/23 | 25/04/30 | 25/05/07 | 25/05/14 | 25/05/22 | 25/05/28 | 25/06/11 | 25/06/25 | 25/07/09 | 25/07/23 | 25/08/06 | 25/08/20 | 25/09/03 | 25/09/18 | 25/11/26 | | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | - |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | - |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | - |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | - |
| Reached Baseline at C32 | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | - |
| **Permanent Gases (Water)** | | | | | | | | | | | | | | | | | | | | |
| Carbon Dioxide | $L/m^3$ | 5.6 | 3.7 | 0.9 | 0.7 | <0.6 | <0.6 | <0.6 | 0.7 | 0.9 | 0.7 | 1.5 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | 3.5 | 0.6 | - |
| Calculated Carbon Dioxide | mg/L | **10** | **7** | 2 | 1 | <1 | <1 | <1 | 1 | 2 | 1 | 3 | <1 | <1 | <1 | <1 | <1 | 6 | 1 | <7 |
| **Microbiological** | | | | | | | | | | | | | | | | | | | | |
| Total Coliforms | MPN/100mL | - | 82 | 155 | 167 | 166 | 248 | 308 | 345 | 980 | >2420 | 1550 | 1410 | 2420 | 649 | 687 | 1010 | 387 | 10/1[5] | - |
| Escherichia coli | MPN/100mL | - | 4 | 39 | 8 | 2 | <1 | 1 | 1 | 22 | 4 | 7 | 28 | 5 | 32 | 13 | 34 | 36 | 10/1[5] | - |

**Notes:**

1. Laboratory analysis of chemical parameters completed by Bureau Veritas Laboratories, Bedford, NS; microbiological analysis completed by AGAT Laboratories, St. John's, NL
2. Samples collected on dates indicated (YY/MM/DD)
3. Sample locations: WQM3 - Peters Pond inlet; WQM4 - Peters Pond water body; WQM5 - Peters Pond outlet.
4. Results compared to the Input Water Standard, Electric Hydrogen Electrolyser Plant, Electric Hydrogen Document No. EH2-SP-20-0003-A (dated January 2024) - provided by the Client.
5. Detection limit for microbiological analysis

"-" = Not analyzed or no applicable guideline

**Results that exceed the Input Water Standard are shaded and bolded**

**Table 3: Water Quality Analysis - Measured Surface Water Field Parameters** **Project #24-10265**
**Plant Influent Water Quality Monitoring Program, Peters Pond, NL**

| Location ID | Date (yy/mm/dd) | Temperature (°C) | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) | pH (unitless) | ORP (mV) |
|---|---|---|---|---|---|---|
| WQM-3 | 25/04/10 | - | - | - | - | - |
| | 25/04/16 | 3.1 | 12.52 | 32.6 | 6.26 | 119.4 |
| | 25/04/23 | 4.2 | 15.12 | 33.5 | 7.48 | 121.4 |
| | 25/04/30 | 7.0 | 11.31 | 36.2 | 7.37 | - |
| | 25/05/07 | 12.1 | 10.64 | 60.8 | 7.31 | - |
| | 25/05/14 | 7.6 | 12.17 | 77.2 | 6.90 | 127.7 |
| | 25/05/22 | - | - | - | - | - |
| | 25/05/28 | - | - | - | - | - |
| | 25/06/11 | 15.8 | 8.15 | 56.8 | 7.28 | - |
| | 25/06/25 | 19.0 | 8.64 | 117.7 | 7.71 | - |
| | 25/07/09 | 20.7 | 8.05 | 139.7 | 7.75 | - |
| | 25/07/23 | 17.9 | 9.21 | 161.3 | 7.80 | - |
| | 25/08/06 | 20.8 | 8.36 | 129.5 | 7.71 | - |
| | 25/08/20 | 15.4 | - | 154.8 | 7.76 | - |
| | 25/09/03 | - | - | - | - | |
| | 25/09/18 | 13.5 | 7.20 | 97.3 | 7.33 | |
| | 25/11/26 | - | - | - | - | - |
| WQM-4 | 25/04/10 | - | - | - | - | - |
| | 25/04/16 | 3.3 | 11.60 | 47.3 | 6.64 | 186.3 |
| | 25/04/23 | 4.4 | 12.50 | 50.0 | 6.91 | 192.5 |
| | 25/04/30 | 7.3 | 12.37 | 40.6 | 7.43 | 122.7 |
| | 25/05/07 | 11.0 | 12.34 | 40.7 | 7.43 | - |
| | 25/05/14 | 7.7 | 13.03 | 48.3 | 7.05 | 164.4 |
| | 25/05/22 | - | - | - | - | - |
| | 25/05/28 | - | - | - | - | - |
| | 25/06/11 | 15.8 | 8.53 | 69.8 | 7.51 | - |
| | 25/06/25 | 22.6 | 8.36 | 65.0 | 7.83 | - |
| | 25/07/09 | 18.9 | 6.40 | 70.2 | 7.64 | - |
| | 25/07/23 | 21.1 | - | 75.1 | 8.13 | - |
| | 25/08/06 | 23.5 | 8.57 | 86.8 | 8.17 | - |
| | 25/08/20 | 17.0 | - | 83.1 | 8.13 | - |
| | 25/09/03 | 18.9 | 6.40 | 70.2 | 7.64 | - |
| | 25/09/18 | 16.2 | 9.63 | 80.9 | 7.53 | - |
| | 25/11/26 | - | - | - | - | - |
| WQM-5 | 25/04/10 | - | - | - | - | - |
| | 25/04/16 | 3.9 | 13.41 | 48.8 | 6.64 | 192.3 |
| | 25/04/23 | 4.3 | 14.80 | 51.2 | 6.79 | 194.6 |
| | 25/04/30 | 7.4 | 12.45 | 37.2 | 6.97 | 141.1 |
| | 25/05/07 | 10.0 | 11.90 | 49.9 | 7.58 | - |
| | 25/05/14 | 6.9 | 12.58 | 58.7 | 7.19 | 115.4 |
| | 25/05/22 | - | - | - | - | - |
| | 25/05/28 | - | - | - | - | - |
| | 25/06/11 | 16.3 | 8.97 | 69.8 | 7.55 | - |
| | 25/06/25 | 20.7 | 1.83 | 86.7 | 7.89 | - |
| | 25/07/09 | 23.5 | 7.45 | 104.2 | 8.38 | - |
| | 25/07/23 | 19.3 | 0.01 | 106.4 | 8.31 | - |
| | 25/08/06 | 18.2 | 0.02 | 116.0 | 8.12 | - |
| | 25/08/20 | 15.6 | - | 109.5 | 8.34 | - |
| | 25/09/03 | 18.0 | - | 98.1 | 7.78 | |
| | 25/09/18 | 13.1 | 0.01 | 97.6 | 7.57 | |
| | 25/11/26 | - | - | - | - | - |

**Notes:**
°C = Degrees celcius
mg/L = milligrams per litre
µS/cm = microSiemens per centimetre
mV = millivolts

Your P.O. #: 24-10266 TASK 23
Your Project #: 24-10265
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/04/29**
Report #: R8528787
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C541979**
**Received: 2025/04/16, 10:10**

Sample Matrix: Sea Water
# Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| VPH in Water (PIRI) | 1 | N/A | 2025/04/21 | ATL SOP 00130 | Atl. RBCA v3.1 m |

Sample Matrix: Water
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 10 | N/A | 2025/04/23 | N/A | SM 24 4500-CO2 D |
| Carbonate, Bicarbonate and Hydroxide | 1 | N/A | 2025/04/24 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 10 | N/A | 2025/04/22 | ATL SOP 00142 | SM 24 2320 B |
| Alkalinity | 1 | N/A | 2025/04/23 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 11 | N/A | 2025/04/22 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/04/21 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Chloride | 7 | N/A | 2025/04/22 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Chloride | 1 | N/A | 2025/04/23 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (4) | 3 | N/A | 2025/04/24 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/04/22 | ATL SOP 00020 | SM 24 2120C m |
| Colour | 8 | N/A | 2025/04/23 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 9 | N/A | 2025/04/22 | ATL SOP 00004 | SM 24 2510B m |
| Conductance - water | 2 | N/A | 2025/04/23 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 11 | 2025/04/21 | 2025/04/21 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 10 | N/A | 2025/04/22 | ATL SOP 00043 | SM 24 4500-F- C m |
| Fluoride | 1 | N/A | 2025/04/23 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (4) | 3 | N/A | 2025/04/17 | | |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/04/22 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 9 | N/A | 2025/04/23 | ATL SOP 00048 | Auto Calc |
| Mercury - Total (CVAA,LL) | 11 | 2025/04/21 | 2025/04/21 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (1) | 2 | N/A | 2025/04/21 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS- Lab Filtered (1) | 8 | N/A | 2025/04/22 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS- Lab Filtered (1) | 1 | N/A | 2025/04/23 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 7 | 2025/04/21 | 2025/04/22 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/04/21 | 2025/04/23 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/04/21 | 2025/04/24 | ATL SOP 00058 | EPA 6020B R2 m |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10266 TASK 23
Your Project #: 24-10265
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/04/29**
Report #: R8528787
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C541979**
**Received: 2025/04/16, 10:10**

Sample Matrix: Water
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Ion Balance (% Difference) | 10 | N/A | 2025/04/23 | N/A | Auto Calc. |
| Ion Balance (% Difference) | 1 | N/A | 2025/04/24 | N/A | Auto Calc. |
| Anion and Cation Sum | 10 | N/A | 2025/04/23 | N/A | Auto Calc. |
| Anion and Cation Sum | 1 | N/A | 2025/04/24 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 11 | N/A | 2025/04/21 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/04/21 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrate + Nitrite | 8 | N/A | 2025/04/23 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/04/21 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrite | 8 | N/A | 2025/04/23 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/04/22 | ATL SOP 00018 | ASTM D3867-16 |
| Nitrogen - Nitrate (as N) | 8 | N/A | 2025/04/23 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 4 | 2025/04/17 | 2025/04/21 | ATL SOP 00103 | EPA 8270E R6 m |
| PAH in Water by GC/MS (SIM) | 7 | 2025/04/17 | 2025/04/22 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (2) | 10 | N/A | 2025/04/22 | ATL SOP 00003 | SM 24 4500-H+ B m |
| pH (2) | 1 | N/A | 2025/04/23 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/04/22 | ATL SOP 00021 | SM 24 4500-P E m |
| Phosphorus - ortho | 8 | N/A | 2025/04/23 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 10 | N/A | 2025/04/23 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 20C) | 1 | N/A | 2025/04/24 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 10 | N/A | 2025/04/23 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 1 | N/A | 2025/04/24 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/04/21 | ATL SOP 00022 | EPA 366.0 m |
| Reactive Silica | 8 | N/A | 2025/04/22 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/04/21 | ATL SOP 00023 | ASTM D516-16 m |
| Sulphate | 8 | N/A | 2025/04/22 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 10 | N/A | 2025/04/23 | N/A | Auto Calc. |
| Total Dissolved Solids (TDS calc) | 1 | N/A | 2025/04/24 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (3) | 11 | N/A | 2025/04/22 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 11 | N/A | 2025/04/22 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 11 | 2025/04/17 | 2025/04/23 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 11 | N/A | 2025/04/23 | ATL SOP 00011 | EPA 180.1 R2 m |



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Your P.O. #: 24-10266 TASK 23
Your Project #: 24-10265
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/04/29**
Report #: R8528787
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C541979**
**Received: 2025/04/16, 10:10**

Sample Matrix: Water
# Samples Received: 11

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Volatile Organic Compounds in Water | 11 | N/A | 2025/04/17 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 11 | N/A | 2025/04/21 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Sample filtered in laboratory prior to analysis for dissolved metals.
(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.
(4) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8


Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10266 TASK 23
Your Project #: 24-10265
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/04/29**
Report #: R8528787
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C541979**
**Received: 2025/04/16, 10:10**

Encryption Key

Bureau Veritas
29 Apr 2025 18:08:28

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas Job #: C541979
Report Date: 2025/04/29

Strum Environmental
Client Project #: 24-10265
Site Location: BOTWOOD
Your P.O. #: 24-10266 TASK 23

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | APXS13 | | | APXS14 | | | APXS15 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/11 | | | 2025/04/11 | | | 2025/04/10 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-1 | RDL | QC Batch | WQM-2 | RDL | QC Batch | WQM-3 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.180 | N/A | 9911603 | 0.120 | N/A | 9911603 | 0.470 | N/A | 9911603 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 4.2 | 1.0 | 9911599 | 2.6 | 1.0 | 9911599 | 18 | 1.0 | 9911599 |
| Calculated TDS | mg/L | 14 | 1.0 | 9911608 | 11 | 1.0 | 9911608 | 29 | 1.0 | 9911608 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9911599 | <1.0 | 1.0 | 9911599 | <1.0 | 1.0 | 9911599 |
| Cation Sum | me/L | 0.250 | N/A | 9911603 | 0.200 | N/A | 9911603 | 0.500 | N/A | 9911603 |
| Hardness (CaCO3) | mg/L | 7.2 | 1.0 | 9911601 | 6.3 | 1.0 | 9911601 | 19 | 1.0 | 9911601 |
| Ion Balance (% Difference) | % | 16.3 | N/A | 9911602 | 25.0 | N/A | 9911602 | 3.09 | N/A | 9911602 |
| Langelier Index (@ 20C) | N/A | -3.66 | | 9911606 | -3.83 | | 9911606 | -1.98 | | 9911606 |
| Langelier Index (@ 4C) | N/A | -3.91 | | 9911607 | -4.08 | | 9911607 | -2.24 | | 9911607 |
| Nitrate (N) | mg/L | 0.059 | 0.050 | 9911604 | <0.050 | 0.050 | 9911604 | 0.18 | 0.050 | 9911604 |
| Saturation pH (@ 20C) | N/A | 10.3 | | 9911606 | 10.6 | | 9911606 | 9.27 | | 9911606 |
| Saturation pH (@ 4C) | N/A | 10.6 | | 9911607 | 10.8 | | 9911607 | 9.52 | | 9911607 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 4.2 | 2.0 | 9913722 | 2.6 | 2.0 | 9913722 | 18 | 2.0 | 9913722 |
| Dissolved Chloride (Cl-) | mg/L | 3.1 | 1.0 | 9912919 | 2.3 | 1.0 | 9913718 | 3.8 | 1.0 | 9912919 |
| Colour | TCU | 57 | 10 | 9912922 | 42 | 5.0 | 9913908 | 50 | 5.0 | 9912922 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9913725 | <0.10 | 0.10 | 9913725 | <0.10 | 0.10 | 9913725 |
| Nitrate + Nitrite (N) | mg/L | 0.059 | 0.050 | 9912914 | <0.050 | 0.050 | 9913910 | 0.18 | 0.050 | 9912914 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9912911 | <0.010 | 0.010 | 9913911 | <0.010 | 0.010 | 9912911 |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.095 | 0.050 | 9913607 | <0.050 | 0.050 | 9913607 | <0.050 | 0.050 | 9913607 |
| Total Organic Carbon (C) | mg/L | 6.6 | 0.50 | 9913493 | 5.6 | 0.50 | 9913493 | 6.3 | 0.50 | 9913493 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9912924 | <0.010 | 0.010 | 9913909 | <0.010 | 0.010 | 9912924 |
| pH | pH | 6.69 | | 9913689 | 6.74 | | 9913689 | 7.29 | | 9913689 |
| Reactive Silica (SiO2) | mg/L | 3.6 | 0.50 | 9912923 | 2.7 | 0.50 | 9913907 | 4.3 | 0.50 | 9912923 |
| Total Suspended Solids | mg/L | <1.0 | 1.0 | 9911798 | 5.8 | 1.0 | 9911798 | 32 | 2.0 | 9911798 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9912921 | <2.0 | 2.0 | 9913906 | <2.0 | 2.0 | 9912921 |
| Turbidity | NTU | 0.61 | 0.10 | 9914868 | 0.73 | 0.10 | 9914868 | 7.0 | 0.10 | 9914873 |
| Conductivity | uS/cm | 25 | 1.0 | 9913719 | 21 | 1.0 | 9913719 | 50 | 1.0 | 9913719 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C541979
Report Date: 2025/04/29

Strum Environmental
Client Project #: 24-10265
Site Location: BOTWOOD
Your P.O. #: 24-10266 TASK 23

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | APXS15 | | | APXS16 | | | APXS17 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | | | 2025/04/10 | | | 2025/04/10 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | | | | 0.250 | N/A | 9911603 | 0.470 | N/A | 9911603 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | | | | 3.4 | 1.0 | 9911599 | 17 | 1.0 | 9911599 |
| Calculated TDS | mg/L | | | | 20 | 1.0 | 9911608 | 29 | 1.0 | 9911608 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | | | | <1.0 | 1.0 | 9911599 | <1.0 | 1.0 | 9911599 |
| Cation Sum | me/L | | | | 0.370 | N/A | 9911603 | 0.490 | N/A | 9911603 |
| Hardness (CaCO3) | mg/L | | | | 13 | 1.0 | 9911601 | 17 | 1.0 | 9911601 |
| Ion Balance (% Difference) | % | | | | 19.4 | N/A | 9911602 | 2.08 | N/A | 9911602 |
| Langelier Index (@ 20C) | N/A | | | | -3.02 | | 9911606 | -2.17 | | 9911606 |
| Langelier Index (@ 4C) | N/A | | | | -3.27 | | 9911607 | -2.42 | | 9911607 |
| Nitrate (N) | mg/L | | | | 0.13 | 0.050 | 9911604 | 0.16 | 0.050 | 9911604 |
| Saturation pH (@ 20C) | N/A | | | | 10.2 | | 9911606 | 9.36 | | 9911606 |
| Saturation pH (@ 4C) | N/A | | | | 10.4 | | 9911607 | 9.61 | | 9911607 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | | | | 3.4 | 2.0 | 9913722 | 17 | 2.0 | 9913722 |
| Dissolved Chloride (Cl-) | mg/L | | | | 3.8 | 1.0 | 9912919 | 4.6 | 1.0 | 9913718 |
| Colour | TCU | | | | 47 (1) | 10 | 9912922 | 57 | 10 | 9913908 |
| Dissolved Fluoride (F-) | mg/L | | | | <0.10 | 0.10 | 9913725 | <0.10 | 0.10 | 9913725 |
| Nitrate + Nitrite (N) | mg/L | | | | 0.13 | 0.050 | 9912914 | 0.16 | 0.050 | 9913910 |
| Nitrite (N) | mg/L | | | | <0.010 | 0.010 | 9912911 | <0.010 | 0.010 | 9913911 |
| Nitrogen (Ammonia Nitrogen) | mg/L | | | | <0.050 | 0.050 | 9913607 | 0.051 | 0.050 | 9913600 |
| Total Organic Carbon (C) | mg/L | | | | 6.2 | 0.50 | 9913493 | 6.2 | 0.50 | 9913493 |
| Orthophosphate (P) | mg/L | | | | <0.010 | 0.010 | 9912924 | <0.010 | 0.010 | 9913909 |
| pH | pH | | | | 7.14 | | 9913689 | 7.19 | | 9913689 |
| Reactive Silica (SiO2) | mg/L | | | | 3.4 | 0.50 | 9912923 | 4.0 | 0.50 | 9913907 |
| Total Suspended Solids | mg/L | 34 | 2.0 | 9911798 | 19 | 2.0 | 9911798 | 1.2 | 1.0 | 9911798 |
| Dissolved Sulphate (SO4) | mg/L | | | | 2.9 | 2.0 | 9912921 | <2.0 | 2.0 | 9913906 |
| Turbidity | NTU | | | | 8.6 | 0.10 | 9914873 | 0.48 | 0.10 | 9914873 |
| Conductivity | uS/cm | | | | 38 | 1.0 | 9913719 | 50 | 1.0 | 9913719 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Elevated reporting limit due to sample matrix.



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Bureau Veritas Job #: C541979
Report Date: 2025/04/29

Strum Environmental
Client Project #: 24-10265
Site Location: BOTWOOD
Your P.O. #: 24-10266 TASK 23

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | APXS13 | APXS14 | APXS15 | APXS16 | APXS17 | | APXS19 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/11 | 2025/04/11 | 2025/04/10 | 2025/04/10 | 2025/04/10 | | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | | N/A | | |
| | UNITS | WQM-1 | WQM-2 | WQM-3 | WQM-4 | WQM-5 | QC Batch | WQM-7 | RDL | QC Batch |
| **Metals** | | | | | | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | 9911948 | <0.013 | 0.013 | 9911955 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

| Bureau Veritas ID | | APXS20 | APXS21 | APXS22 | APXS23 | APXS24 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/11 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-8 | WQM-9 | WQM-10 | WQM-11 | WQM-12 | RDL | QC Batch |
| **Metals** | | | | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | <0.013 | <0.013 | 0.013 | 9911955 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | APXS15 | | APXS16 | | APXS17 | | | APXS19 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | | 2025/04/10 | | 2025/04/10 | | | 2025/04/10 | | |
| COC Number | | N/A | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch | WQM-7 | RDL | QC Batch |
| **Metals** | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 46 | 9912925 | 68 | 9912925 | 75 | 5.0 | 9912925 | 44 | 5.0 | 9912925 |
| Total Aluminum (Al) | ug/L | 430 | 9912692 | 140 | 9912691 | 110 | 5.0 | 9912692 | 180 | 5.0 | 9912692 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 9912925 | <1.0 | 9912925 | <1.0 | 1.0 | 9912925 | <1.0 | 1.0 | 9912925 |
| Total Antimony (Sb) | ug/L | <1.0 | 9912692 | <1.0 | 9912691 | <1.0 | 1.0 | 9912692 | <1.0 | 1.0 | 9912692 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 9912925 | <1.0 | 9912925 | <1.0 | 1.0 | 9912925 | <1.0 | 1.0 | 9912925 |
| Total Arsenic (As) | ug/L | 2.3 | 9912692 | <1.0 | 9912691 | <1.0 | 1.0 | 9912692 | 1.0 | 1.0 | 9912692 |
| Dissolved Barium (Ba) | ug/L | 8.5 | 9912925 | 4.8 | 9912925 | 9.2 | 1.0 | 9912925 | 2.6 | 1.0 | 9912925 |
| Total Barium (Ba) | ug/L | 16 | 9912692 | 6.3 | 9912691 | 9.2 | 1.0 | 9912692 | 4.5 | 1.0 | 9912692 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 9912925 | <0.10 | 9912925 | <0.10 | 0.10 | 9912925 | <0.10 | 0.10 | 9912925 |
| Total Beryllium (Be) | ug/L | <0.10 | 9912692 | <0.10 | 9912691 | <0.10 | 0.10 | 9912692 | <0.10 | 0.10 | 9912692 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Bismuth (Bi) | ug/L | <2.0 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | <2.0 | 2.0 | 9912692 |
| Dissolved Boron (B) | ug/L | <50 | 9912925 | <50 | 9912925 | <50 | 50 | 9912925 | <50 | 50 | 9912925 |
| Total Boron (B) | ug/L | <50 | 9912692 | <50 | 9912691 | <50 | 50 | 9912692 | <50 | 50 | 9912692 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 9912925 | <0.010 | 9912925 | <0.010 | 0.010 | 9912925 | <0.010 | 0.010 | 9912925 |
| Total Cadmium (Cd) | ug/L | <0.010 | 9912692 | <0.010 | 9912691 | <0.010 | 0.010 | 9912692 | 0.018 | 0.010 | 9912692 |
| Dissolved Calcium (Ca) | ug/L | 5900 | 9912925 | 3900 | 9912925 | 5100 | 100 | 9912925 | 7700 | 100 | 9912925 |
| Total Calcium (Ca) | ug/L | 6300 | 9912692 | 3800 | 9912691 | 5200 | 100 | 9912692 | 8400 | 100 | 9912692 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 9912925 | <1.0 | 9912925 | <1.0 | 1.0 | 9912925 | <1.0 | 1.0 | 9912925 |
| Total Chromium (Cr) | ug/L | 4.2 | 9912692 | <1.0 | 9912691 | <1.0 | 1.0 | 9912692 | <1.0 | 1.0 | 9912692 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 9912925 | <0.40 | 9912925 | <0.40 | 0.40 | 9912925 | <0.40 | 0.40 | 9912925 |
| Total Cobalt (Co) | ug/L | <0.40 | 9912692 | <0.40 | 9912691 | <0.40 | 0.40 | 9912692 | <0.40 | 0.40 | 9912692 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 9912925 | <0.50 | 9912925 | <0.50 | 0.50 | 9912925 | <0.50 | 0.50 | 9912925 |
| Total Copper (Cu) | ug/L | 0.70 | 9912692 | 0.58 | 9912691 | <0.50 | 0.50 | 9912692 | 1.1 | 0.50 | 9912692 |
| Dissolved Iron (Fe) | ug/L | 63 | 9912925 | 57 | 9912925 | 82 | 50 | 9912925 | 86 | 50 | 9912925 |
| Total Iron (Fe) | ug/L | 960 | 9912692 | 220 | 9912691 | 200 | 50 | 9912692 | 280 | 50 | 9912692 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 9912925 | <0.50 | 9912925 | <0.50 | 0.50 | 9912925 | <0.50 | 0.50 | 9912925 |
| Total Lead (Pb) | ug/L | <0.50 | 9912692 | <0.50 | 9912691 | <0.50 | 0.50 | 9912692 | 0.69 | 0.50 | 9912692 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | | | |
| Total Lithium (Li) | ug/L | <2.0 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | | | |
| Dissolved Magnesium (Mg) | ug/L | 1000 | 9912925 | 780 | 9912925 | 970 | 100 | 9912925 | 870 | 100 | 9912925 |
| Total Magnesium (Mg) | ug/L | 1200 | 9912692 | 770 | 9912691 | 1000 | 100 | 9912692 | 960 | 100 | 9912692 |
| Dissolved Manganese (Mn) | ug/L | <2.0 | 9912925 | 2.7 | 9912925 | 12 | 2.0 | 9912925 | 12 | 2.0 | 9912925 |
| Total Manganese (Mn) | ug/L | 150 | 9912692 | 53 | 9912691 | 48 | 2.0 | 9912692 | 100 | 2.0 | 9912692 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | APXS15 | | APXS16 | | APXS17 | | | APXS19 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | | 2025/04/10 | | 2025/04/10 | | | 2025/04/10 | | |
| COC Number | | N/A | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch | WQM-7 | RDL | QC Batch |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | <2.0 | 2.0 | 9912692 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Nickel (Ni) | ug/L | <2.0 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | <2.0 | 2.0 | 9912692 |
| Dissolved Phosphorus (P) | ug/L | <100 | 9912925 | <100 | 9912925 | <100 | 100 | 9912925 | <100 | 100 | 9912925 |
| Total Phosphorus (P) | ug/L | <100 | 9912692 | <100 | 9912691 | <100 | 100 | 9912692 | <100 | 100 | 9912692 |
| Dissolved Potassium (K) | ug/L | 150 | 9912925 | 130 | 9912925 | 180 | 100 | 9912925 | 250 | 100 | 9912925 |
| Total Potassium (K) | ug/L | 180 | 9912692 | 140 | 9912691 | 160 | 100 | 9912692 | 280 | 100 | 9912692 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 9912925 | <0.50 | 9912925 | <0.50 | 0.50 | 9912925 | <0.50 | 0.50 | 9912925 |
| Total Selenium (Se) | ug/L | <0.50 | 9912692 | <0.50 | 9912691 | <0.50 | 0.50 | 9912692 | <0.50 | 0.50 | 9912692 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 9912925 | <0.10 | 9912925 | <0.10 | 0.10 | 9912925 | <0.10 | 0.10 | 9912925 |
| Total Silver (Ag) | ug/L | <0.10 | 9912692 | <0.10 | 9912691 | <0.10 | 0.10 | 9912692 | <0.10 | 0.10 | 9912692 |
| Dissolved Sodium (Na) | ug/L | 2600 | 9912925 | 2500 | 9912925 | 3300 | 100 | 9912925 | 13000 | 100 | 9912925 |
| Total Sodium (Na) | ug/L | 2700 | 9912692 | 2400 | 9912691 | 3400 | 100 | 9912692 | 13000 | 100 | 9912692 |
| Dissolved Strontium (Sr) | ug/L | 19 | 9912925 | 13 | 9912925 | 17 | 2.0 | 9912925 | 19 | 2.0 | 9912925 |
| Total Strontium (Sr) | ug/L | 21 | 9912692 | 13 | 9912691 | 17 | 2.0 | 9912692 | 20 | 2.0 | 9912692 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 9912925 | <0.10 | 9912925 | <0.10 | 0.10 | 9912925 | <0.10 | 0.10 | 9912925 |
| Total Thallium (Tl) | ug/L | <0.10 | 9912692 | <0.10 | 9912691 | <0.10 | 0.10 | 9912692 | <0.10 | 0.10 | 9912692 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Tin (Sn) | ug/L | <2.0 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | <2.0 | 2.0 | 9912692 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Titanium (Ti) | ug/L | 20 | 9912692 | 2.7 | 9912691 | <2.0 | 2.0 | 9912692 | 3.9 | 2.0 | 9912692 |
| Dissolved Uranium (U) | ug/L | <0.10 | 9912925 | <0.10 | 9912925 | <0.10 | 0.10 | 9912925 | <0.10 | 0.10 | 9912925 |
| Total Uranium (U) | ug/L | <0.10 | 9912692 | <0.10 | 9912691 | <0.10 | 0.10 | 9912692 | <0.10 | 0.10 | 9912692 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 9912925 | <2.0 | 9912925 | <2.0 | 2.0 | 9912925 | <2.0 | 2.0 | 9912925 |
| Total Vanadium (V) | ug/L | 2.1 | 9912692 | <2.0 | 9912691 | <2.0 | 2.0 | 9912692 | <2.0 | 2.0 | 9912692 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 9912925 | <5.0 | 9912925 | <5.0 | 5.0 | 9912925 | <5.0 | 5.0 | 9912925 |
| Total Zinc (Zn) | ug/L | 5.2 | 9912692 | <5.0 | 9912691 | <5.0 | 5.0 | 9912692 | 7.4 | 5.0 | 9912692 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | APXS15 | APXS16 | APXS17 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | 2025/04/10 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.4 | 4.2 | 5.6 | 0.6 | 9915442 |
| Calculated Carbon Dioxide | mg/L | 3 | 8 | 10 | 1 | 9911587 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | APXS13 | APXS14 | APXS15 | APXS16 | APXS17 | APXS19 | APXS20 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/11 | 2025/04/11 | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-1 | WQM-2 | WQM-3 | WQM-4 | WQM-5 | WQM-7 | WQM-8 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9911884 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9911884 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 9911663 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9911884 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 9911884 |
| **Surrogate Recovery (%)** | | | | | | | | | | |
| D10-Anthracene | % | 90 | 93 | 85 | 84 | 92 | 77 | 88 | | 9911884 |
| D14-Terphenyl | % | 91 (1) | 91 (1) | 87 (1) | 86 (1) | 94 (1) | 79 (1) | 89 (1) | | 9911884 |
| D8-Acenaphthylene | % | 84 | 85 | 80 | 80 | 87 | 73 | 83 | | 9911884 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | APXS13 | APXS13 | APXS14 | APXS15 | APXS16 | APXS17 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/11 | 2025/04/11 | 2025/04/11 | 2025/04/10 | 2025/04/10 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-1 | WQM-1 Lab-Dup | WQM-2 | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9911968 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9911968 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9911968 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9911968 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9911968 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9911968 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9911968 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9911968 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | APXS13 | APXS13 | APXS14 | APXS15 | APXS16 | APXS17 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/11 | 2025/04/11 | 2025/04/11 | 2025/04/10 | 2025/04/10 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-1 | WQM-1 Lab-Dup | WQM-2 | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9911968 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9911968 |
| **Surrogate Recovery (%)** | | | | | | | | | |
| 4-Bromofluorobenzene | % | 99 | 98 | 97 | 98 | 99 | 99 | | 9911968 |
| D4-1,2-Dichloroethane | % | 100 | 102 | 100 | 100 | 101 | 100 | | 9911968 |
| D8-Toluene | % | 98 | 98 | 98 | 99 | 99 | 98 | | 9911968 |

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | APXS15 | APXS16 | APXS17 | APXS19 | APXS20 | APXS21 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/10 | 2025/04/10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | WQM-7 | WQM-8 | WQM-9 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9912676 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9912676 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9912676 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9912676 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9912676 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9912682 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 9912682 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9912682 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 9911666 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | NA | NA | NA | N/A | 9912682 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | NA | NA | NA | N/A | 9912682 |
| **Surrogate Recovery (%)** | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 102 | 106 | 112 | 109 | 109 | 112 | | 9912682 |
| n-Dotriacontane - Extractable | % | 105 | 114 | 115 | 119 | 117 | 117 | | 9912682 |
| Isobutylbenzene - Volatile | % | 103 | 102 | 102 | 102 | 100 | 102 | | 9912676 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 9.0°C |
| Package 2 | 8.3°C |
| Package 3 | 8.7°C |
| Package 4 | 8.3°C |

Note: Samples received after hold time Micro and chlorine samples received past hold time.
Note: Sample requiring filtration received preserved - dissolved mercury could not be analyzed.
add on Fluoride per client request. MIB 2025/04/17

Sample APXS13 [WQM-1] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS14 [WQM-2] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS16 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS18 [WQM-6] : Total Suspended Solids: Used all of the sample provided, DL raised.
Elevated reporting limits for trace metals due to sample matrix. ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample APXS20 [WQM-8] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS21 [WQM-9] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS22 [WQM-10] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample APXS24 [WQM-12] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9911798 | RD4 | QC Standard | Total Suspended Solids | 2025/04/23 | | 97 | % | 80 - 120 |
| 9911798 | RD4 | Method Blank | Total Suspended Solids | 2025/04/23 | <1.0 | | mg/L | |
| 9911798 | RD4 | RPD [APXS15-01] | Total Suspended Solids | 2025/04/23 | 6.0 | | % | 20 |
| 9911884 | EPA | Matrix Spike [APXS14-08] | D10-Anthracene | 2025/04/21 | | 83 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/21 | | 84 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/21 | | 79 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/21 | | 83 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/21 | | 91 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/21 | | 84 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/21 | | 90 | % | 50 - 130 |
| | | | Anthracene | 2025/04/21 | | 92 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/04/21 | | 90 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/21 | | 93 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/21 | | 94 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/21 | | 90 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/21 | | 100 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/21 | | 93 | % | 50 - 130 |
| | | | Chrysene | 2025/04/21 | | 93 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/21 | | 86 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/21 | | 90 | % | 50 - 130 |
| | | | Fluorene | 2025/04/21 | | 83 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/21 | | 87 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/21 | | 86 | % | 50 - 130 |
| | | | Perylene | 2025/04/21 | | 92 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/21 | | 95 | % | 50 - 130 |
| | | | Pyrene | 2025/04/21 | | 89 | % | 50 - 130 |
| 9911884 | EPA | Spiked Blank | D10-Anthracene | 2025/04/21 | | 99 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/21 | | 94 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/21 | | 95 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/21 | | 100 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/21 | | 110 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/21 | | 102 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/21 | | 109 | % | 50 - 130 |
| | | | Anthracene | 2025/04/21 | | 110 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/04/21 | | 109 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/21 | | 110 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/21 | | 113 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/21 | | 96 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/21 | | 118 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/21 | | 110 | % | 50 - 130 |
| | | | Chrysene | 2025/04/21 | | 112 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/21 | | 77 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/21 | | 109 | % | 50 - 130 |
| | | | Fluorene | 2025/04/21 | | 100 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/21 | | 99 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/21 | | 105 | % | 50 - 130 |
| | | | Perylene | 2025/04/21 | | 106 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/21 | | 117 | % | 50 - 130 |
| | | | Pyrene | 2025/04/21 | | 108 | % | 50 - 130 |
| 9911884 | EPA | Method Blank | D10-Anthracene | 2025/04/21 | | 101 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/21 | | 102 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/21 | | 95 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/21 | <0.050 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 2-Methylnaphthalene | 2025/04/21 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/04/21 | <0.20 | | ug/L | |
| | | | Perylene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/04/21 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/04/21 | <0.010 | | ug/L | |
| 9911884 | EPA | RPD [APXS23-08] | 1-Methylnaphthalene | 2025/04/21 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/04/21 | NC | | % | 40 |
| | | | Acenaphthene | 2025/04/21 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/04/21 | NC | | % | 40 |
| | | | Anthracene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/04/21 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/04/21 | NC | | % | 40 |
| | | | Chrysene | 2025/04/21 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/04/21 | NC | | % | 40 |
| | | | Fluoranthene | 2025/04/21 | NC | | % | 40 |
| | | | Fluorene | 2025/04/21 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/21 | NC | | % | 40 |
| | | | Naphthalene | 2025/04/21 | NC | | % | 40 |
| | | | Perylene | 2025/04/21 | NC | | % | 40 |
| | | | Phenanthrene | 2025/04/21 | NC | | % | 40 |
| | | | Pyrene | 2025/04/21 | NC | | % | 40 |
| 9911948 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/04/21 | | 101 | % | 80 - 120 |
| 9911948 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/04/21 | | 106 | % | 80 - 120 |
| 9911948 | JEP | Method Blank | Total Mercury (Hg) | 2025/04/21 | <0.013 | | ug/L | |
| 9911948 | JEP | RPD | Total Mercury (Hg) | 2025/04/21 | NC | | % | 20 |
| 9911955 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/04/21 | | 108 | % | 80 - 120 |
| 9911955 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/04/21 | | 101 | % | 80 - 120 |
| 9911955 | JEP | Method Blank | Total Mercury (Hg) | 2025/04/21 | <0.013 | | ug/L | |
| 9911955 | JEP | RPD | Total Mercury (Hg) | 2025/04/21 | NC | | % | 20 |
| 9911968 | A1M | Matrix Spike [APXS14-12] | 4-Bromofluorobenzene | 2025/04/17 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/17 | | 103 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/17 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/04/17 | | 107 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/04/17 | | 110 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,2-Trichloroethane | 2025/04/17 | | 111 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/17 | | 104 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/04/17 | | 109 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/04/17 | | 100 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/04/17 | | 104 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/04/17 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/04/17 | | 104 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/04/17 | | 96 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/04/17 | | 100 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/04/17 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/04/17 | | 107 | % | 70 - 130 |
| | | | Bromoform | 2025/04/17 | | 108 | % | 70 - 130 |
| | | | Bromomethane | 2025/04/17 | | 124 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/04/17 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | Chloroethane | 2025/04/17 | | 106 | % | 60 - 140 |
| | | | Chloroform | 2025/04/17 | | 111 | % | 70 - 130 |
| | | | Chloromethane | 2025/04/17 | | 123 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/17 | | 100 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/17 | | 99 | % | 70 - 130 |
| | | | Styrene | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/04/17 | | 103 | % | 70 - 130 |
| | | | Toluene | 2025/04/17 | | 103 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/17 | | 103 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/04/17 | | 112 | % | 60 - 140 |
| | | | o-Xylene | 2025/04/17 | | 102 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/04/17 | | 99 | % | 70 - 130 |
| 9911968 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/04/17 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/17 | | 97 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/17 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/04/17 | | 109 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/04/17 | | 113 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/04/17 | | 108 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/04/17 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/04/17 | | 111 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/04/17 | | 99 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/04/17 | | 103 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/04/17 | | 107 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/04/17 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/04/17 | | 108 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/04/17 | | 108 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2025/04/17 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2025/04/17 | | 124 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/04/17 | | 104 | % | 70 - 130 |
| | | | Chloroethane | 2025/04/17 | | 107 | % | 60 - 140 |
| | | | Chloroform | 2025/04/17 | | 111 | % | 70 - 130 |
| | | | Chloromethane | 2025/04/17 | | 95 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/04/17 | | 103 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/17 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/17 | | 99 | % | 70 - 130 |
| | | | Styrene | 2025/04/17 | | 108 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/04/17 | | 107 | % | 70 - 130 |
| | | | Toluene | 2025/04/17 | | 107 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/04/17 | | 108 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/17 | | 105 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/04/17 | | 113 | % | 60 - 140 |
| | | | o-Xylene | 2025/04/17 | | 106 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/04/17 | | 104 | % | 70 - 130 |
| 9911968 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/04/17 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/17 | | 96 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/17 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/17 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/04/17 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/04/17 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/04/17 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/17 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/04/17 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/04/17 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/04/17 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/04/17 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/04/17 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/04/17 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/04/17 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/04/17 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/04/17 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Benzene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/04/17 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/04/17 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/04/17 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/04/17 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/04/17 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/04/17 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/04/17 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/04/17 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/17 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/17 | <2.0 | | ug/L | |
| | | | Styrene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Toluene | 2025/04/17 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Trichloroethylene | 2025/04/17 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/17 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/04/17 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/04/17 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/04/17 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/04/17 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/04/17 | <1.0 | | ug/L | |
| 9911968 | A1M | RPD [APXS13-12] | 1,1-Dichloroethane | 2025/04/17 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/04/17 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/04/17 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/04/17 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/17 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/04/17 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/04/17 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/04/17 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/04/17 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/04/17 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/04/17 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/04/17 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/04/17 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/04/17 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/04/17 | NC | | % | 40 |
| | | | Benzene | 2025/04/17 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/04/17 | NC | | % | 40 |
| | | | Bromoform | 2025/04/17 | NC | | % | 40 |
| | | | Bromomethane | 2025/04/17 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/04/17 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/04/17 | NC | | % | 40 |
| | | | Chloroethane | 2025/04/17 | NC | | % | 40 |
| | | | Chloroform | 2025/04/17 | NC | | % | 40 |
| | | | Chloromethane | 2025/04/17 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/04/17 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/17 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/04/17 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/17 | NC | | % | 40 |
| | | | Styrene | 2025/04/17 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/04/17 | NC | | % | 40 |
| | | | Toluene | 2025/04/17 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/04/17 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/17 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/04/17 | NC | | % | 40 |
| | | | o-Xylene | 2025/04/17 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/04/17 | NC | | % | 40 |
| | | | Total Xylenes | 2025/04/17 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/04/17 | NC | | % | 40 |
| 9912676 | THL | Matrix Spike [APXS14-11] | Isobutylbenzene - Volatile | 2025/04/21 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/04/21 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/04/21 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/21 | | 93 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/21 | | 95 | % | 70 - 130 |
| 9912676 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/04/21 | | 103 | % | 70 - 130 |
| | | | Benzene | 2025/04/21 | | 93 | % | 70 - 130 |
| | | | Toluene | 2025/04/21 | | 94 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | 2025/04/21 | | 92 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/21 | | 95 | % | 70 - 130 |
| 9912676 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/04/21 | | 104 | % | 70 - 130 |
| | | | Benzene | 2025/04/21 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/04/21 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/04/21 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/04/21 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/04/21 | <0.090 | | mg/L | |
| 9912676 | THL | RPD [APXS13-11] | Benzene | 2025/04/21 | NC | | % | 40 |
| | | | Toluene | 2025/04/21 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/04/21 | NC | | % | 40 |
| | | | Total Xylenes | 2025/04/21 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/04/21 | NC | | % | 40 |
| 9912682 | ABJ | Matrix Spike [APXS14-07] | Isobutylbenzene - Extractable | 2025/04/21 | | 96 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/21 | | 113 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/21 | | 91 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/04/21 | | 88 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/21 | | 86 | % | 70 - 130 |
| 9912682 | ABJ | Spiked Blank | Isobutylbenzene - Extractable | 2025/04/21 | | 108 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/21 | | 122 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/21 | | 105 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/04/21 | | 101 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/21 | | 95 | % | 70 - 130 |
| 9912682 | ABJ | Method Blank | Isobutylbenzene - Extractable | 2025/04/21 | | 115 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/21 | | 121 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/21 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/04/21 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/04/21 | <0.090 | | mg/L | |
| 9912682 | ABJ | RPD [APXS13-07] | >C10-C16 Hydrocarbons | 2025/04/21 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/04/21 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/21 | NC | | % | 40 |
| 9912691 | MTZ | Matrix Spike [APXS14-03] | Total Aluminum (Al) | 2025/04/23 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/23 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/23 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/23 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/23 | | 97 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/23 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/23 | | 98 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/23 | | 101 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/23 | | 100 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/23 | | 100 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/23 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/23 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/23 | | 106 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/23 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/23 | | 104 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/23 | | 105 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/23 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/23 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/23 | | 96 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/23 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/23 | | 103 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/23 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Silver (Ag) | 2025/04/23 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/23 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/23 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/23 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/23 | | 102 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/23 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/23 | | 107 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/23 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/23 | | 96 | % | 80 - 120 |
| 9912691 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/22 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/22 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/22 | | 97 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/22 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/22 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/22 | | 109 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/22 | | 108 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/22 | | 108 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/22 | | 103 | % | 80 - 120 |
| 9912691 | MTZ | Method Blank | Total Aluminum (Al) | 2025/04/22 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/04/22 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/04/22 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/04/22 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/04/22 | <50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Lead (Pb) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/04/22 | <5.0 | | ug/L | |
| 9912691 | MTZ | RPD | Total Aluminum (Al) | 2025/04/23 | 5.8 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/04/23 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/04/23 | 13 | | % | 20 |
| | | | Total Barium (Ba) | 2025/04/23 | 5.1 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/04/23 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/04/23 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/04/23 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/04/23 | 8.8 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/04/23 | 5.5 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/04/23 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/04/23 | 10 | | % | 20 |
| | | | Total Copper (Cu) | 2025/04/23 | 4.4 | | % | 20 |
| | | | Total Iron (Fe) | 2025/04/23 | 8.3 | | % | 20 |
| | | | Total Lead (Pb) | 2025/04/23 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/04/23 | 8.1 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/04/23 | 7.3 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/04/23 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/04/23 | 12 | | % | 20 |
| | | | Total Phosphorus (P) | 2025/04/23 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/04/23 | 7.0 | | % | 20 |
| | | | Total Selenium (Se) | 2025/04/23 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/04/23 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/04/23 | 7.8 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/04/23 | 7.2 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/04/23 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/04/23 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/04/23 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/04/23 | 7.9 | | % | 20 |
| | | | Total Vanadium (V) | 2025/04/23 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/04/23 | NC | | % | 20 |
| 9912692 | MTZ | Matrix Spike [APXS17-03] | Total Aluminum (Al) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/22 | | 95 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/22 | | 90 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Bismuth (Bi) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/22 | | 92 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/22 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/22 | | 93 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/22 | | 108 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/22 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/22 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/22 | | 98 | % | 80 - 120 |
| 9912692 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/22 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/22 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/22 | | 109 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/22 | | 100 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/22 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/22 | | 99 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Titanium (Ti) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/22 | | 101 | % | 80 - 120 |
| 9912692 | MTZ | Method Blank | Total Aluminum (Al) | 2025/04/22 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/04/22 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/04/22 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/04/22 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/04/22 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/04/22 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/04/22 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/04/22 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/04/22 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/04/22 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/04/22 | <5.0 | | ug/L | |
| 9912692 | MTZ | RPD [APXS13-03] | Total Aluminum (Al) | 2025/04/22 | 7.6 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/04/22 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/04/22 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/04/22 | 2.9 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/04/22 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/04/22 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/04/22 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/04/22 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/04/22 | 0.90 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/04/22 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/04/22 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/04/22 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/04/22 | 6.4 | | % | 20 |
| | | | Total Lead (Pb) | 2025/04/22 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/04/22 | 1.6 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/04/22 | 0.55 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/04/22 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/04/22 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Phosphorus (P) | 2025/04/22 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/04/22 | 2.6 | | % | 20 |
| | | | Total Selenium (Se) | 2025/04/22 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/04/22 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/04/22 | 2.2 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/04/22 | 6.0 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/04/22 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/04/22 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/04/22 | 16 | | % | 20 |
| | | | Total Uranium (U) | 2025/04/22 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/04/22 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/04/22 | NC | | % | 20 |
| 9912911 | MCN | Matrix Spike | Nitrite (N) | 2025/04/21 | | 101 | % | 80 - 120 |
| 9912911 | MCN | Spiked Blank | Nitrite (N) | 2025/04/21 | | 101 | % | 80 - 120 |
| 9912911 | MCN | Method Blank | Nitrite (N) | 2025/04/21 | <0.010 | | mg/L | |
| 9912911 | MCN | RPD | Nitrite (N) | 2025/04/21 | NC | | % | 20 |
| 9912914 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/04/21 | | 94 | % | 80 - 120 |
| 9912914 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/04/21 | | 100 | % | 80 - 120 |
| 9912914 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/04/21 | <0.050 | | mg/L | |
| 9912914 | MCN | RPD | Nitrate + Nitrite (N) | 2025/04/21 | 3.9 | | % | 20 |
| 9912919 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/04/21 | | 96 | % | 80 - 120 |
| 9912919 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/04/21 | | 99 | % | 80 - 120 |
| 9912919 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/04/21 | <1.0 | | mg/L | |
| 9912919 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/04/21 | 2.1 | | % | 20 |
| 9912921 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/04/21 | | 99 | % | 80 - 120 |
| 9912921 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/04/21 | | 102 | % | 80 - 120 |
| 9912921 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/04/21 | <2.0 | | mg/L | |
| 9912921 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/04/21 | NC | | % | 20 |
| 9912922 | MCN | Spiked Blank | Colour | 2025/04/22 | | 104 | % | 80 - 120 |
| 9912922 | MCN | Method Blank | Colour | 2025/04/22 | <5.0 | | TCU | |
| 9912922 | MCN | RPD | Colour | 2025/04/22 | 19 | | % | 20 |
| 9912923 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/04/21 | | 100 | % | 80 - 120 |
| 9912923 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/04/21 | | 96 | % | 80 - 120 |
| 9912923 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/04/21 | <0.50 | | mg/L | |
| 9912923 | MCN | RPD | Reactive Silica (SiO2) | 2025/04/21 | 2.1 | | % | 20 |
| 9912924 | MCN | Matrix Spike | Orthophosphate (P) | 2025/04/22 | | NC | % | 80 - 120 |
| 9912924 | MCN | Spiked Blank | Orthophosphate (P) | 2025/04/22 | | 102 | % | 80 - 120 |
| 9912924 | MCN | Method Blank | Orthophosphate (P) | 2025/04/22 | <0.010 | | mg/L | |
| 9912924 | MCN | RPD | Orthophosphate (P) | 2025/04/22 | 2.0 | | % | 20 |
| 9912925 | MOA | Matrix Spike [APXS23-02] | Dissolved Aluminum (Al) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/04/22 | | 94 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/04/22 | | 108 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/04/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/04/22 | | 110 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/04/22 | | 106 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Lithium (Li) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/04/22 | | 111 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/04/22 | | 106 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/04/22 | | 110 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/04/22 | | 108 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/04/22 | | 76 (2) | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/04/22 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/04/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/04/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/04/22 | | 104 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/04/22 | | 114 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/04/22 | | 107 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/04/22 | | 102 | % | 80 - 120 |
| 9912925 | MOA | Spiked Blank | Dissolved Aluminum (Al) | 2025/04/21 | | 108 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/04/21 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/04/21 | | 103 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/04/21 | | 102 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/04/21 | | 100 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/04/21 | | 95 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/04/21 | | 92 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/04/21 | | 104 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/04/21 | | 108 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/04/21 | | 103 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/04/21 | | 101 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/04/21 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/04/21 | | 106 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/04/21 | | 102 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/04/21 | | 104 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/04/21 | | 110 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/04/21 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/21 | | 99 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/04/21 | | 102 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/04/21 | | 110 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/04/21 | | 104 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/04/21 | | 104 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/04/21 | | 80 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/04/21 | | 106 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/04/21 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/04/21 | | 96 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/04/21 | | 95 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/04/21 | | 104 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/04/21 | | 109 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/04/21 | | 105 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/04/21 | | 100 | % | 80 - 120 |
| 9912925 | MOA | Method Blank | Dissolved Aluminum (Al) | 2025/04/21 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/04/21 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/04/21 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/04/21 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/04/21 | <0.10 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Bismuth (Bi) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/04/21 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/04/21 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/04/21 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/04/21 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/04/21 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/04/21 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/04/21 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/04/21 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/04/21 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/04/21 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/04/21 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/04/21 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/04/21 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/04/21 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/04/21 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/04/21 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/04/21 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/04/21 | <5.0 | | ug/L | |
| 9912925 | MOA | RPD [APXS23-02] | Dissolved Aluminum (Al) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/04/23 | 0.75 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/04/23 | 15 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/04/23 | 1.4 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/04/23 | 1.3 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/04/23 | 1.5 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/04/23 | 2.7 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/04/23 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Uranium (U) | 2025/04/23 | 6.9 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/04/23 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/04/23 | NC | | % | 20 |
| 9913493 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/04/22 | | 101 | % | 85 - 115 |
| 9913493 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/04/22 | | 96 | % | 80 - 120 |
| 9913493 | SSI | Method Blank | Total Organic Carbon (C) | 2025/04/22 | <0.50 | | mg/L | |
| 9913505 | SSI | Matrix Spike [APXS22-04] | Total Organic Carbon (C) | 2025/04/22 | | 98 | % | 85 - 115 |
| 9913505 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/04/22 | | 95 | % | 80 - 120 |
| 9913505 | SSI | Method Blank | Total Organic Carbon (C) | 2025/04/22 | <0.50 | | mg/L | |
| 9913505 | SSI | RPD [APXS22-04] | Total Organic Carbon (C) | 2025/04/22 | 1.3 | | % | 15 |
| 9913600 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 95 | % | 80 - 120 |
| 9913600 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 102 | % | 80 - 120 |
| 9913600 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | <0.050 | | mg/L | |
| 9913600 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | NC | | % | 20 |
| 9913607 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 98 | % | 80 - 120 |
| 9913607 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 99 | % | 80 - 120 |
| 9913607 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | <0.050 | | mg/L | |
| 9913607 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | 0.89 | | % | 20 |
| 9913617 | MCN | Matrix Spike [APXS22-10] | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 96 | % | 80 - 120 |
| 9913617 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | | 102 | % | 80 - 120 |
| 9913617 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | <0.050 | | mg/L | |
| 9913617 | MCN | RPD [APXS22-10] | Nitrogen (Ammonia Nitrogen) | 2025/04/21 | 12 | | % | 20 |
| 9913689 | M2C | Spiked Blank | pH | 2025/04/22 | | 100 | % | 97 - 103 |
| 9913689 | M2C | RPD | pH | 2025/04/22 | 0.36 | | % | N/A |
| 9913718 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/04/23 | | NC | % | 80 - 120 |
| 9913718 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/04/22 | | 91 | % | 80 - 120 |
| 9913718 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/04/22 | <1.0 | | mg/L | |
| 9913718 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/04/23 | 3.0 | | % | 20 |
| 9913719 | M2C | Spiked Blank | Conductivity | 2025/04/22 | | 96 | % | 80 - 120 |
| 9913719 | M2C | Method Blank | Conductivity | 2025/04/22 | <1.0 | | uS/cm | |
| 9913719 | M2C | RPD | Conductivity | 2025/04/22 | 0.51 | | % | 10 |
| 9913722 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/04/22 | | 97 | % | 80 - 120 |
| 9913722 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/04/22 | <2.0 | | mg/L | |
| 9913722 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/04/22 | NC | | % | 20 |
| 9913724 | EMT | Matrix Spike [APXS23-02] | Nitrite (N) | 2025/04/23 | | 99 | % | 80 - 120 |
| 9913724 | EMT | Spiked Blank | Nitrite (N) | 2025/04/23 | | 98 | % | 80 - 120 |
| 9913724 | EMT | Method Blank | Nitrite (N) | 2025/04/23 | <0.010 | | mg/L | |
| 9913724 | EMT | RPD [APXS23-02] | Nitrite (N) | 2025/04/23 | NC | | % | 20 |
| 9913725 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/04/22 | | 92 | % | 80 - 120 |
| 9913725 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/04/22 | | 95 | % | 80 - 120 |
| 9913725 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/04/22 | <0.10 | | mg/L | |
| 9913725 | M2C | RPD | Dissolved Fluoride (F-) | 2025/04/22 | NC | | % | 20 |
| 9913906 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/04/22 | | NC | % | 80 - 120 |
| 9913906 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/04/22 | | 94 | % | 80 - 120 |
| 9913906 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/04/22 | <2.0 | | mg/L | |
| 9913906 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/04/23 | 0.56 | | % | 20 |
| 9913907 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/04/22 | | 89 | % | 80 - 120 |
| 9913907 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/04/22 | | 96 | % | 80 - 120 |
| 9913907 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/04/22 | <0.50 | | mg/L | |
| 9913907 | MCN | RPD | Reactive Silica (SiO2) | 2025/04/22 | 6.8 | | % | 20 |
| 9913908 | MCN | Spiked Blank | Colour | 2025/04/23 | | 105 | % | 80 - 120 |
| 9913908 | MCN | Method Blank | Colour | 2025/04/23 | <5.0 | | TCU | |
| 9913908 | MCN | RPD | Colour | 2025/04/23 | 2.4 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9913909 | MCN | Matrix Spike | Orthophosphate (P) | 2025/04/23 | | 97 | % | 80 - 120 |
| 9913909 | MCN | Spiked Blank | Orthophosphate (P) | 2025/04/23 | | 97 | % | 80 - 120 |
| 9913909 | MCN | Method Blank | Orthophosphate (P) | 2025/04/23 | <0.010 | | mg/L | |
| 9913909 | MCN | RPD | Orthophosphate (P) | 2025/04/23 | NC | | % | 20 |
| 9913910 | EMT | Matrix Spike | Nitrate + Nitrite (N) | 2025/04/23 | | 84 | % | 80 - 120 |
| 9913910 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/04/23 | | 101 | % | 80 - 120 |
| 9913910 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/04/23 | <0.050 | | mg/L | |
| 9913910 | EMT | RPD | Nitrate + Nitrite (N) | 2025/04/23 | 3.0 | | % | 20 |
| 9913911 | EMT | Matrix Spike | Nitrite (N) | 2025/04/23 | | 102 | % | 80 - 120 |
| 9913911 | EMT | Spiked Blank | Nitrite (N) | 2025/04/23 | | 102 | % | 80 - 120 |
| 9913911 | EMT | Method Blank | Nitrite (N) | 2025/04/23 | <0.010 | | mg/L | |
| 9913911 | EMT | RPD | Nitrite (N) | 2025/04/23 | NC | | % | 20 |
| 9913920 | EMT | Matrix Spike [APXS23-02] | Nitrate + Nitrite (N) | 2025/04/23 | | 98 | % | 80 - 120 |
| 9913920 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/04/23 | | 100 | % | 80 - 120 |
| 9913920 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/04/23 | <0.050 | | mg/L | |
| 9913920 | EMT | RPD [APXS23-02] | Nitrate + Nitrite (N) | 2025/04/23 | NC | | % | 20 |
| 9913922 | MCN | Matrix Spike [APXS23-02] | Orthophosphate (P) | 2025/04/23 | | 98 | % | 80 - 120 |
| 9913922 | MCN | Spiked Blank | Orthophosphate (P) | 2025/04/23 | | 99 | % | 80 - 120 |
| 9913922 | MCN | Method Blank | Orthophosphate (P) | 2025/04/23 | <0.010 | | mg/L | |
| 9913922 | MCN | RPD [APXS23-02] | Orthophosphate (P) | 2025/04/23 | NC | | % | 20 |
| 9913923 | MCN | Spiked Blank | Colour | 2025/04/23 | | 109 | % | 80 - 120 |
| 9913923 | MCN | Method Blank | Colour | 2025/04/23 | <5.0 | | TCU | |
| 9913923 | MCN | RPD [APXS23-02] | Colour | 2025/04/23 | NC | | % | 20 |
| 9913924 | MCN | Matrix Spike [APXS23-02] | Reactive Silica (SiO2) | 2025/04/22 | | NC | % | 80 - 120 |
| 9913924 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/04/22 | | 96 | % | 80 - 120 |
| 9913924 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/04/22 | <0.50 | | mg/L | |
| 9913924 | MCN | RPD [APXS23-02] | Reactive Silica (SiO2) | 2025/04/22 | 0.45 | | % | 20 |
| 9913925 | MCN | Matrix Spike [APXS23-02] | Dissolved Sulphate (SO4) | 2025/04/22 | | 91 | % | 80 - 120 |
| 9913925 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/04/22 | | 95 | % | 80 - 120 |
| 9913925 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/04/22 | <2.0 | | mg/L | |
| 9913925 | MCN | RPD [APXS23-02] | Dissolved Sulphate (SO4) | 2025/04/22 | 18 | | % | 20 |
| 9913926 | MCN | Matrix Spike [APXS23-02] | Dissolved Chloride (Cl-) | 2025/04/22 | | 90 | % | 80 - 120 |
| 9913926 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/04/22 | | 91 | % | 80 - 120 |
| 9913926 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/04/22 | <1.0 | | mg/L | |
| 9913926 | MCN | RPD [APXS23-02] | Dissolved Chloride (Cl-) | 2025/04/22 | 3.0 | | % | 20 |
| 9914622 | M2C | Spiked Blank | pH | 2025/04/23 | | 100 | % | 97 - 103 |
| 9914622 | M2C | RPD | pH | 2025/04/23 | 0.13 | | % | N/A |
| 9914627 | M2C | Spiked Blank | Conductivity | 2025/04/23 | | 97 | % | 80 - 120 |
| 9914627 | M2C | Method Blank | Conductivity | 2025/04/23 | <1.0 | | uS/cm | |
| 9914627 | M2C | RPD | Conductivity | 2025/04/23 | 1.2 | | % | 10 |
| 9914632 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/04/23 | | 96 | % | 80 - 120 |
| 9914632 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/04/23 | <2.0 | | mg/L | |
| 9914632 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/04/23 | 2.0 | | % | 20 |
| 9914638 | M2C | Matrix Spike [APXS23-02] | Dissolved Fluoride (F-) | 2025/04/23 | | 93 | % | 80 - 120 |
| 9914638 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/04/23 | | 97 | % | 80 - 120 |
| 9914638 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/04/23 | <0.10 | | mg/L | |
| 9914638 | M2C | RPD | Dissolved Fluoride (F-) | 2025/04/23 | NC | | % | 20 |
| 9914868 | M2C | QC Standard | Turbidity | 2025/04/23 | | 111 | % | 80 - 120 |
| 9914868 | M2C | Spiked Blank | Turbidity | 2025/04/23 | | 104 | % | 80 - 120 |
| 9914868 | M2C | Method Blank | Turbidity | 2025/04/23 | <0.10 | | NTU | |
| 9914868 | M2C | RPD | Turbidity | 2025/04/23 | 11 | | % | 20 |
| 9914873 | M2C | QC Standard | Turbidity | 2025/04/23 | | 113 | % | 80 - 120 |
| 9914873 | M2C | Spiked Blank | Turbidity | 2025/04/23 | | 103 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9914873 | M2C | Method Blank | Turbidity | 2025/04/23 | <0.10 | | NTU | |
| 9914873 | M2C | RPD [APXS23-02] | Turbidity | 2025/04/23 | NC | | % | 20 |
| 9915442 | VTH | Method Blank | Carbon Dioxide | 2025/04/24 | <0.6 | | L/m3 | |
| 9915442 | VTH | RPD | Carbon Dioxide | 2025/04/24 | 15 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.

(2) Recovery is within QC acceptance limits. < 10 % of compounds in multi-component analysis in violation.



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## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Janah Rhyno, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/01**
Report #: R8530134
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C544045**
**Received: 2025/04/22, 09:15**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/04/29 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/04/29 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/04/28 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/04/28 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/04/29 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/04/29 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/04/29 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/04/23 | 2025/04/23 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/04/29 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/04/22 | | |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/04/24 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/04/25 | ATL SOP 00048 | Auto Calc |
| Mercury - Total (CVAA,LL) | 3 | 2025/04/24 | 2025/04/24 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/04/28 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/04/23 | 2025/04/24 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/04/24 | 2025/04/24 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/04/29 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/04/29 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/04/23 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/04/29 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/04/29 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/04/29 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 1 | 2025/04/23 | 2025/04/25 | ATL SOP 00103 | EPA 8270E R6 m |
| PAH in Water by GC/MS (SIM) | 2 | 2025/04/23 | 2025/04/26 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/04/29 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/04/29 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/04/29 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/04/29 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/04/29 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/04/28 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/04/29 | N/A | Auto Calc. |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/01**
Report #: R8530134
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C544045**
**Received: 2025/04/22, 09:15**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/04/24 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/04/24 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 1 | 2025/04/22 | 2025/04/23 | ATL SOP 00007 | SM 24 2540D m |
| Total Suspended Solids | 2 | 2025/04/23 | 2025/04/25 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/04/28 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/04/25 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/04/23 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/01**
Report #: R8530134
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C544045**
**Received: 2025/04/22, 09:15**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C544045
Report Date: 2025/05/01

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQCD81 | | | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | | | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | |
| Anion Sum | me/L | 0.160 | N/A | 9913513 | 0.270 | 0.280 | N/A | 9913513 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 4.8 | 1.0 | 9913509 | 8.7 | 9.3 | 1.0 | 9913509 |
| Calculated TDS | mg/L | 14 | 1.0 | 9913518 | 19 | 21 | 1.0 | 9913518 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9913509 | <1.0 | <1.0 | 1.0 | 9913509 |
| Cation Sum | me/L | 0.280 | N/A | 9913513 | 0.380 | 0.410 | N/A | 9913513 |
| Hardness (CaCO3) | mg/L | 9.1 | 1.0 | 9913511 | 13 | 15 | 1.0 | 9913511 |
| Ion Balance (% Difference) | % | 27.3 | N/A | 9913512 | 16.9 | 18.8 | N/A | 9913512 |
| Langelier Index (@ 20C) | N/A | -3.43 | | 9913516 | -2.73 | -2.50 | | 9913516 |
| Langelier Index (@ 4C) | N/A | -3.68 | | 9913517 | -2.98 | -2.75 | | 9913517 |
| Nitrate (N) | mg/L | 0.13 | 0.050 | 9913514 | 0.15 | 0.16 | 0.050 | 9913514 |
| Saturation pH (@ 20C) | N/A | 10.2 | | 9913516 | 9.76 | 9.66 | | 9913516 |
| Saturation pH (@ 4C) | N/A | 10.4 | | 9913517 | 10.0 | 9.91 | | 9913517 |
| **Inorganics** | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 4.8 | 2.0 | 9917844 | 8.7 | 9.3 | 2.0 | 9917844 |
| Dissolved Chloride (Cl-) | mg/L | 2.1 | 1.0 | 9918080 | 3.0 | 2.8 | 1.0 | 9918080 |
| Colour | TCU | 71 | 25 | 9918084 | 76 | 58 | 25 | 9918084 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9917845 | <0.10 | <0.10 | 0.10 | 9917845 |
| Nitrate + Nitrite (N) | mg/L | 0.13 | 0.050 | 9918086 | 0.15 | 0.16 | 0.050 | 9918086 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9918087 | <0.010 | <0.010 | 0.010 | 9918087 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9914435 | 0.057 | <0.050 | 0.050 | 9914435 |
| Total Organic Carbon (C) | mg/L | 8.8 | 0.50 | 9915396 | 8.0 | 6.0 | 0.50 | 9915400 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9918085 | <0.010 | <0.010 | 0.010 | 9918085 |
| pH | pH | 6.73 | | 9917837 | 7.03 | 7.16 | | 9917837 |
| Reactive Silica (SiO2) | mg/L | 2.9 | 0.50 | 9918083 | 2.9 | 3.5 | 0.50 | 9918083 |
| Total Suspended Solids | mg/L | 7.2 | 2.0 | 9913903 | 1.2 | 1.0 | 1.0 | 9914384 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9918082 | <2.0 | <2.0 | 2.0 | 9918082 |
| Turbidity | NTU | 2.1 | 0.10 | 9917739 | 0.87 | 0.93 | 0.10 | 9917739 |
| Conductivity | uS/cm | 28 | 1.0 | 9917839 | 39 | 43 | 1.0 | 9917839 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C544045
Report Date: 2025/05/01

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| **Bureau Veritas ID** | | AQCD81 | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/04/16 | 2025/04/16 | 2025/04/16 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9914729 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQCD81 | | AQCD82 | | AQCD83 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | | 2025/04/16 | | 2025/04/16 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 100 | 9917277 | 86 | 9917277 | 72 | 5.0 | 9917277 |
| Total Aluminum (Al) | ug/L | 120 | 9914373 | 100 | 9915253 | 93 | 5.0 | 9914373 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 9917277 | <1.0 | 9917277 | <1.0 | 1.0 | 9917277 |
| Total Antimony (Sb) | ug/L | <1.0 | 9914373 | <1.0 | 9915253 | <1.0 | 1.0 | 9914373 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 9917277 | <1.0 | 9917277 | <1.0 | 1.0 | 9917277 |
| Total Arsenic (As) | ug/L | <1.0 | 9914373 | <1.0 | 9915253 | <1.0 | 1.0 | 9914373 |
| Dissolved Barium (Ba) | ug/L | 4.1 | 9917277 | 5.2 | 9917277 | 5.4 | 1.0 | 9917277 |
| Total Barium (Ba) | ug/L | 4.0 | 9914373 | 4.9 | 9915253 | 5.8 | 1.0 | 9914373 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 9917277 | <0.10 | 9917277 | <0.10 | 0.10 | 9917277 |
| Total Beryllium (Be) | ug/L | <0.10 | 9914373 | <0.10 | 9915253 | <0.10 | 0.10 | 9914373 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Bismuth (Bi) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Boron (B) | ug/L | <50 | 9917277 | <50 | 9917277 | <50 | 50 | 9917277 |
| Total Boron (B) | ug/L | <50 | 9914373 | <50 | 9915253 | <50 | 50 | 9914373 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 9917277 | <0.010 | 9917277 | <0.010 | 0.010 | 9917277 |
| Total Cadmium (Cd) | ug/L | <0.010 | 9914373 | <0.010 | 9915253 | <0.010 | 0.010 | 9914373 |
| Dissolved Calcium (Ca) | ug/L | 2700 | 9917277 | 3800 | 9917277 | 4500 | 100 | 9917277 |
| Total Calcium (Ca) | ug/L | 2700 | 9914373 | 3600 | 9915253 | 4400 | 100 | 9914373 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 9917277 | <1.0 | 9917277 | <1.0 | 1.0 | 9917277 |
| Total Chromium (Cr) | ug/L | <1.0 | 9914373 | <1.0 | 9915253 | <1.0 | 1.0 | 9914373 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 9917277 | <0.40 | 9917277 | <0.40 | 0.40 | 9917277 |
| Total Cobalt (Co) | ug/L | <0.40 | 9914373 | <0.40 | 9915253 | <0.40 | 0.40 | 9914373 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 9917277 | <0.50 | 9917277 | <0.50 | 0.50 | 9917277 |
| Total Copper (Cu) | ug/L | <0.50 | 9914373 | <0.50 | 9915253 | <0.50 | 0.50 | 9914373 |
| Dissolved Iron (Fe) | ug/L | 81 | 9917277 | 77 | 9917277 | 71 | 50 | 9917277 |
| Total Iron (Fe) | ug/L | 140 | 9914373 | 150 | 9915253 | 150 | 50 | 9914373 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 9917277 | <0.50 | 9917277 | <0.50 | 0.50 | 9917277 |
| Total Lead (Pb) | ug/L | <0.50 | 9914373 | <0.50 | 9915253 | <0.50 | 0.50 | 9914373 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Lithium (Li) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Magnesium (Mg) | ug/L | 560 | 9917277 | 790 | 9917277 | 870 | 100 | 9917277 |
| Total Magnesium (Mg) | ug/L | 590 | 9914373 | 770 | 9915253 | 930 | 100 | 9914373 |
| Dissolved Manganese (Mn) | ug/L | <2.0 | 9917277 | 9.0 | 9917277 | 16 | 2.0 | 9917277 |
| Total Manganese (Mn) | ug/L | 14 | 9914373 | 23 | 9915253 | 30 | 2.0 | 9914373 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQCD81 | | AQCD82 | | AQCD83 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | | 2025/04/16 | | 2025/04/16 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Nickel (Ni) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Phosphorus (P) | ug/L | <100 | 9917277 | <100 | 9917277 | <100 | 100 | 9917277 |
| Total Phosphorus (P) | ug/L | <100 | 9914373 | <100 | 9915253 | <100 | 100 | 9914373 |
| Dissolved Potassium (K) | ug/L | 150 | 9917277 | 200 | 9917277 | 150 | 100 | 9917277 |
| Total Potassium (K) | ug/L | 170 | 9914373 | 200 | 9915253 | 160 | 100 | 9914373 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 9917277 | <0.50 | 9917277 | <0.50 | 0.50 | 9917277 |
| Total Selenium (Se) | ug/L | <0.50 | 9914373 | <0.50 | 9915253 | <0.50 | 0.50 | 9914373 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 9917277 | <0.10 | 9917277 | <0.10 | 0.10 | 9917277 |
| Total Silver (Ag) | ug/L | <0.10 | 9914373 | <0.10 | 9915253 | <0.10 | 0.10 | 9914373 |
| Dissolved Sodium (Na) | ug/L | 2200 | 9917277 | 2600 | 9917277 | 2600 | 100 | 9917277 |
| Total Sodium (Na) | ug/L | 2200 | 9914373 | 2500 | 9915253 | 2700 | 100 | 9914373 |
| Dissolved Strontium (Sr) | ug/L | 9.7 | 9917277 | 13 | 9917277 | 15 | 2.0 | 9917277 |
| Total Strontium (Sr) | ug/L | 9.9 | 9914373 | 12 | 9915253 | 15 | 2.0 | 9914373 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 9917277 | <0.10 | 9917277 | <0.10 | 0.10 | 9917277 |
| Total Thallium (Tl) | ug/L | <0.10 | 9914373 | <0.10 | 9915253 | <0.10 | 0.10 | 9914373 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Tin (Sn) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Titanium (Ti) | ug/L | <2.0 | 9914373 | 2.1 | 9915253 | 2.1 | 2.0 | 9914373 |
| Dissolved Uranium (U) | ug/L | <0.10 | 9917277 | <0.10 | 9917277 | <0.10 | 0.10 | 9917277 |
| Total Uranium (U) | ug/L | <0.10 | 9914373 | <0.10 | 9915253 | <0.10 | 0.10 | 9914373 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 9917277 | <2.0 | 9917277 | <2.0 | 2.0 | 9917277 |
| Total Vanadium (V) | ug/L | <2.0 | 9914373 | <2.0 | 9915253 | <2.0 | 2.0 | 9914373 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 9917277 | <5.0 | 9917277 | 5.1 | 5.0 | 9917277 |
| Total Zinc (Zn) | ug/L | <5.0 | 9914373 | <5.0 | 9915253 | <5.0 | 5.0 | 9914373 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C544045
Report Date: 2025/05/01

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AQCD81 | | | AQCD81 | | | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | | | 2025/04/16 | | | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 2.5 | 0.6 | 9918564 | 2.4 | 0.6 | 9918564 | 3.1 | 3.7 | 0.6 | 9918564 |
| Calculated Carbon Dioxide | mg/L | 5 | 1 | 9913827 | | | | 6 | 7 | 1 | 9913827 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AQCD81 | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9914775 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9914775 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9913768 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9914775 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9914775 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 87 | 87 | 81 | | 9914775 |
| D14-Terphenyl | % | 90 | 90 | 86 | | 9914775 |
| D8-Acenaphthylene | % | 86 | 85 | 80 | | 9914775 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQCD81 | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9915707 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9915707 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9915707 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9915707 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9915707 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9915707 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9915707 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9915707 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQCD81 | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9915707 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9915707 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 99 | 99 | 99 | | 9915707 |
| D4-1,2-Dichloroethane | % | 101 | 103 | 102 | | 9915707 |
| D8-Toluene | % | 99 | 99 | 99 | | 9915707 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AQCD81 | AQCD82 | AQCD83 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/16 | 2025/04/16 | 2025/04/16 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9914321 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9914321 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9914321 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9914321 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9914321 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9914388 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9914388 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9914388 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9913598 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9914388 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9914388 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 88 | 93 | 84 | | 9914388 |
| n-Dotriacontane - Extractable | % | 91 | 94 | 89 | | 9914388 |
| Isobutylbenzene - Volatile | % | 100 | 100 | 100 | | 9914321 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 2.3°C |

Note: C of C information incomplete - Date sampled wasn't mentioned on COC or labels. Samples were collected April 16, 2025 (per client email).
Note: Bottles in shipment, but bottles not listed on C of C - Two mercury bottles were provided for each sample. Both bottles look same (no marks "filtered" or "preserved" on labels or caps). Only total mercury was required on COC.
-Amber unpreserved vials were received for each sample but not listed on COC. Vials held.

Sample AQCD81 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQCD82 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQCD83 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9913903 | ISM | QC Standard | Total Suspended Solids | 2025/04/23 | | 100 | % | 80 - 120 |
| 9913903 | ISM | Method Blank | Total Suspended Solids | 2025/04/23 | <1.0 | | mg/L | |
| 9913903 | ISM | RPD | Total Suspended Solids | 2025/04/23 | 0.16 | | % | 20 |
| 9914321 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/04/23 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/04/23 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/04/23 | | 96 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/23 | | 97 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/23 | | 99 | % | 70 - 130 |
| 9914321 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/04/23 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/04/23 | | 99 | % | 70 - 130 |
| | | | Toluene | 2025/04/23 | | 101 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/23 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/23 | | 102 | % | 70 - 130 |
| 9914321 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/04/23 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/04/23 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/04/23 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/04/23 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/04/23 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/04/23 | <0.090 | | mg/L | |
| 9914321 | THL | RPD | Benzene | 2025/04/23 | NC | | % | 40 |
| | | | Toluene | 2025/04/23 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/04/23 | NC | | % | 40 |
| | | | Total Xylenes | 2025/04/23 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/04/23 | NC | | % | 40 |
| 9914373 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/24 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/24 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/24 | | 95 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/24 | | 107 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/24 | | 103 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Uranium (U) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/24 | | 102 | % | 80 - 120 |
| 9914373 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/24 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/24 | | 106 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/24 | | 106 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/24 | | 102 | % | 80 - 120 |
| 9914373 | MTZ | Method Blank | Total Aluminum (Al) | 2025/04/24 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/04/24 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/04/24 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/04/24 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/04/24 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/04/24 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/04/24 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/04/24 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/04/24 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/04/24 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/04/24 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/04/24 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/04/24 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/04/24 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/04/24 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Nickel (Ni) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/04/24 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/04/24 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/04/24 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/04/24 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/04/24 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/04/24 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/04/24 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/04/24 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/04/24 | <5.0 | | ug/L | |
| 9914373 | MTZ | RPD | Total Aluminum (Al) | 2025/04/24 | 6.3 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/04/24 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/04/24 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/04/24 | 4.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/04/24 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/04/24 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/04/24 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/04/24 | 6.6 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/04/24 | 4.9 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/04/24 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/04/24 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/04/24 | 4.7 | | % | 20 |
| | | | Total Iron (Fe) | 2025/04/24 | 3.7 | | % | 20 |
| | | | Total Lead (Pb) | 2025/04/24 | NC | | % | 20 |
| | | | Total Lithium (Li) | 2025/04/24 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/04/24 | 4.8 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/04/24 | 5.2 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/04/24 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/04/24 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/04/24 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/04/24 | 5.5 | | % | 20 |
| | | | Total Selenium (Se) | 2025/04/24 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/04/24 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/04/24 | 4.1 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/04/24 | 6.0 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/04/24 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/04/24 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/04/24 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/04/24 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/04/24 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/04/24 | NC | | % | 20 |
| 9914384 | ISM | QC Standard | Total Suspended Solids | 2025/04/25 | | 97 | % | 80 - 120 |
| 9914384 | ISM | Method Blank | Total Suspended Solids | 2025/04/25 | <1.0 | | mg/L | |
| 9914384 | ISM | RPD | Total Suspended Solids | 2025/04/25 | 7.5 | | % | 20 |
| 9914388 | ABJ | Matrix Spike | Isobutylbenzene - Extractable | 2025/04/23 | | 90 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/23 | | 102 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/23 | | 86 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/04/23 | | 93 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/23 | | 93 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9914388 | ABJ | Spiked Blank | Isobutylbenzene - Extractable | 2025/04/23 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/23 | | 100 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/23 | | 100 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/04/23 | | 106 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/23 | | 103 | % | 70 - 130 |
| 9914388 | ABJ | Method Blank | Isobutylbenzene - Extractable | 2025/04/23 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/23 | | 101 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/23 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/04/23 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/04/23 | <0.090 | | mg/L | |
| 9914388 | ABJ | RPD | >C10-C16 Hydrocarbons | 2025/04/23 | 2.2 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/04/23 | 13 | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/23 | 17 | | % | 40 |
| 9914435 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/04/23 | | 100 | % | 80 - 120 |
| 9914435 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/23 | | 105 | % | 80 - 120 |
| 9914435 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/23 | <0.050 | | mg/L | |
| 9914435 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/04/23 | NC | | % | 20 |
| 9914729 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/04/24 | | 101 | % | 80 - 120 |
| 9914729 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/04/24 | | 104 | % | 80 - 120 |
| 9914729 | JEP | Method Blank | Total Mercury (Hg) | 2025/04/24 | <0.013 | | ug/L | |
| 9914729 | JEP | RPD | Total Mercury (Hg) | 2025/04/24 | NC | | % | 20 |
| 9914775 | EPA | Matrix Spike [AQCD81-08] | D10-Anthracene | 2025/04/25 | | 82 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/25 | | 86 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/25 | | 83 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/25 | | 86 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/25 | | 96 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/25 | | 86 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/25 | | 94 | % | 50 - 130 |
| | | | Anthracene | 2025/04/25 | | 107 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/04/25 | | 101 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/25 | | 100 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/25 | | 100 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/25 | | 92 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/25 | | 103 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/25 | | 97 | % | 50 - 130 |
| | | | Chrysene | 2025/04/25 | | 98 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/25 | | 94 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/25 | | 100 | % | 50 - 130 |
| | | | Fluorene | 2025/04/25 | | 89 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/25 | | 96 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/25 | | 88 | % | 50 - 130 |
| | | | Perylene | 2025/04/25 | | 94 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/25 | | 90 | % | 50 - 130 |
| | | | Pyrene | 2025/04/25 | | 96 | % | 50 - 130 |
| 9914775 | EPA | Spiked Blank | D10-Anthracene | 2025/04/28 | | 93 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/28 | | 105 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/28 | | 96 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/28 | | 104 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/28 | | 116 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/28 | | 105 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/28 | | 116 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Anthracene | 2025/04/28 | | 129 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/04/28 | | 134 (1) | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/28 | | 122 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/28 | | 124 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/28 | | 104 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/28 | | 130 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/28 | | 121 | % | 50 - 130 |
| | | | Chrysene | 2025/04/28 | | 128 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/28 | | 86 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/28 | | 130 | % | 50 - 130 |
| | | | Fluorene | 2025/04/28 | | 109 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/28 | | 105 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/28 | | 105 | % | 50 - 130 |
| | | | Perylene | 2025/04/28 | | 120 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/28 | | 113 | % | 50 - 130 |
| | | | Pyrene | 2025/04/28 | | 124 | % | 50 - 130 |
| 9914775 | EPA | Method Blank | D10-Anthracene | 2025/04/25 | | 99 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/25 | | 98 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/25 | | 99 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/25 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/04/25 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/04/25 | <0.20 | | ug/L | |
| | | | Perylene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/04/25 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/04/25 | <0.010 | | ug/L | |
| 9914775 | EPA | RPD | 1-Methylnaphthalene | 2025/04/25 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/04/25 | NC | | % | 40 |
| | | | Acenaphthene | 2025/04/25 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/04/25 | NC | | % | 40 |
| | | | Anthracene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/04/25 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/04/25 | NC | | % | 40 |
| | | | Chrysene | 2025/04/25 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/04/25 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Fluoranthene | 2025/04/25 | NC | | % | 40 |
| | | | Fluorene | 2025/04/25 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/25 | NC | | % | 40 |
| | | | Naphthalene | 2025/04/25 | NC | | % | 40 |
| | | | Perylene | 2025/04/25 | NC | | % | 40 |
| | | | Phenanthrene | 2025/04/25 | NC | | % | 40 |
| | | | Pyrene | 2025/04/25 | 12 | | % | 40 |
| 9915253 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/24 | | 96 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/24 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/24 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/24 | | 106 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/24 | | 101 | % | 80 - 120 |
| 9915253 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/24 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/24 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/24 | | 98 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Lithium (Li) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/24 | | 109 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/24 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/24 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/24 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/24 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/24 | | 105 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/24 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/24 | | 102 | % | 80 - 120 |
| 9915253 | MOA | Method Blank | Total Aluminum (Al) | 2025/04/25 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/04/25 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/04/25 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/04/25 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/04/25 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/04/25 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/04/25 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/04/25 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/04/25 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/04/25 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/04/25 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/04/25 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/04/25 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/04/25 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/04/25 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/04/25 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/04/25 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/04/25 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/04/25 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/04/25 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/04/25 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/04/25 | <5.0 | | ug/L | |
| 9915253 | MOA | RPD | Total Aluminum (Al) | 2025/04/25 | 3.6 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/04/25 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/04/25 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/04/25 | 1.6 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Beryllium (Be) | 2025/04/25 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/04/25 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/04/25 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/04/25 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/04/25 | 2.9 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/04/25 | 0.68 | | % | 20 |
| | | | Total Cobalt (Co) | 2025/04/25 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/04/25 | 0.75 | | % | 20 |
| | | | Total Iron (Fe) | 2025/04/25 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/04/25 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/04/25 | 2.7 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/04/25 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/04/25 | 1.2 | | % | 20 |
| | | | Total Nickel (Ni) | 2025/04/25 | 0.72 | | % | 20 |
| | | | Total Phosphorus (P) | 2025/04/25 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/04/25 | 1.9 | | % | 20 |
| | | | Total Selenium (Se) | 2025/04/25 | 2.4 | | % | 20 |
| | | | Total Silver (Ag) | 2025/04/25 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/04/25 | 1.4 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/04/25 | 2.6 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/04/25 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/04/25 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/04/25 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/04/25 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/04/25 | 1.8 | | % | 20 |
| | | | Total Zinc (Zn) | 2025/04/25 | NC | | % | 20 |
| 9915396 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/04/24 | | 100 | % | 85 - 115 |
| 9915396 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/04/24 | | 100 | % | 80 - 120 |
| 9915396 | SSI | Method Blank | Total Organic Carbon (C) | 2025/04/24 | <0.50 | | mg/L | |
| 9915396 | SSI | RPD | Total Organic Carbon (C) | 2025/04/24 | 1.6 | | % | 15 |
| 9915400 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/04/24 | | 102 | % | 85 - 115 |
| 9915400 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/04/24 | | 97 | % | 80 - 120 |
| 9915400 | SSI | Method Blank | Total Organic Carbon (C) | 2025/04/24 | <0.50 | | mg/L | |
| 9915400 | SSI | RPD | Total Organic Carbon (C) | 2025/04/24 | 5.1 | | % | 15 |
| 9915707 | A1M | Matrix Spike [AQCD81-14] | 4-Bromofluorobenzene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/25 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/04/25 | | 99 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/04/25 | | 101 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/25 | | 86 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/04/25 | | 108 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/04/25 | | 99 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/04/25 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/04/25 | | 99 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,4-Dichlorobenzene | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | Benzene | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/04/25 | | 94 | % | 70 - 130 |
| | | | Bromoform | 2025/04/25 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2025/04/25 | | 117 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/04/25 | | 101 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/04/25 | | 92 | % | 70 - 130 |
| | | | Chloroethane | 2025/04/25 | | 103 | % | 60 - 140 |
| | | | Chloroform | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | Chloromethane | 2025/04/25 | | 110 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/04/25 | | 99 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/25 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/25 | | 90 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | Styrene | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/04/25 | | 91 | % | 70 - 130 |
| | | | Toluene | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/25 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/04/25 | | 105 | % | 60 - 140 |
| | | | o-Xylene | 2025/04/25 | | 94 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/04/25 | | 94 | % | 70 - 130 |
| 9915707 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/04/25 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/04/25 | | 102 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/04/25 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/04/25 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/04/25 | | 103 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/04/25 | | 101 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/04/25 | | 103 | % | 70 - 130 |
| | | | Bromomethane | 2025/04/25 | | 120 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/04/25 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2025/04/25 | | 106 | % | 60 - 140 |
| | | | Chloroform | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | Chloromethane | 2025/04/25 | | 114 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/25 | | 96 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Methyl t-butyl ether (MTBE) | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | Styrene | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/04/25 | | 96 | % | 70 - 130 |
| | | | Toluene | 2025/04/25 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/04/25 | | 93 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/25 | | 107 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/04/25 | | 110 | % | 60 - 140 |
| | | | o-Xylene | 2025/04/25 | | 99 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/04/25 | | 100 | % | 70 - 130 |
| 9915707 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/04/25 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/04/25 | | 95 | % | 70 - 130 |
| | | | D8-Toluene | 2025/04/25 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/04/25 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/04/25 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/04/25 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/04/25 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/25 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/04/25 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/04/25 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/04/25 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/04/25 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/04/25 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/04/25 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/04/25 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/04/25 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/04/25 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Benzene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/04/25 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/04/25 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/04/25 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/04/25 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/04/25 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/04/25 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/04/25 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/04/25 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/25 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/25 | <2.0 | | ug/L | |
| | | | Styrene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Toluene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/04/25 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/25 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/04/25 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/04/25 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/04/25 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/04/25 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/04/25 | <1.0 | | ug/L | |
| 9915707 | A1M | RPD | 1,1-Dichloroethane | 2025/04/25 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/04/25 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,1-Trichloroethane | 2025/04/25 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/04/25 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/04/25 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/04/25 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/04/25 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/04/25 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/04/25 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/04/25 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/04/25 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/04/25 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/04/25 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/04/25 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/04/25 | NC | | % | 40 |
| | | | Benzene | 2025/04/25 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/04/25 | NC | | % | 40 |
| | | | Bromoform | 2025/04/25 | NC | | % | 40 |
| | | | Bromomethane | 2025/04/25 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/04/25 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/04/25 | NC | | % | 40 |
| | | | Chloroethane | 2025/04/25 | NC | | % | 40 |
| | | | Chloroform | 2025/04/25 | NC | | % | 40 |
| | | | Chloromethane | 2025/04/25 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/04/25 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/04/25 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/04/25 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/04/25 | NC | | % | 40 |
| | | | Styrene | 2025/04/25 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/04/25 | NC | | % | 40 |
| | | | Toluene | 2025/04/25 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/04/25 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/04/25 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/04/25 | NC | | % | 40 |
| | | | o-Xylene | 2025/04/25 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/04/25 | NC | | % | 40 |
| | | | Total Xylenes | 2025/04/25 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/04/25 | NC | | % | 40 |
| 9917277 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/04/28 | | 106 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/04/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/04/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/04/28 | | 92 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/04/28 | | NC | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/04/28 | | NC | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/04/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/04/28 | | 95 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/04/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/04/28 | | NC | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Manganese (Mn) | 2025/04/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/28 | | 106 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/04/28 | | 94 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/04/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/04/28 | | NC | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/04/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/04/28 | | 108 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/04/28 | | NC | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/04/28 | | NC | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/04/28 | | 95 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/04/28 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/04/28 | | 94 | % | 80 - 120 |
| 9917277 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/04/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/04/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/04/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/04/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/04/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/04/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/04/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/04/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/04/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/04/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/04/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/04/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/04/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/04/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/04/28 | | 111 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/04/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/04/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/04/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/04/28 | | 107 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/04/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/04/28 | | 98 | % | 80 - 120 |
| 9917277 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/04/28 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/04/28 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/04/28 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/04/28 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/04/28 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/04/28 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Boron (B) | 2025/04/28 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/04/28 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/04/28 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/04/28 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/04/28 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/04/28 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/04/28 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/04/28 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/04/28 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/04/28 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/04/28 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/04/28 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/04/28 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/04/28 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/04/28 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/04/28 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/04/28 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/04/28 | <5.0 | | ug/L | |
| 9917277 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/04/28 | 0.035 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/04/28 | 2.0 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/04/28 | 0.95 | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/04/28 | 3.8 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/04/28 | 0.20 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/04/28 | 3.4 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/04/28 | 1.1 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/04/28 | 0.41 | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/04/28 | 1.3 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/04/28 | 2.4 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/04/28 | 1.2 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/04/28 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Uranium (U) | 2025/04/28 | 2.9 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/04/28 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/04/28 | 0.84 | | % | 20 |
| 9917739 | M2C | QC Standard | Turbidity | 2025/04/28 | | 101 | % | 80 - 120 |
| 9917739 | M2C | Spiked Blank | Turbidity | 2025/04/28 | | 103 | % | 80 - 120 |
| 9917739 | M2C | Method Blank | Turbidity | 2025/04/28 | <0.10 | | NTU | |
| 9917739 | M2C | RPD | Turbidity | 2025/04/28 | 9.2 | | % | 20 |
| 9917837 | KMC | Spiked Blank | pH | 2025/04/29 | | 99 | % | 97 - 103 |
| 9917837 | KMC | RPD | pH | 2025/04/29 | 0.33 | | % | N/A |
| 9917839 | KMC | Spiked Blank | Conductivity | 2025/04/29 | | 96 | % | 80 - 120 |
| 9917839 | KMC | Method Blank | Conductivity | 2025/04/29 | <1.0 | | uS/cm | |
| 9917839 | KMC | RPD | Conductivity | 2025/04/29 | 0.21 | | % | 10 |
| 9917844 | KMC | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/04/29 | | 97 | % | 80 - 120 |
| 9917844 | KMC | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/04/29 | <2.0 | | mg/L | |
| 9917844 | KMC | RPD | Total Alkalinity (Total as CaCO3) | 2025/04/29 | 14 | | % | 20 |
| 9917845 | KMC | Matrix Spike | Dissolved Fluoride (F-) | 2025/04/29 | | 98 | % | 80 - 120 |
| 9917845 | KMC | Spiked Blank | Dissolved Fluoride (F-) | 2025/04/29 | | 92 | % | 80 - 120 |
| 9917845 | KMC | Method Blank | Dissolved Fluoride (F-) | 2025/04/29 | <0.10 | | mg/L | |
| 9917845 | KMC | RPD | Dissolved Fluoride (F-) | 2025/04/29 | NC | | % | 20 |
| 9918080 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/04/28 | | 89 | % | 80 - 120 |
| 9918080 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/04/28 | | 88 | % | 80 - 120 |
| 9918080 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/04/28 | <1.0 | | mg/L | |
| 9918080 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/04/28 | NC | | % | 20 |
| 9918082 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/04/28 | | 106 | % | 80 - 120 |
| 9918082 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/04/28 | | 105 | % | 80 - 120 |
| 9918082 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/04/28 | <2.0 | | mg/L | |
| 9918082 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/04/28 | NC | | % | 20 |
| 9918083 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/04/29 | | 93 | % | 80 - 120 |
| 9918083 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/04/29 | | 92 | % | 80 - 120 |
| 9918083 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/04/29 | <0.50 | | mg/L | |
| 9918083 | MCN | RPD | Reactive Silica (SiO2) | 2025/04/29 | NC | | % | 20 |
| 9918084 | EMT | Spiked Blank | Colour | 2025/04/29 | | 101 | % | 80 - 120 |
| 9918084 | EMT | Method Blank | Colour | 2025/04/29 | <5.0 | | TCU | |
| 9918084 | EMT | RPD | Colour | 2025/04/29 | NC | | % | 20 |
| 9918085 | MCN | Matrix Spike | Orthophosphate (P) | 2025/04/29 | | 90 | % | 80 - 120 |
| 9918085 | MCN | Spiked Blank | Orthophosphate (P) | 2025/04/29 | | 96 | % | 80 - 120 |
| 9918085 | MCN | Method Blank | Orthophosphate (P) | 2025/04/29 | <0.010 | | mg/L | |
| 9918085 | MCN | RPD | Orthophosphate (P) | 2025/04/29 | NC | | % | 20 |
| 9918086 | EMT | Matrix Spike | Nitrate + Nitrite (N) | 2025/04/29 | | 100 | % | 80 - 120 |
| 9918086 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/04/29 | | 105 | % | 80 - 120 |
| 9918086 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/04/29 | <0.050 | | mg/L | |
| 9918086 | EMT | RPD | Nitrate + Nitrite (N) | 2025/04/29 | NC | | % | 20 |
| 9918087 | EMT | Matrix Spike | Nitrite (N) | 2025/04/29 | | 99 | % | 80 - 120 |
| 9918087 | EMT | Spiked Blank | Nitrite (N) | 2025/04/29 | | 107 | % | 80 - 120 |
| 9918087 | EMT | Method Blank | Nitrite (N) | 2025/04/29 | <0.010 | | mg/L | |
| 9918087 | EMT | RPD | Nitrite (N) | 2025/04/29 | NC | | % | 20 |
| 9918564 | IH0 | Method Blank | Carbon Dioxide | 2025/04/29 | <0.6 | | L/m3 | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9918564 | IH0 | RPD [AQCD81-12] | Carbon Dioxide | 2025/04/29 | 4.2 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Spike: < 10 % of compounds in multi-component analysis in violation.



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Bureau Veritas Job #: C544045
Report Date: 2025/05/01

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

**CLIENT NAME: STRUM ENVIRONMENTAL**
**120 TORBAY RD, UNIT E120**
**ST JOHN'S , NL A1A 2G8**

**ATTENTION TO: Carolyn Anstey-Moore**

**PROJECT: 24-10333**

**AGAT WORK ORDER: 25K272383**

**MICROBIOLOGY ANALYSIS REVIEWED BY: Kaliegh Cullen, Report Writer**

**DATE REPORTED: Apr 22, 2025**

**PAGES (INCLUDING COVER): 5**

**VERSION*: 1**

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

*Disclaimer:*

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
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- *This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.*
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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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# Certificate of Analysis

**AGAT WORK ORDER: 25K272383**

**PROJECT: 24-10333**

**CLIENT NAME: STRUM ENVIRONMENTAL**

**ATTENTION TO: Carolyn Anstey-Moore**

**SAMPLING SITE:**

**SAMPLED BY:**

## TC & EC by MPN

**DATE RECEIVED: 2025-04-17**

**DATE REPORTED: 2025-04-22**

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-04-16 12:00 | 2025-04-16 12:00 | 2025-04-16 12:00 |
| Parameter | Unit | G / S | RDL | | 6666824 | 6666825 | 6666826 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 326 | 270 | 82 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 61 | 50 | 4 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 3.26 | 2.70 | 0.82 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.61 | 0.50 | 0.04 |

**Comments:** RDL - Reported Detection Limit; G / S - Guideline / Standard

**6666824-6666826** Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Kaleigh Cullen



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
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http://www.agatlabs.com

# Quality Assurance

**CLIENT NAME: STRUM ENVIRONMENTAL**

**AGAT WORK ORDER: 25K272383**

**PROJECT: 24-10333**

**ATTENTION TO: Carolyn Anstey-Moore**

**SAMPLING SITE:**

**SAMPLED BY:**

## Microbiology Analysis

| RPT Date: Apr 22, 2025 | | | DUPLICATE | | | Method Blank | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| **TC & EC by MPN** | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6666826 | 82 | 82 | 0.0% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6666826 | 4 | 4 | NA | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 1 | 6666826 | 0.82 | 0.82 | 0.0% | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 1 | 6666826 | 0.04 | 0.04 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Kaliegh Cullen



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*Results relate only to the items tested. Results apply to samples as received.*

AGAT Laboratories

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# Method Summary

**CLIENT NAME: STRUM ENVIRONMENTAL**

**AGAT WORK ORDER: 25K272383**

**PROJECT: 24-10333**

**ATTENTION TO: Carolyn Anstey-Moore**

**SAMPLING SITE:**

**SAMPLED BY:**

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| **Microbiology Analysis** | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



*Results relate only to the items tested. Results apply to samples as received.*

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/02**
Report #: R8531007
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C546198**
**Received: 2025/04/25, 09:53**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/05/02 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/05/01 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/04/30 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/05/01 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/04/29 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/05/02 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/05/01 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/04/30 | 2025/05/01 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/05/01 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/04/25 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/04/30 | ATL SOP 00048 | Auto Calc |
| Mercury - Total (CVAA,LL) | 3 | 2025/05/01 | 2025/05/01 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/05/01 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/04/29 | 2025/04/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/05/02 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/05/02 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/04/29 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/05/02 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/05/01 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/05/02 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/04/28 | 2025/04/29 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/05/01 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/05/02 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/05/02 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/05/02 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/05/01 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/05/01 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/05/02 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/05/01 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/05/02 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 2 | 2025/04/29 | 2025/04/30 | ATL SOP 00007 | SM 24 2540D m |



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/02**
Report #: R8531007
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C546198**
**Received: 2025/04/25, 09:53**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Total Suspended Solids | 1 | 2025/04/29 | 2025/05/01 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/05/01 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/05/01 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/04/29 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/02**
Report #: R8531007
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C546198**
**Received: 2025/04/25, 09:53**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203
==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C546198
Report Date: 2025/05/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQGD99 | | | AQGD99 | | | AQGE00 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | | 2025/04/23 | | | 2025/04/23 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.200 | N/A | 9916197 | | | | 0.170 | N/A | 9916197 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 5.9 | 1.0 | 9916193 | | | | 3.8 | 1.0 | 9916193 |
| Calculated TDS | mg/L | 15 | 1.0 | 9916202 | | | | 16 | 1.0 | 9916202 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9916193 | | | | <1.0 | 1.0 | 9916193 |
| Cation Sum | me/L | 0.300 | N/A | 9916197 | | | | 0.360 | N/A | 9916197 |
| Hardness (CaCO3) | mg/L | 10 | 1.0 | 9916195 | | | | 12 | 1.0 | 9916643 |
| Ion Balance (% Difference) | % | 20.0 | N/A | 9916196 | | | | 35.9 | N/A | 9916196 |
| Langelier Index (@ 20C) | N/A | -3.09 | | 9916200 | | | | -3.02 | | 9916200 |
| Langelier Index (@ 4C) | N/A | -3.35 | | 9916201 | | | | -3.28 | | 9916201 |
| Nitrate (N) | mg/L | 0.11 | 0.050 | 9916602 | | | | 0.12 | 0.050 | 9916602 |
| Saturation pH (@ 20C) | N/A | 10.0 | | 9916200 | | | | 10.1 | | 9916200 |
| Saturation pH (@ 4C) | N/A | 10.3 | | 9916201 | | | | 10.4 | | 9916201 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 5.9 | 2.0 | 9920345 | | | | 3.9 | 2.0 | 9920345 |
| Dissolved Chloride (Cl-) | mg/L | 2.6 | 1.0 | 9920358 | | | | 3.1 | 1.0 | 9920358 |
| Colour | TCU | 100 | 25 | 9920799 | | | | 86 | 25 | 9920799 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9920347 | | | | <0.10 | 0.10 | 9920347 |
| Nitrate + Nitrite (N) | mg/L | 0.11 | 0.050 | 9920801 | | | | 0.12 | 0.050 | 9920801 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9920802 | | | | <0.010 | 0.010 | 9920802 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9918156 | | | | <0.050 | 0.050 | 9918156 |
| Total Organic Carbon (C) | mg/L | 8.5 | 0.50 | 9920207 | 8.4 | 0.50 | 9920207 | 7.5 | 0.50 | 9920195 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9920800 | | | | <0.010 | 0.010 | 9920800 |
| pH | pH | 6.92 | | 9920336 | | | | 7.09 | | 9920336 |
| Reactive Silica (SiO2) | mg/L | 3.0 | 0.50 | 9920798 | | | | 3.2 | 0.50 | 9920798 |
| Total Suspended Solids | mg/L | 12 | 1.0 | 9918205 | | | | 2.6 | 1.0 | 9918205 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9920797 | | | | <2.0 | 2.0 | 9920797 |
| Turbidity | NTU | 2.6 | 0.10 | 9920458 | | | | 1.2 | 0.10 | 9920458 |
| Conductivity | uS/cm | 28 | 1.0 | 9920344 | | | | 34 | 1.0 | 9920344 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C546198
Report Date: 2025/05/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQGE01 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | |
| Anion Sum | me/L | 0.140 | N/A | 9916197 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 2.5 | 1.0 | 9916193 |
| Calculated TDS | mg/L | 15 | 1.0 | 9916202 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9916193 |
| Cation Sum | me/L | 0.340 | N/A | 9916197 |
| Hardness (CaCO3) | mg/L | 12 | 1.0 | 9916643 |
| Ion Balance (% Difference) | % | 41.7 | N/A | 9916196 |
| Langelier Index (@ 20C) | N/A | -3.25 | | 9916200 |
| Langelier Index (@ 4C) | N/A | -3.51 | | 9916201 |
| Nitrate (N) | mg/L | 0.12 | 0.050 | 9916602 |
| Saturation pH (@ 20C) | N/A | 10.3 | | 9916200 |
| Saturation pH (@ 4C) | N/A | 10.6 | | 9916201 |
| **Inorganics** | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 2.5 | 2.0 | 9920345 |
| Dissolved Chloride (Cl-) | mg/L | 2.9 | 1.0 | 9920358 |
| Colour | TCU | 81 | 25 | 9920799 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9920347 |
| Nitrate + Nitrite (N) | mg/L | 0.12 | 0.050 | 9920801 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9920802 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9918156 |
| Total Organic Carbon (C) | mg/L | 7.5 | 0.50 | 9920195 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9920800 |
| pH | pH | 7.06 | | 9920336 |
| Reactive Silica (SiO2) | mg/L | 3.0 | 0.50 | 9920798 |
| Total Suspended Solids | mg/L | <1.0 | 1.0 | 9918304 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9920797 |
| Turbidity | NTU | 0.84 | 0.10 | 9920458 |
| Conductivity | uS/cm | 32 | 1.0 | 9920344 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C546198
Report Date: 2025/05/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9919326 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C546198
Report Date: 2025/05/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQGD99 | | | AQGD99 | | | AQGE00 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | | 2025/04/23 | | | 2025/04/23 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Metals** | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 100 | 5.0 | 9919918 | | | | 82 | 5.0 | 9919918 |
| Total Aluminum (Al) | ug/L | 130 | 5.0 | 9918140 | | | | 100 | 5.0 | 9918140 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9919918 | | | | <1.0 | 1.0 | 9919918 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9918140 | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 1.0 | 9919918 | | | | <1.0 | 1.0 | 9919918 |
| Total Arsenic (As) | ug/L | <1.0 | 1.0 | 9918140 | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Barium (Ba) | ug/L | 3.9 | 1.0 | 9919918 | | | | 4.9 | 1.0 | 9919918 |
| Total Barium (Ba) | ug/L | 3.8 | 1.0 | 9919841 | 4.0 | 1.0 | 9919841 | 4.9 | 1.0 | 9919839 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9919918 | | | | <0.10 | 0.10 | 9919918 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9918140 | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9919918 | | | | <50 | 50 | 9919918 |
| Total Boron (B) | ug/L | <50 | 50 | 9918140 | | | | <50 | 50 | 9918140 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9919918 | | | | <0.010 | 0.010 | 9919918 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9918140 | | | | <0.010 | 0.010 | 9918140 |
| Dissolved Calcium (Ca) | ug/L | 3000 | 100 | 9919918 | | | | 3700 | 100 | 9919918 |
| Total Calcium (Ca) | ug/L | 2900 | 100 | 9918140 | | | | 3600 | 100 | 9918140 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9919918 | | | | <1.0 | 1.0 | 9919918 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9918140 | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9919918 | | | | <0.40 | 0.40 | 9919918 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9918140 | | | | <0.40 | 0.40 | 9918140 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9919918 | | | | <0.50 | 0.50 | 9919918 |
| Total Copper (Cu) | ug/L | <0.50 | 0.50 | 9918140 | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Iron (Fe) | ug/L | 74 | 50 | 9919918 | | | | 71 | 50 | 9919918 |
| Total Iron (Fe) | ug/L | 110 | 50 | 9918140 | | | | 120 | 50 | 9918140 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9919918 | | | | <0.50 | 0.50 | 9919918 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9918140 | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Magnesium (Mg) | ug/L | 610 | 100 | 9919918 | | | | 740 | 100 | 9919918 |
| Total Magnesium (Mg) | ug/L | 580 | 100 | 9918140 | | | | 720 | 100 | 9918140 |
| Dissolved Manganese (Mn) | ug/L | 3.9 | 2.0 | 9919918 | | | | 6.6 | 2.0 | 9919918 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQGD99 | | | AQGD99 | | | AQGE00 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | | 2025/04/23 | | | 2025/04/23 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 7.6 | 2.0 | 9918140 | | | | 13 | 2.0 | 9918140 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9919918 | | | | <100 | 100 | 9919918 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9918140 | | | | <100 | 100 | 9918140 |
| Dissolved Potassium (K) | ug/L | 150 | 100 | 9919918 | | | | 160 | 100 | 9919918 |
| Total Potassium (K) | ug/L | 140 | 100 | 9918140 | | | | 150 | 100 | 9918140 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9919918 | | | | <0.50 | 0.50 | 9919918 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9918140 | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9919918 | | | | <0.10 | 0.10 | 9919918 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9918140 | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Sodium (Na) | ug/L | 2000 | 100 | 9919918 | | | | 2400 | 100 | 9919918 |
| Total Sodium (Na) | ug/L | 1900 | 100 | 9918140 | | | | 2300 | 100 | 9918140 |
| Dissolved Strontium (Sr) | ug/L | 10 | 2.0 | 9919918 | | | | 12 | 2.0 | 9919918 |
| Total Strontium (Sr) | ug/L | 10 | 2.0 | 9918140 | | | | 13 | 2.0 | 9918140 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9919918 | | | | <0.10 | 0.10 | 9919918 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9918140 | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Titanium (Ti) | ug/L | 2.5 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9919918 | | | | <0.10 | 0.10 | 9919918 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9918140 | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9919918 | | | | <2.0 | 2.0 | 9919918 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9918140 | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9919918 | | | | <5.0 | 5.0 | 9919918 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9918140 | | | | <5.0 | 5.0 | 9918140 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQGE00 | | | AQGE01 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | | 2025/04/23 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | | | | 84 | 5.0 | 9919918 |
| Total Aluminum (Al) | ug/L | | | | 110 | 5.0 | 9918140 |
| Dissolved Antimony (Sb) | ug/L | | | | <1.0 | 1.0 | 9919918 |
| Total Antimony (Sb) | ug/L | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Arsenic (As) | ug/L | | | | <1.0 | 1.0 | 9919918 |
| Total Arsenic (As) | ug/L | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Barium (Ba) | ug/L | | | | 4.7 | 1.0 | 9919918 |
| Total Barium (Ba) | ug/L | 4.8 | 1.0 | 9919839 | 4.8 | 1.0 | 9919841 |
| Dissolved Beryllium (Be) | ug/L | | | | <0.10 | 0.10 | 9919918 |
| Total Beryllium (Be) | ug/L | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Bismuth (Bi) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Bismuth (Bi) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Boron (B) | ug/L | | | | <50 | 50 | 9919918 |
| Total Boron (B) | ug/L | | | | <50 | 50 | 9918140 |
| Dissolved Cadmium (Cd) | ug/L | | | | <0.010 | 0.010 | 9919918 |
| Total Cadmium (Cd) | ug/L | | | | <0.010 | 0.010 | 9918140 |
| Dissolved Calcium (Ca) | ug/L | | | | 3600 | 100 | 9919918 |
| Total Calcium (Ca) | ug/L | | | | 3600 | 100 | 9918140 |
| Dissolved Chromium (Cr) | ug/L | | | | <1.0 | 1.0 | 9919918 |
| Total Chromium (Cr) | ug/L | | | | <1.0 | 1.0 | 9918140 |
| Dissolved Cobalt (Co) | ug/L | | | | <0.40 | 0.40 | 9919918 |
| Total Cobalt (Co) | ug/L | | | | <0.40 | 0.40 | 9918140 |
| Dissolved Copper (Cu) | ug/L | | | | <0.50 | 0.50 | 9919918 |
| Total Copper (Cu) | ug/L | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Iron (Fe) | ug/L | | | | 72 | 50 | 9919918 |
| Total Iron (Fe) | ug/L | | | | 130 | 50 | 9918140 |
| Dissolved Lead (Pb) | ug/L | | | | <0.50 | 0.50 | 9919918 |
| Total Lead (Pb) | ug/L | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Lithium (Li) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Lithium (Li) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Magnesium (Mg) | ug/L | | | | 710 | 100 | 9919918 |
| Total Magnesium (Mg) | ug/L | | | | 700 | 100 | 9918140 |
| Dissolved Manganese (Mn) | ug/L | | | | 6.7 | 2.0 | 9919918 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQGE00 | | | AQGE01 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | | | 2025/04/23 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | | | | 14 | 2.0 | 9918140 |
| Dissolved Molybdenum (Mo) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Molybdenum (Mo) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Nickel (Ni) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Nickel (Ni) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Phosphorus (P) | ug/L | | | | <100 | 100 | 9919918 |
| Total Phosphorus (P) | ug/L | | | | <100 | 100 | 9918140 |
| Dissolved Potassium (K) | ug/L | | | | 150 | 100 | 9919918 |
| Total Potassium (K) | ug/L | | | | 140 | 100 | 9918140 |
| Dissolved Selenium (Se) | ug/L | | | | <0.50 | 0.50 | 9919918 |
| Total Selenium (Se) | ug/L | | | | <0.50 | 0.50 | 9918140 |
| Dissolved Silver (Ag) | ug/L | | | | <0.10 | 0.10 | 9919918 |
| Total Silver (Ag) | ug/L | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Sodium (Na) | ug/L | | | | 2200 | 100 | 9919918 |
| Total Sodium (Na) | ug/L | | | | 2200 | 100 | 9918140 |
| Dissolved Strontium (Sr) | ug/L | | | | 12 | 2.0 | 9919918 |
| Total Strontium (Sr) | ug/L | | | | 13 | 2.0 | 9918140 |
| Dissolved Thallium (Tl) | ug/L | | | | <0.10 | 0.10 | 9919918 |
| Total Thallium (Tl) | ug/L | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Tin (Sn) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Tin (Sn) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Titanium (Ti) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Titanium (Ti) | ug/L | | | | 2.1 | 2.0 | 9918140 |
| Dissolved Uranium (U) | ug/L | | | | <0.10 | 0.10 | 9919918 |
| Total Uranium (U) | ug/L | | | | <0.10 | 0.10 | 9918140 |
| Dissolved Vanadium (V) | ug/L | | | | <2.0 | 2.0 | 9919918 |
| Total Vanadium (V) | ug/L | | | | <2.0 | 2.0 | 9918140 |
| Dissolved Zinc (Zn) | ug/L | | | | <5.0 | 5.0 | 9919918 |
| Total Zinc (Zn) | ug/L | | | | <5.0 | 5.0 | 9918140 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.4 | 0.7 | 0.9 | 0.6 | 9918564 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 2 | 1 | 9916117 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9917636 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9917636 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9916639 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9917636 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| Phenanthrene | ug/L | 0.010 | 0.010 | <0.010 | 0.010 | 9917636 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9917636 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 79 | 81 | 80 | | 9917636 |
| D14-Terphenyl | % | 79 (1) | 82 (1) | 80 (1) | | 9917636 |
| D8-Acenaphthylene | % | 78 | 81 | 80 | | 9917636 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9920311 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9920311 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9920311 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9920311 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9920311 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9920311 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9920311 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9920311 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9920311 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9920311 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 99 | 99 | 99 | | 9920311 |
| D4-1,2-Dichloroethane | % | 103 | 102 | 102 | | 9920311 |
| D8-Toluene | % | 99 | 99 | 99 | | 9920311 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AQGD99 | AQGE00 | AQGE01 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/23 | 2025/04/23 | 2025/04/23 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9917534 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9917534 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9917534 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9917534 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9917534 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9918976 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9918976 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9918976 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9916304 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9918976 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9918976 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 95 | 96 | 96 | | 9918976 |
| n-Dotriacontane - Extractable | % | 94 | 96 | 96 | | 9918976 |
| Isobutylbenzene - Volatile | % | 97 | 98 | 97 | | 9917534 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 3.1°C |

Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.

Sample AQGD99 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQGE00 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQGE01 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQGD99, Metals Water Total MS: Test repeated.
Sample AQGE00, Metals Water Total MS: Test repeated.
Sample AQGE01, Metals Water Total MS: Test repeated.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9917534 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/04/29 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/04/29 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/04/29 | | 93 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/29 | | 92 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/29 | | 94 | % | 70 - 130 |
| 9917534 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/04/29 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/04/29 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/04/29 | | 96 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/04/29 | | 96 | % | 70 - 130 |
| | | | Total Xylenes | 2025/04/29 | | 98 | % | 70 - 130 |
| 9917534 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/04/29 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/04/29 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/04/29 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/04/29 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/04/29 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/04/29 | <0.090 | | mg/L | |
| 9917534 | THL | RPD | Benzene | 2025/04/29 | NC | | % | 40 |
| | | | Toluene | 2025/04/29 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/04/29 | NC | | % | 40 |
| | | | Total Xylenes | 2025/04/29 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/04/29 | NC | | % | 40 |
| 9917636 | EPA | Matrix Spike | D10-Anthracene | 2025/04/29 | | 95 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/29 | | 96 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/29 | | 95 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/29 | | 98 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/29 | | 105 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/29 | | 97 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/29 | | 101 | % | 50 - 130 |
| | | | Anthracene | 2025/04/29 | | 115 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/04/29 | | 102 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/29 | | 107 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/29 | | 112 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/29 | | 100 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/29 | | 116 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/29 | | 114 | % | 50 - 130 |
| | | | Chrysene | 2025/04/29 | | 106 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/29 | | 97 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/29 | | 107 | % | 50 - 130 |
| | | | Fluorene | 2025/04/29 | | 95 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/29 | | 104 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/29 | | 104 | % | 50 - 130 |
| | | | Perylene | 2025/04/29 | | 104 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/29 | | 101 | % | 50 - 130 |
| | | | Pyrene | 2025/04/29 | | 104 | % | 50 - 130 |
| 9917636 | EPA | Spiked Blank | D10-Anthracene | 2025/04/29 | | 93 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/29 | | 93 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/29 | | 94 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/29 | | 94 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/04/29 | | 101 | % | 50 - 130 |
| | | | Acenaphthene | 2025/04/29 | | 92 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/04/29 | | 96 | % | 50 - 130 |
| | | | Anthracene | 2025/04/29 | | 109 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzo(a)anthracene | 2025/04/29 | | 97 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/04/29 | | 100 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/04/29 | | 105 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/04/29 | | 92 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/04/29 | | 109 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/04/29 | | 105 | % | 50 - 130 |
| | | | Chrysene | 2025/04/29 | | 100 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/04/29 | | 84 | % | 50 - 130 |
| | | | Fluoranthene | 2025/04/29 | | 102 | % | 50 - 130 |
| | | | Fluorene | 2025/04/29 | | 91 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/29 | | 95 | % | 50 - 130 |
| | | | Naphthalene | 2025/04/29 | | 98 | % | 50 - 130 |
| | | | Perylene | 2025/04/29 | | 98 | % | 50 - 130 |
| | | | Phenanthrene | 2025/04/29 | | 97 | % | 50 - 130 |
| | | | Pyrene | 2025/04/29 | | 99 | % | 50 - 130 |
| 9917636 | EPA | Method Blank | D10-Anthracene | 2025/04/29 | | 89 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/04/29 | | 90 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/04/29 | | 89 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/04/29 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/04/29 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/04/29 | <0.20 | | ug/L | |
| | | | Perylene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/04/29 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/04/29 | <0.010 | | ug/L | |
| 9917636 | EPA | RPD | Benzo(a)pyrene | 2025/04/29 | NC | | % | 40 |
| 9918140 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/29 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/29 | | 88 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/29 | | 88 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/29 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/29 | | 92 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Lithium (Li) | 2025/04/29 | | 93 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/29 | | 103 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/29 | | 94 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/29 | | 97 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/29 | | 92 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/29 | | 101 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/29 | | 94 | % | 80 - 120 |
| 9918140 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/04/29 | | 103 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/04/29 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/04/29 | | 92 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/04/29 | | 92 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/04/29 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/04/29 | | 101 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/04/29 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/04/29 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/04/29 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/04/29 | | 96 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/04/29 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/04/29 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/04/29 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/04/29 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/04/29 | | 101 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/04/29 | | 102 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/04/29 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/04/29 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/04/29 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/04/29 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/04/29 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/04/29 | | 100 | % | 80 - 120 |
| 9918140 | MOA | Method Blank | Total Aluminum (Al) | 2025/04/29 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/04/29 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/04/29 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/04/29 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/04/29 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Boron (B) | 2025/04/29 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/04/29 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/04/29 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/04/29 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/04/29 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/04/29 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/04/29 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/04/29 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/04/29 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/04/29 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/04/29 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/04/29 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/04/29 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/04/29 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/04/29 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/04/29 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/04/29 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/04/29 | <5.0 | | ug/L | |
| 9918140 | MOA | RPD | Total Aluminum (Al) | 2025/04/29 | 0.44 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/04/29 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/04/29 | NC | | % | 20 |
| | | | Total Beryllium (Be) | 2025/04/29 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/04/29 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/04/29 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/04/29 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/04/29 | 0.88 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/04/29 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/04/29 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/04/29 | 1.2 | | % | 20 |
| | | | Total Iron (Fe) | 2025/04/29 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/04/29 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/04/29 | 0.070 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/04/29 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/04/29 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/04/29 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/04/29 | 2.2 | | % | 20 |
| | | | Total Potassium (K) | 2025/04/29 | 3.5 | | % | 20 |
| | | | Total Selenium (Se) | 2025/04/29 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/04/29 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/04/29 | 1.1 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/04/29 | 2.3 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/04/29 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/04/29 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/04/29 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/04/29 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Vanadium (V) | 2025/04/29 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/04/29 | 1.2 | | % | 20 |
| 9918156 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/04/29 | | 82 | % | 80 - 120 |
| 9918156 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/29 | | 98 | % | 80 - 120 |
| 9918156 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/04/29 | <0.050 | | mg/L | |
| 9918156 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/04/29 | NC | | % | 20 |
| 9918205 | RD4 | QC Standard | Total Suspended Solids | 2025/04/30 | | 99 | % | 80 - 120 |
| 9918205 | RD4 | Method Blank | Total Suspended Solids | 2025/04/30 | <1.0 | | mg/L | |
| 9918205 | RD4 | RPD | Total Suspended Solids | 2025/04/30 | 0 | | % | 20 |
| 9918304 | RD4 | QC Standard | Total Suspended Solids | 2025/05/01 | | 100 | % | 80 - 120 |
| 9918304 | RD4 | Method Blank | Total Suspended Solids | 2025/05/01 | <1.0 | | mg/L | |
| 9918304 | RD4 | RPD | Total Suspended Solids | 2025/05/01 | 10 | | % | 20 |
| 9918564 | IH0 | Method Blank | Carbon Dioxide | 2025/04/29 | <0.6 | | L/m3 | |
| 9918564 | IH0 | RPD | Carbon Dioxide | 2025/04/29 | 4.2 | | % | 20 |
| 9918976 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/01 | | 102 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/01 | | 106 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/01 | | 101 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/01 | | 104 | % | 70 - 130 |
| 9918976 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/04/30 | | 96 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/30 | | 117 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/30 | | 100 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/04/30 | | 94 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/04/30 | | 98 | % | 70 - 130 |
| 9918976 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/04/30 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/04/30 | | 115 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/04/30 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/04/30 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/04/30 | <0.090 | | mg/L | |
| 9918976 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/05/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/05/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/02 | NC | | % | 40 |
| 9919326 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/05/01 | | 98 | % | 80 - 120 |
| 9919326 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/05/01 | | 100 | % | 80 - 120 |
| 9919326 | JEP | Method Blank | Total Mercury (Hg) | 2025/05/01 | <0.013 | | ug/L | |
| 9919326 | JEP | RPD | Total Mercury (Hg) | 2025/05/01 | NC | | % | 20 |
| 9919839 | MOA | Matrix Spike | Total Barium (Ba) | 2025/05/01 | | 95 | % | 80 - 120 |
| 9919839 | MOA | Spiked Blank | Total Barium (Ba) | 2025/05/01 | | 94 | % | 80 - 120 |
| 9919839 | MOA | Method Blank | Total Barium (Ba) | 2025/05/01 | <1.0 | | ug/L | |
| 9919839 | MOA | RPD [AQGE00-03] | Total Barium (Ba) | 2025/05/01 | 3.2 | | % | 20 |
| 9919841 | MTZ | Matrix Spike [AQGE01-03] | Total Barium (Ba) | 2025/05/01 | | 95 | % | 80 - 120 |
| 9919841 | MTZ | Spiked Blank | Total Barium (Ba) | 2025/05/01 | | 95 | % | 80 - 120 |
| 9919841 | MTZ | Method Blank | Total Barium (Ba) | 2025/05/01 | <1.0 | | ug/L | |
| 9919841 | MTZ | RPD [AQGD99-03] | Total Barium (Ba) | 2025/05/01 | 4.9 | | % | 20 |
| 9919918 | MOA | Matrix Spike | Dissolved Aluminum (Al) | 2025/05/01 | | 103 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/01 | | 96 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/01 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/01 | | 95 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Cadmium (Cd) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/01 | | 97 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/01 | | 97 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/01 | | 98 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/01 | | 105 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/01 | | 104 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/01 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/01 | | 110 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/01 | | 97 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/01 | | 101 | % | 80 - 120 |
| 9919918 | MOA | Spiked Blank | Dissolved Aluminum (Al) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/01 | | 98 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/01 | | 97 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/01 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/01 | | 103 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/01 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/01 | | 106 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/01 | | 105 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/01 | | 99 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/01 | | 110 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/01 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/01 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Uranium (U) | 2025/05/01 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/01 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/01 | | 103 | % | 80 - 120 |
| 9919918 | MOA | Method Blank | Dissolved Aluminum (Al) | 2025/05/01 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/05/01 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/05/01 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/05/01 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/05/01 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/05/01 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/05/01 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/05/01 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/05/01 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/05/01 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/05/01 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/05/01 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/05/01 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/05/01 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/05/01 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/05/01 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/05/01 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/05/01 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/05/01 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/05/01 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/05/01 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/05/01 | <5.0 | | ug/L | |
| 9919918 | MOA | RPD | Dissolved Aluminum (Al) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/05/01 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Phosphorus (P) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/05/01 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/05/01 | NC | | % | 20 |
| 9920195 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/01 | | 96 | % | 85 - 115 |
| 9920195 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/01 | | 97 | % | 80 - 120 |
| 9920195 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/01 | <0.50 | | mg/L | |
| 9920195 | SSI | RPD | Total Organic Carbon (C) | 2025/05/01 | NC (2) | | % | 15 |
| 9920207 | SSI | Matrix Spike [AQGD99-05] | Total Organic Carbon (C) | 2025/05/01 | | 99 | % | 85 - 115 |
| 9920207 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/01 | | 97 | % | 80 - 120 |
| 9920207 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/01 | <0.50 | | mg/L | |
| 9920207 | SSI | RPD [AQGD99-05] | Total Organic Carbon (C) | 2025/05/01 | 1.1 | | % | 15 |
| 9920311 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/01 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/01 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/01 | | 97 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/01 | | 102 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/01 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/01 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/01 | | 91 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/01 | | 106 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | Benzene | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/05/01 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/01 | | 117 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/01 | | 102 | % | 60 - 140 |
| | | | Chloroform | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/01 | | 99 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/01 | | 89 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/01 | | 94 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2025/05/01 | | 92 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/01 | | 91 | % | 70 - 130 |
| | | | Toluene | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/01 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/01 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/01 | | 104 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/01 | | 97 | % | 70 - 130 |
| 9920311 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/05/01 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/01 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/01 | | 93 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/01 | | 89 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/01 | | 91 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/01 | | 91 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/01 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/01 | | 90 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/01 | | 93 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/01 | | 93 | % | 70 - 130 |
| | | | Benzene | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/01 | | 91 | % | 70 - 130 |
| | | | Bromoform | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/01 | | 109 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/01 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/01 | | 100 | % | 60 - 140 |
| | | | Chloroform | 2025/05/01 | | 92 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/01 | | 96 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/01 | | 93 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/01 | | 84 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/01 | | 96 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/01 | | 90 | % | 70 - 130 |
| | | | Styrene | 2025/05/01 | | 95 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/01 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/05/01 | | 93 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/01 | | 89 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/01 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/01 | | 104 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/01 | | 98 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/01 | | 99 | % | 70 - 130 |
| 9920311 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/05/01 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/01 | | 94 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/01 | | 102 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/01 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/05/01 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,1-Trichloroethane | 2025/05/01 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/05/01 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/01 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/05/01 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/05/01 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/05/01 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/05/01 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/05/01 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/05/01 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/05/01 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/05/01 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/05/01 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Benzene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/05/01 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/05/01 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/05/01 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/05/01 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/05/01 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/05/01 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/05/01 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/05/01 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/01 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/01 | <2.0 | | ug/L | |
| | | | Styrene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Toluene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/05/01 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/01 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/05/01 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/05/01 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/05/01 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/05/01 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/05/01 | <1.0 | | ug/L | |
| 9920311 | A1M | RPD | 1,1-Dichloroethane | 2025/05/01 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/05/01 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/05/01 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/05/01 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/01 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/05/01 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/05/01 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/05/01 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/05/01 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/05/01 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/05/01 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/05/01 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/05/01 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/05/01 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/05/01 | NC | | % | 40 |
| | | | Benzene | 2025/05/01 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromodichloromethane | 2025/05/01 | NC | | % | 40 |
| | | | Bromoform | 2025/05/01 | NC | | % | 40 |
| | | | Bromomethane | 2025/05/01 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/05/01 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/05/01 | NC | | % | 40 |
| | | | Chloroethane | 2025/05/01 | NC | | % | 40 |
| | | | Chloroform | 2025/05/01 | NC | | % | 40 |
| | | | Chloromethane | 2025/05/01 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/05/01 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/01 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/01 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/01 | NC | | % | 40 |
| | | | Styrene | 2025/05/01 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/05/01 | NC | | % | 40 |
| | | | Toluene | 2025/05/01 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/05/01 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/01 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/05/01 | NC | | % | 40 |
| | | | o-Xylene | 2025/05/01 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/05/01 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/01 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/05/01 | NC | | % | 40 |
| 9920336 | M2C | Spiked Blank | pH | 2025/05/01 | | 99 | % | 97 - 103 |
| 9920336 | M2C | RPD | pH | 2025/05/01 | 0.23 | | % | N/A |
| 9920344 | M2C | Spiked Blank | Conductivity | 2025/05/01 | | 98 | % | 80 - 120 |
| 9920344 | M2C | Method Blank | Conductivity | 2025/05/01 | <1.0 | | uS/cm | |
| 9920344 | M2C | RPD | Conductivity | 2025/05/01 | 0.24 | | % | 10 |
| 9920345 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/01 | | 97 | % | 80 - 120 |
| 9920345 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/01 | <2.0 | | mg/L | |
| 9920345 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/05/01 | 0.66 | | % | 20 |
| 9920347 | M2C | Matrix Spike [AQGD99-02] | Dissolved Fluoride (F-) | 2025/05/01 | | 89 | % | 80 - 120 |
| 9920347 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/01 | | 91 | % | 80 - 120 |
| 9920347 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/01 | <0.10 | | mg/L | |
| 9920347 | M2C | RPD | Dissolved Fluoride (F-) | 2025/05/01 | 4.5 | | % | 20 |
| 9920358 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/05/01 | | 90 | % | 80 - 120 |
| 9920358 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/05/01 | | 86 | % | 80 - 120 |
| 9920358 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/05/01 | <1.0 | | mg/L | |
| 9920358 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/05/01 | 4.2 | | % | 20 |
| 9920458 | M2C | QC Standard | Turbidity | 2025/05/01 | | 100 | % | 80 - 120 |
| 9920458 | M2C | Spiked Blank | Turbidity | 2025/05/01 | | 103 | % | 80 - 120 |
| 9920458 | M2C | Method Blank | Turbidity | 2025/05/01 | <0.10 | | NTU | |
| 9920458 | M2C | RPD | Turbidity | 2025/05/01 | 0.50 | | % | 20 |
| 9920797 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/05/01 | | 93 | % | 80 - 120 |
| 9920797 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/05/01 | | 89 | % | 80 - 120 |
| 9920797 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/05/01 | <2.0 | | mg/L | |
| 9920797 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/05/01 | 16 | | % | 20 |
| 9920798 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/05/01 | | 92 | % | 80 - 120 |
| 9920798 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/05/01 | | 98 | % | 80 - 120 |
| 9920798 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/05/01 | <0.50 | | mg/L | |
| 9920798 | MCN | RPD | Reactive Silica (SiO2) | 2025/05/01 | 1.5 | | % | 20 |
| 9920799 | MCN | Spiked Blank | Colour | 2025/05/02 | | 115 | % | 80 - 120 |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9920799 | MCN | Method Blank | Colour | 2025/05/02 | <5.0 | | TCU | |
| 9920799 | MCN | RPD | Colour | 2025/05/02 | NC | | % | 20 |
| 9920800 | MCN | Matrix Spike | Orthophosphate (P) | 2025/05/02 | | 103 | % | 80 - 120 |
| 9920800 | MCN | Spiked Blank | Orthophosphate (P) | 2025/05/02 | | 104 | % | 80 - 120 |
| 9920800 | MCN | Method Blank | Orthophosphate (P) | 2025/05/02 | <0.010 | | mg/L | |
| 9920800 | MCN | RPD | Orthophosphate (P) | 2025/05/02 | NC | | % | 20 |
| 9920801 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/05/02 | | 100 | % | 80 - 120 |
| 9920801 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/05/02 | | 100 | % | 80 - 120 |
| 9920801 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/05/02 | <0.050 | | mg/L | |
| 9920801 | MCN | RPD | Nitrate + Nitrite (N) | 2025/05/02 | 0.58 | | % | 20 |
| 9920802 | MCN | Matrix Spike | Nitrite (N) | 2025/05/01 | | 107 | % | 80 - 120 |
| 9920802 | MCN | Spiked Blank | Nitrite (N) | 2025/05/01 | | 109 | % | 80 - 120 |
| 9920802 | MCN | Method Blank | Nitrite (N) | 2025/05/01 | <0.010 | | mg/L | |
| 9920802 | MCN | RPD | Nitrite (N) | 2025/05/01 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.

(2) Elevated reporting limit due to turbidity.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C546198
Report Date: 2025/05/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

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Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: CAROLYN ANTSEY-MOORE

PROJECT: 24-10333

AGAT WORK ORDER: 25K274218

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Apr 29, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K274218

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: CAROLYN ANTSEY-MOORE

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-04-24

DATE REPORTED: 2025-04-29

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-04-23 10:30 | 2025-04-23 11:00 | 2025-04-23 11:30 |
| Parameter | Unit | G / S | RDL | | 6682246 | 6682255 | 6682256 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 261 | 71 | 155 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 54 | 9 | 39 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 2.61 | 0.71 | 1.55 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.54 | 0.09 | 0.39 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6682246-6682256 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K274218

PROJECT: 24-10333

ATTENTION TO: CAROLYN ANTSEY-MOORE

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: Apr 29, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6683445 | 158 | 158 | 0.0% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6683445 | 4 | 4 | 0.0% | < 1 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K274218

PROJECT: 24-10333

ATTENTION TO: CAROLYN ANTSEY-MOORE

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/12**
Report #: R8536120
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C549367**
**Received: 2025/05/02, 09:36**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 2 | N/A | 2025/05/08 | N/A | SM 24 4500-CO2 D |
| Carbonate, Bicarbonate and Hydroxide | 1 | N/A | 2025/05/09 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 2 | N/A | 2025/05/07 | ATL SOP 00142 | SM 24 2320 B |
| Alkalinity | 1 | N/A | 2025/05/08 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/05/08 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/05/07 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/05/09 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/05/08 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 2 | N/A | 2025/05/07 | ATL SOP 00004 | SM 24 2510B m |
| Conductance - water | 1 | N/A | 2025/05/08 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 2 | 2025/05/05 | 2025/05/06 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 1 | 2025/05/05 | 2025/05/07 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 2 | N/A | 2025/05/07 | ATL SOP 00043 | SM 24 4500-F- C m |
| Fluoride | 1 | N/A | 2025/05/08 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/05/02 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/05/07 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/05/07 | 2025/05/07 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/05/07 | 2025/05/07 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/05/08 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/05/05 | 2025/05/06 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/05/09 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/05/09 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/05/09 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/05/08 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/05/08 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/05/08 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/05/06 | 2025/05/07 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 2 | N/A | 2025/05/07 | ATL SOP 00003 | SM 24 4500-H+ B m |
| pH (3) | 1 | N/A | 2025/05/08 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/05/08 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/05/09 | ATL SOP 00049 | Auto Calc. |



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/12**
Report #: R8536120
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C549367**
**Received: 2025/05/02, 09:36**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/05/09 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/05/07 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/05/07 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/05/09 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/05/07 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/05/07 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/05/06 | 2025/05/07 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/05/08 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/05/06 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/05/05 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/12**
Report #: R8536120
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C549367**

**Received: 2025/05/02, 09:36**

(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C549367
Report Date: 2025/05/12

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQMB28 | AQMB29 | | AQMB30 | | | AQMB30 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | | 2025/04/30 12:48 | | | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.230 | 0.160 | 9920850 | 0.230 | N/A | 9920850 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 7.8 | 3.4 | 9920842 | 7.4 | 1.0 | 9920842 | | | |
| Calculated TDS | mg/L | 18 | 15 | 9920855 | 17 | 1.0 | 9920855 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | <1.0 | 9920842 | <1.0 | 1.0 | 9920842 | | | |
| Cation Sum | me/L | 0.330 | 0.350 | 9920850 | 0.330 | N/A | 9920850 | | | |
| Hardness (CaCO3) | mg/L | 11 | 12 | 9920900 | 11 | 1.0 | 9920900 | | | |
| Ion Balance (% Difference) | % | 17.9 | 37.3 | 9920849 | 17.9 | N/A | 9920849 | | | |
| Langelier Index (@ 20C) | N/A | -2.87 | -3.13 | 9920853 | -2.85 | | 9920853 | | | |
| Langelier Index (@ 4C) | N/A | -3.12 | -3.39 | 9920854 | -3.10 | | 9920854 | | | |
| Nitrate (N) | mg/L | 0.096 | 0.091 | 9920851 | 0.099 | 0.050 | 9920851 | | | |
| Saturation pH (@ 20C) | N/A | 9.84 | 10.2 | 9920853 | 9.86 | | 9920853 | | | |
| Saturation pH (@ 4C) | N/A | 10.1 | 10.4 | 9920854 | 10.1 | | 9920854 | | | |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 7.9 | 3.5 | 9923908 | 7.4 | 2.0 | 9924887 | 8.7 | 2.0 | 9924887 |
| Dissolved Chloride (Cl-) | mg/L | 2.4 | 3.1 | 9924089 | 2.5 | 1.0 | 9924089 | | | |
| Colour | TCU | 66 | 62 | 9924096 | 61 | 10 | 9924096 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | <0.10 | 9923911 | <0.10 | 0.10 | 9924889 | <0.10 | 0.10 | 9924889 |
| Nitrate + Nitrite (N) | mg/L | 0.096 | 0.091 | 9924098 | 0.099 | 0.050 | 9924098 | | | |
| Nitrite (N) | mg/L | <0.010 | <0.010 | 9924099 | <0.010 | 0.010 | 9924099 | | | |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.053 | <0.050 | 9925576 | 0.052 | 0.050 | 9925576 | | | |
| Total Organic Carbon (C) | mg/L | 8.2 | 8.0 | 9923682 | 7.6 | 0.50 | 9923682 | | | |
| Orthophosphate (P) | mg/L | <0.010 | <0.010 | 9924097 | <0.010 | 0.010 | 9924097 | | | |
| pH | pH | 6.98 | 7.04 | 9923904 | 7.02 | | 9924883 | 7.01 | | 9924883 |
| Reactive Silica (SiO2) | mg/L | 3.6 | 3.0 | 9924094 | 3.1 | 0.50 | 9924094 | | | |
| Total Suspended Solids | mg/L | 8.6 | 7.4 | 9923221 | <1.0 | 1.0 | 9923221 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | <2.0 | 9924091 | <2.0 | 2.0 | 9924091 | | | |
| Turbidity | NTU | 4.4 | 0.98 | 9925177 | 0.65 | 0.10 | 9925177 | | | |
| Conductivity | uS/cm | 31 | 34 | 9923907 | 32 | 1.0 | 9924885 | 32 | 1.0 | 9924885 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C549367
Report Date: 2025/05/12

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9922902 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9922870 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C549367
Report Date: 2025/05/12

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 97 | 86 | 88 | 5.0 | 9924647 |
| Total Aluminum (Al) | ug/L | 190 | 130 | 100 | 5.0 | 9922428 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9924647 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922428 |
| Dissolved Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9924647 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922428 |
| Dissolved Barium (Ba) | ug/L | 5.1 | 5.6 | 5.3 | 1.0 | 9924647 |
| Total Barium (Ba) | ug/L | 6.8 | 5.8 | 4.9 | 1.0 | 9922428 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9924647 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9922428 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9924647 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9922428 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9924647 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9922428 |
| Dissolved Calcium (Ca) | ug/L | 3400 | 3600 | 3500 | 100 | 9924647 |
| Total Calcium (Ca) | ug/L | 3300 | 3600 | 3300 | 100 | 9922428 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9924647 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922428 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9924647 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9922428 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9924647 |
| Total Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922428 |
| Dissolved Iron (Fe) | ug/L | 74 | 65 | 67 | 50 | 9924647 |
| Total Iron (Fe) | ug/L | 300 | 160 | 110 | 50 | 9922428 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9924647 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922428 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Magnesium (Mg) | ug/L | 650 | 690 | 660 | 100 | 9924647 |
| Total Magnesium (Mg) | ug/L | 670 | 720 | 640 | 100 | 9922428 |
| Dissolved Manganese (Mn) | ug/L | 5.1 | 4.8 | 5.3 | 2.0 | 9924647 |

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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 44 | 15 | 8.8 | 2.0 | 9922428 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9924647 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9922428 |
| Dissolved Potassium (K) | ug/L | 140 | 160 | 150 | 100 | 9924647 |
| Total Potassium (K) | ug/L | 170 | 200 | 170 | 100 | 9922428 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9924647 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922428 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9924647 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9922428 |
| Dissolved Sodium (Na) | ug/L | 2100 | 2300 | 2100 | 100 | 9924647 |
| Total Sodium (Na) | ug/L | 2100 | 2500 | 2100 | 100 | 9922428 |
| Dissolved Strontium (Sr) | ug/L | 12 | 13 | 12 | 2.0 | 9924647 |
| Total Strontium (Sr) | ug/L | 12 | 13 | 11 | 2.0 | 9922428 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9924647 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9922428 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Titanium (Ti) | ug/L | 6.0 | 2.3 | <2.0 | 2.0 | 9922428 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9924647 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9922428 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9924647 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922428 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9924647 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9922428 |

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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.0 | 0.7 | 0.7 | 0.6 | 9925833 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 1 | 1 | 9920922 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C549367
Report Date: 2025/05/12

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AQMB28 | | | AQMB28 | | | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | | | 2025/04/30 11:20 | | | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9923274 | <0.050 | 0.050 | 9923274 | <0.050 | <0.050 | 0.050 | 9923274 |
| 2-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9923274 | <0.050 | 0.050 | 9923274 | <0.050 | <0.050 | 0.050 | 9923274 |
| Acenaphthene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Acenaphthylene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Anthracene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(a)anthracene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(a)pyrene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(b)fluoranthene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | 0.020 | 9921295 | | | | <0.020 | <0.020 | 0.020 | 9921295 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(j)fluoranthene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Benzo(k)fluoranthene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Chrysene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Fluoranthene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Fluorene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Naphthalene | ug/L | <0.20 | 0.20 | 9923274 | <0.20 | 0.20 | 9923274 | <0.20 | <0.20 | 0.20 | 9923274 |
| Perylene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Phenanthrene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| Pyrene | ug/L | <0.010 | 0.010 | 9923274 | <0.010 | 0.010 | 9923274 | <0.010 | <0.010 | 0.010 | 9923274 |
| **Surrogate Recovery (%)** | | | | | | | | | | | |
| D10-Anthracene | % | 94 | | 9923274 | 92 | | 9923274 | 95 | 99 | | 9923274 |
| D14-Terphenyl | % | 89 (1) | | 9923274 | 89 (1) | | 9923274 | 92 | 94 (1) | | 9923274 |
| D8-Acenaphthylene | % | 93 | | 9923274 | 93 | | 9923274 | 100 | 101 | | 9923274 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922298 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9922298 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9922298 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9922298 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9922298 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922298 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9922298 |

RDL = Reportable Detection Limit
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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9922298 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9922298 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9922298 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 95 | 97 | 94 | | 9922298 |
| D4-1,2-Dichloroethane | % | 102 | 105 | 103 | | 9922298 |
| D8-Toluene | % | 97 | 97 | 97 | | 9922298 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AQMB28 | AQMB29 | AQMB30 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/04/30 11:20 | 2025/04/30 11:50 | 2025/04/30 12:48 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9922092 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9922092 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9922092 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9922092 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9922092 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9922265 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9922265 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9922265 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9921093 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9922265 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9922265 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 81 | 82 | 77 | | 9922265 |
| n-Dotriacontane - Extractable | % | 90 | 93 | 87 | | 9922265 |
| Isobutylbenzene - Volatile | % | 97 | 97 | 97 | | 9922092 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 4.0°C |

Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.

Sample AQMB28 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQMB29 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQMB30 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9922092 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/05/05 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/05/05 | | 88 | % | 70 - 130 |
| | | | Toluene | 2025/05/05 | | 89 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/05 | | 89 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/05 | | 92 | % | 70 - 130 |
| 9922092 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/05/05 | | 99 | % | 70 - 130 |
| | | | Benzene | 2025/05/05 | | 95 | % | 70 - 130 |
| | | | Toluene | 2025/05/05 | | 100 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/05 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/05 | | 103 | % | 70 - 130 |
| 9922092 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/05/05 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/05/05 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/05/05 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/05/05 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/05/05 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/05/05 | <0.090 | | mg/L | |
| 9922092 | THL | RPD | Benzene | 2025/05/05 | NC | | % | 40 |
| | | | Toluene | 2025/05/05 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/05 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/05 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/05/05 | NC | | % | 40 |
| 9922265 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/05/06 | | 90 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/06 | | 116 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/06 | | 103 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/06 | | 92 | % | 70 - 130 |
| 9922265 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/05/06 | | 90 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/06 | | 113 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/06 | | 105 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/06 | | 105 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/06 | | 93 | % | 70 - 130 |
| 9922265 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/05/06 | | 80 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/06 | | 95 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/06 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/05/06 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/05/06 | <0.090 | | mg/L | |
| 9922265 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/05/06 | 25 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/05/06 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/06 | NC | | % | 40 |
| 9922298 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/06 | | 104 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/06 | | 100 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/06 | | 105 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/06 | | 100 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/06 | | 109 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/06 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/06 | | 102 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloropropane | 2025/05/06 | | 100 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/06 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/06 | | 96 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/06 | | 93 | % | 70 - 130 |
| | | | Benzene | 2025/05/06 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | Bromoform | 2025/05/06 | | 108 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/06 | | 123 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/06 | | 95 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/06 | | 108 | % | 60 - 140 |
| | | | Chloroform | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/06 | | 105 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/06 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/06 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/06 | | 95 | % | 70 - 130 |
| | | | Styrene | 2025/05/06 | | 93 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/06 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/05/06 | | 94 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/06 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/06 | | 107 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/06 | | 110 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/06 | | 97 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/06 | | 96 | % | 70 - 130 |
| 9922298 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/06 | | 107 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/06 | | 105 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/06 | | 107 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/06 | | 107 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/06 | | 109 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/06 | | 103 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/06 | | 108 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/06 | | 105 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/06 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/06 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/05/06 | | 107 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | Bromoform | 2025/05/06 | | 109 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/06 | | 125 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/06 | | 110 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/06 | | 115 | % | 60 - 140 |
| | | | Chloroform | 2025/05/06 | | 104 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Chloromethane | 2025/05/06 | | 111 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/06 | | 103 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/06 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/06 | | 103 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/06 | | 99 | % | 70 - 130 |
| | | | Styrene | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | Toluene | 2025/05/06 | | 102 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/06 | | 98 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/06 | | 115 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/06 | | 118 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/06 | | 106 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/06 | | 106 | % | 70 - 130 |
| 9922298 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/05/06 | | 97 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/06 | | 101 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/06 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/06 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/05/06 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/05/06 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/05/06 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/06 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/05/06 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/05/06 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/05/06 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/05/06 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/05/06 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/05/06 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/05/06 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/05/06 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/05/06 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Benzene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/05/06 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/05/06 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/05/06 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/05/06 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/05/06 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/05/06 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/05/06 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/05/06 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/06 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Styrene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Toluene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/05/06 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/06 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/05/06 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/05/06 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/05/06 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Xylenes | 2025/05/06 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/05/06 | <1.0 | | ug/L | |
| 9922298 | A1M | RPD | 1,1-Dichloroethane | 2025/05/06 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/05/06 | 1.2 | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/05/06 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/05/06 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/06 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/05/06 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/05/06 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/05/06 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/05/06 | 4.1 (1) | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/05/06 | 3.7 | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/05/06 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/05/06 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/05/06 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/05/06 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/05/06 | NC | | % | 40 |
| | | | Benzene | 2025/05/06 | 2.1 | | % | 40 |
| | | | Bromodichloromethane | 2025/05/06 | NC | | % | 40 |
| | | | Bromoform | 2025/05/06 | NC | | % | 40 |
| | | | Bromomethane | 2025/05/06 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/05/06 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/05/06 | NC | | % | 40 |
| | | | Chloroethane | 2025/05/06 | NC | | % | 40 |
| | | | Chloroform | 2025/05/06 | NC | | % | 40 |
| | | | Chloromethane | 2025/05/06 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/05/06 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/06 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/06 | 5.3 | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/06 | NC | | % | 40 |
| | | | Styrene | 2025/05/06 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/05/06 | 3.5 (1) | | % | 40 |
| | | | Toluene | 2025/05/06 | 2.4 | | % | 40 |
| | | | Trichloroethylene | 2025/05/06 | 3.7 (1) | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/06 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/05/06 | 2.0 | | % | 40 |
| | | | o-Xylene | 2025/05/06 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/05/06 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/06 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/05/06 | NC | | % | 40 |
| 9922428 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/05/07 | | 110 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/07 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/07 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/07 | | 104 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/07 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/07 | | 108 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/07 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/07 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Iron (Fe) | 2025/05/07 | | NC | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/07 | | 99 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/07 | | 108 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/07 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/07 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/07 | | 110 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/07 | | 108 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/07 | | 102 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/07 | | 106 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/07 | | 103 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/07 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/07 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/07 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/07 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/07 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/07 | | 107 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/07 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/07 | | 102 | % | 80 - 120 |
| 9922428 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/05/06 | | 104 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/06 | | 108 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/06 | | 104 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/06 | | 100 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/06 | | 103 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/06 | | 102 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/06 | | 107 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/06 | | 105 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/06 | | 105 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/06 | | 106 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/06 | | 106 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/06 | | 104 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/06 | | 109 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/06 | | 101 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/06 | | 108 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/06 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/06 | | 104 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/06 | | 106 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/06 | | 106 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/06 | | 110 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/06 | | 103 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/06 | | 107 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/06 | | 103 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/06 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/06 | | 105 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/06 | | 103 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/06 | | 107 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/06 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/06 | | 108 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/06 | | 107 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/06 | | 105 | % | 80 - 120 |
| 9922428 | MOA | Method Blank | Total Aluminum (Al) | 2025/05/06 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/05/06 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Arsenic (As) | 2025/05/06 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/05/06 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/05/06 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/05/06 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/05/06 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/05/06 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/05/06 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/05/06 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/05/06 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/05/06 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/05/06 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/05/06 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/05/06 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/05/06 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/05/06 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/05/06 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/05/06 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/05/06 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/05/06 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/05/06 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/05/06 | <5.0 | | ug/L | |
| 9922428 | MOA | RPD | Total Aluminum (Al) | 2025/05/07 | 7.1 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/05/07 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/05/07 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/05/07 | 0.75 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/05/07 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/05/07 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/05/07 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/05/07 | 3.6 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/05/07 | 2.4 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/05/07 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/05/07 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/05/07 | 6.0 | | % | 20 |
| | | | Total Iron (Fe) | 2025/05/07 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/05/07 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/05/07 | 7.7 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/05/07 | 2.6 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/05/07 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/05/07 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/05/07 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/05/07 | 3.4 | | % | 20 |
| | | | Total Selenium (Se) | 2025/05/07 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/05/07 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/05/07 | 3.3 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Strontium (Sr) | 2025/05/07 | 7.5 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/05/07 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/05/07 | 0.87 | | % | 20 |
| | | | Total Titanium (Ti) | 2025/05/07 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/05/07 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/05/07 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/05/07 | NC | | % | 20 |
| 9922870 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/05/07 | | 95 | % | 80 - 120 |
| 9922870 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/05/07 | | 96 | % | 80 - 120 |
| 9922870 | JEP | Method Blank | Total Mercury (Hg) | 2025/05/07 | <0.013 | | ug/L | |
| 9922870 | JEP | RPD | Total Mercury (Hg) | 2025/05/07 | NC | | % | 20 |
| 9922902 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/05/07 | | 96 | % | 80 - 120 |
| 9922902 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/05/07 | | 90 | % | 80 - 120 |
| 9922902 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/05/07 | <0.013 | | ug/L | |
| 9922902 | JEP | RPD | Dissolved Mercury (Hg) | 2025/05/07 | NC | | % | 20 |
| 9923221 | ISM | QC Standard | Total Suspended Solids | 2025/05/07 | | 100 | % | 80 - 120 |
| 9923221 | ISM | Method Blank | Total Suspended Solids | 2025/05/07 | <1.0 | | mg/L | |
| 9923221 | ISM | RPD | Total Suspended Solids | 2025/05/07 | 0 | | % | 20 |
| 9923274 | EPA | Matrix Spike [AQMB29-07] | D10-Anthracene | 2025/05/07 | | 96 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/07 | | 91 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/07 | | 98 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/07 | | 99 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/07 | | 108 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/07 | | 100 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/07 | | 107 | % | 50 - 130 |
| | | | Anthracene | 2025/05/07 | | 109 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/07 | | 91 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/07 | | 95 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/07 | | 103 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/07 | | 83 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/07 | | 106 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/07 | | 97 | % | 50 - 130 |
| | | | Chrysene | 2025/05/07 | | 93 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/07 | | 78 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/07 | | 96 | % | 50 - 130 |
| | | | Fluorene | 2025/05/07 | | 98 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/07 | | 84 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/07 | | 106 | % | 50 - 130 |
| | | | Perylene | 2025/05/07 | | 90 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/07 | | 96 | % | 50 - 130 |
| | | | Pyrene | 2025/05/07 | | 94 | % | 50 - 130 |
| 9923274 | EPA | Spiked Blank | D10-Anthracene | 2025/05/07 | | 96 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/07 | | 93 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/07 | | 101 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/07 | | 106 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/07 | | 116 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/07 | | 106 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/07 | | 114 | % | 50 - 130 |
| | | | Anthracene | 2025/05/07 | | 116 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/07 | | 97 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/07 | | 87 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzo(b)fluoranthene | 2025/05/07 | | 107 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/07 | | 61 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/07 | | 100 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/07 | | 86 | % | 50 - 130 |
| | | | Chrysene | 2025/05/07 | | 97 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/07 | | 59 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/07 | | 104 | % | 50 - 130 |
| | | | Fluorene | 2025/05/07 | | 105 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/07 | | 68 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/07 | | 113 | % | 50 - 130 |
| | | | Perylene | 2025/05/07 | | 73 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/07 | | 103 | % | 50 - 130 |
| | | | Pyrene | 2025/05/07 | | 101 | % | 50 - 130 |
| 9923274 | EPA | Method Blank | D10-Anthracene | 2025/05/07 | | 102 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/07 | | 92 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/07 | | 106 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/07 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/05/07 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/05/07 | <0.20 | | ug/L | |
| | | | Perylene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/05/07 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/05/07 | <0.010 | | ug/L | |
| 9923274 | EPA | RPD [AQMB28-07] | 1-Methylnaphthalene | 2025/05/07 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/05/07 | NC | | % | 40 |
| | | | Acenaphthene | 2025/05/07 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/05/07 | NC | | % | 40 |
| | | | Anthracene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/05/07 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/05/07 | NC | | % | 40 |
| | | | Chrysene | 2025/05/07 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/05/07 | NC | | % | 40 |
| | | | Fluoranthene | 2025/05/07 | NC | | % | 40 |
| | | | Fluorene | 2025/05/07 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/07 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Naphthalene | 2025/05/07 | NC | | % | 40 |
| | | | Perylene | 2025/05/07 | NC | | % | 40 |
| | | | Phenanthrene | 2025/05/07 | NC | | % | 40 |
| | | | Pyrene | 2025/05/07 | NC | | % | 40 |
| 9923682 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/07 | | 99 | % | 85 - 115 |
| 9923682 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/07 | | 97 | % | 80 - 120 |
| 9923682 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/07 | <0.50 | | mg/L | |
| 9923682 | SSI | RPD | Total Organic Carbon (C) | 2025/05/07 | 0.14 | | % | 15 |
| 9923904 | M2C | Spiked Blank | pH | 2025/05/07 | | 100 | % | 97 - 103 |
| 9923904 | M2C | RPD | pH | 2025/05/07 | 0.15 | | % | N/A |
| 9923907 | M2C | Spiked Blank | Conductivity | 2025/05/07 | | 99 | % | 80 - 120 |
| 9923907 | M2C | Method Blank | Conductivity | 2025/05/07 | <1.0 | | uS/cm | |
| 9923907 | M2C | RPD | Conductivity | 2025/05/07 | 0.12 | | % | 10 |
| 9923908 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/07 | | 97 | % | 80 - 120 |
| 9923908 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/07 | <2.0 | | mg/L | |
| 9923908 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/05/07 | 5.9 | | % | 20 |
| 9923911 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/05/07 | | 108 | % | 80 - 120 |
| 9923911 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/07 | | 95 | % | 80 - 120 |
| 9923911 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/07 | <0.10 | | mg/L | |
| 9923911 | M2C | RPD | Dissolved Fluoride (F-) | 2025/05/07 | NC | | % | 20 |
| 9924089 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/05/07 | | 89 | % | 80 - 120 |
| 9924089 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/05/07 | | 89 | % | 80 - 120 |
| 9924089 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/05/07 | <1.0 | | mg/L | |
| 9924089 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/05/07 | 0.13 | | % | 20 |
| 9924091 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/05/07 | | 95 | % | 80 - 120 |
| 9924091 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/05/07 | | 91 | % | 80 - 120 |
| 9924091 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/05/07 | <2.0 | | mg/L | |
| 9924091 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/05/07 | 3.9 | | % | 20 |
| 9924094 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/05/07 | | 91 | % | 80 - 120 |
| 9924094 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/05/07 | | 92 | % | 80 - 120 |
| 9924094 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/05/07 | <0.50 | | mg/L | |
| 9924094 | MCN | RPD | Reactive Silica (SiO2) | 2025/05/07 | 1.7 | | % | 20 |
| 9924096 | MCN | Spiked Blank | Colour | 2025/05/08 | | 104 | % | 80 - 120 |
| 9924096 | MCN | Method Blank | Colour | 2025/05/08 | <5.0 | | TCU | |
| 9924096 | MCN | RPD | Colour | 2025/05/08 | 4.4 | | % | 20 |
| 9924097 | MCN | Matrix Spike | Orthophosphate (P) | 2025/05/07 | | 88 | % | 80 - 120 |
| 9924097 | MCN | Spiked Blank | Orthophosphate (P) | 2025/05/07 | | 88 | % | 80 - 120 |
| 9924097 | MCN | Method Blank | Orthophosphate (P) | 2025/05/07 | <0.010 | | mg/L | |
| 9924097 | MCN | RPD | Orthophosphate (P) | 2025/05/07 | NC | | % | 20 |
| 9924098 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/05/08 | | 97 | % | 80 - 120 |
| 9924098 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/05/08 | | 102 | % | 80 - 120 |
| 9924098 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/05/08 | <0.050 | | mg/L | |
| 9924098 | MCN | RPD | Nitrate + Nitrite (N) | 2025/05/08 | NC | | % | 20 |
| 9924099 | MCN | Matrix Spike | Nitrite (N) | 2025/05/08 | | 99 | % | 80 - 120 |
| 9924099 | MCN | Spiked Blank | Nitrite (N) | 2025/05/08 | | 101 | % | 80 - 120 |
| 9924099 | MCN | Method Blank | Nitrite (N) | 2025/05/08 | <0.010 | | mg/L | |
| 9924099 | MCN | RPD | Nitrite (N) | 2025/05/08 | NC | | % | 20 |
| 9924647 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/05/08 | | NC | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/08 | | 105 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/08 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/08 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Bismuth (Bi) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/08 | | 98 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/08 | | 97 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/08 | | 96 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/08 | | 97 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/08 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/08 | | 96 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/08 | | 106 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/08 | | NC | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/08 | | 96 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/08 | | 110 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/08 | | 112 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/08 | | 98 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/08 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/08 | | 99 | % | 80 - 120 |
| 9924647 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/08 | | 104 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/08 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/08 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/08 | | 104 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/08 | | 98 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/08 | | 104 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/08 | | 104 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/08 | | 107 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/08 | | 101 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/08 | | 115 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/08 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/08 | | 103 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/08 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Tin (Sn) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/08 | | 104 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/08 | | 109 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/08 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/08 | | 99 | % | 80 - 120 |
| 9924647 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/05/08 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/05/08 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/05/08 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/05/08 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/05/08 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/05/08 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/05/08 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/05/08 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/05/08 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/05/08 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/05/08 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/05/08 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/05/08 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/05/08 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/05/08 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/05/08 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/05/08 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/05/08 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/05/08 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/05/08 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/05/08 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/05/08 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/05/08 | <5.0 | | ug/L | |
| 9924647 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/05/08 | 0.75 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/05/08 | 0.48 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/05/08 | 0.87 | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/05/08 | 1.6 | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/05/08 | 2.6 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/05/08 | 3.4 | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/05/08 | 3.2 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/05/08 | 14 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/05/08 | 2.0 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/05/08 | 0.49 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Molybdenum (Mo) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/05/08 | 0.035 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/05/08 | 1.7 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/05/08 | 4.4 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/05/08 | 2.4 | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/05/08 | 1.1 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/05/08 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/05/08 | 0.036 | | % | 20 |
| 9924883 | M2C | Spiked Blank | pH | 2025/05/08 | | 99 | % | 97 - 103 |
| 9924883 | M2C | RPD [AQMB30-02] | pH | 2025/05/08 | 0.12 | | % | N/A |
| 9924885 | M2C | Spiked Blank | Conductivity | 2025/05/08 | | 99 | % | 80 - 120 |
| 9924885 | M2C | Method Blank | Conductivity | 2025/05/08 | <1.0 | | uS/cm | |
| 9924885 | M2C | RPD [AQMB30-02] | Conductivity | 2025/05/08 | 0.31 | | % | 10 |
| 9924887 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/08 | | 96 | % | 80 - 120 |
| 9924887 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/08 | <2.0 | | mg/L | |
| 9924887 | M2C | RPD [AQMB30-02] | Total Alkalinity (Total as CaCO3) | 2025/05/08 | 16 | | % | 20 |
| 9924889 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/05/08 | | 88 | % | 80 - 120 |
| 9924889 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/08 | | 96 | % | 80 - 120 |
| 9924889 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/08 | <0.10 | | mg/L | |
| 9924889 | M2C | RPD [AQMB30-02] | Dissolved Fluoride (F-) | 2025/05/08 | NC | | % | 20 |
| 9925177 | M2C | QC Standard | Turbidity | 2025/05/08 | | 101 | % | 80 - 120 |
| 9925177 | M2C | Spiked Blank | Turbidity | 2025/05/08 | | 102 | % | 80 - 120 |
| 9925177 | M2C | Method Blank | Turbidity | 2025/05/08 | <0.10 | | NTU | |
| 9925177 | M2C | RPD | Turbidity | 2025/05/08 | 6.1 | | % | 20 |
| 9925576 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/05/09 | | 97 | % | 80 - 120 |
| 9925576 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/05/09 | | 101 | % | 80 - 120 |
| 9925576 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/05/09 | <0.050 | | mg/L | |
| 9925576 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/05/09 | NC | | % | 20 |
| 9925833 | IH0 | Method Blank | Carbon Dioxide | 2025/05/09 | <0.6 | | L/m3 | |
| 9925833 | IH0 | RPD | Carbon Dioxide | 2025/05/09 | 7.5 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Elevated VOC RDL(s) due to sample dilution.



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Bureau Veritas Job #: C549367
Report Date: 2025/05/12

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Jim Slade

PROJECT: 24-10333

AGAT WORK ORDER: 25K284074

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: May 06, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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# Certificate of Analysis

AGAT WORK ORDER: 25K284074

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Jim Slade

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-05-01

DATE REPORTED: 2025-05-06

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-04-30 11:20 | 2025-04-30 11:20 | 2025-04-30 11:20 |
| Parameter | Unit | G / S | RDL | | 6703601 | 6703602 | 6703603 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 225 | 248 | 167 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 20 | 5 | 8 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 2.25 | 2.48 | 1.67 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.20 | 0.05 | 0.08 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6703601-6703603 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K284074

PROJECT: 24-10333

ATTENTION TO: Jim Slade

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: May 06, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6703321 | < 1 | < 1 | 0.0% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6703321 | < 1 | < 1 | 0.0% | < 1 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K284074

PROJECT: 24-10333

ATTENTION TO: Jim Slade

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/21**
Report #: R8541790
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C552656**
**Received: 2025/05/09, 09:43**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/05/16 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/05/15 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/05/13 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/05/20 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/05/15 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/05/20 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/05/15 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/05/12 | 2025/05/12 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/05/15 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/05/09 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/05/13 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/05/15 | 2025/05/15 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/05/15 | 2025/05/15 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/05/16 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/05/12 | 2025/05/13 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/05/20 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/05/16 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/05/16 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/05/21 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/05/20 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/05/21 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 2 | 2025/05/12 | 2025/05/12 | ATL SOP 00103 | EPA 8270E R6 m |
| PAH in Water by GC/MS (SIM) | 1 | 2025/05/12 | 2025/05/13 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/05/15 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/05/20 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/05/20 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/05/20 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/05/20 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/05/20 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/05/20 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/05/13 | ATL SOP 00203 | SM 24 5310B m |



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/21**
Report #: R8541790
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C552656**
**Received: 2025/05/09, 09:43**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/05/14 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/05/13 | 2025/05/15 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/05/16 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/05/12 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/05/13 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/21**
Report #: R8541790
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C552656**
**Received: 2025/05/09, 09:43**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.

Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQSB09 | | | AQSB09 | | | AQSB10 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | | | 2025/05/07 12:00 | | | 2025/05/07 11:33 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.630 | N/A | 9925566 | | | | 0.390 | N/A | 9925566 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 26 | 1.0 | 9925562 | | | | 15 | 1.0 | 9925562 |
| Calculated TDS | mg/L | 35 | 1.0 | 9925571 | | | | 22 | 1.0 | 9925571 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9925562 | | | | <1.0 | 1.0 | 9925562 |
| Cation Sum | me/L | 0.570 | N/A | 9925566 | | | | 0.360 | N/A | 9925566 |
| Hardness (CaCO3) | mg/L | 23 | 1.0 | 9925564 | | | | 13 | 1.0 | 9925564 |
| Ion Balance (% Difference) | % | 5.00 | N/A | 9925565 | | | | 4.00 | N/A | 9925565 |
| Langelier Index (@ 20C) | N/A | -1.64 | | 9925569 | | | | -2.39 | | 9925569 |
| Langelier Index (@ 4C) | N/A | -1.89 | | 9925570 | | | | -2.64 | | 9925570 |
| Nitrate (N) | mg/L | 0.15 | 0.050 | 9925567 | | | | 0.075 | 0.050 | 9925567 |
| Saturation pH (@ 20C) | N/A | 9.03 | | 9925569 | | | | 9.53 | | 9925569 |
| Saturation pH (@ 4C) | N/A | 9.28 | | 9925570 | | | | 9.78 | | 9925570 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 26 | 2.0 | 9929402 | | | | 15 | 2.0 | 9929402 |
| Dissolved Chloride (Cl-) | mg/L | 3.6 | 1.0 | 9930402 | | | | 3.2 | 1.0 | 9930402 |
| Colour | TCU | 55 | 10 | 9930409 | | | | 59 | 25 | 9930409 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9929403 | | | | <0.10 | 0.10 | 9929403 |
| Nitrate + Nitrite (N) | mg/L | 0.15 | 0.050 | 9930411 | | | | 0.075 | 0.050 | 9930411 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9930412 | | | | <0.010 | 0.010 | 9930412 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9929479 | | | | <0.050 | 0.050 | 9929479 |
| Total Organic Carbon (C) | mg/L | 6.4 | 0.50 | 9927522 | 6.3 | 0.50 | 9927522 | 7.7 | 0.50 | 9927415 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9930410 | | | | <0.010 | 0.010 | 9930410 |
| pH | pH | 7.38 | | 9929394 | | | | 7.14 | | 9929394 |
| Reactive Silica (SiO2) | mg/L | 3.5 | 0.50 | 9930408 | | | | 2.2 | 0.50 | 9930408 |
| Total Suspended Solids | mg/L | 4.2 | 1.0 | 9927618 | | | | 5.6 | 1.0 | 9927618 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9930407 | | | | <2.0 | 2.0 | 9930407 |
| Turbidity | NTU | 0.57 | 0.10 | 9930386 | | | | 0.72 | 0.10 | 9930391 |
| Conductivity | uS/cm | 55 | 1.0 | 9929400 | | | | 35 | 1.0 | 9929400 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQSB11 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/05/07 10:29 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | |
| Anion Sum | me/L | 0.360 | N/A | 9925566 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 13 | 1.0 | 9925562 |
| Calculated TDS | mg/L | 23 | 1.0 | 9925571 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9925562 |
| Cation Sum | me/L | 0.440 | N/A | 9925566 |
| Hardness (CaCO3) | mg/L | 17 | 1.0 | 9925564 |
| Ion Balance (% Difference) | % | 10.0 | N/A | 9925565 |
| Langelier Index (@ 20C) | N/A | -2.17 | | 9925569 |
| Langelier Index (@ 4C) | N/A | -2.42 | | 9925570 |
| Nitrate (N) | mg/L | 0.084 | 0.050 | 9925567 |
| Saturation pH (@ 20C) | N/A | 9.45 | | 9925569 |
| Saturation pH (@ 4C) | N/A | 9.70 | | 9925570 |
| **Inorganics** | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 13 | 2.0 | 9929402 |
| Dissolved Chloride (Cl-) | mg/L | 3.2 | 1.0 | 9930402 |
| Colour | TCU | 59 | 25 | 9930409 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9929403 |
| Nitrate + Nitrite (N) | mg/L | 0.084 | 0.050 | 9930411 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9930412 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9929479 |
| Total Organic Carbon (C) | mg/L | 7.4 | 0.50 | 9927514 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9930410 |
| pH | pH | 7.28 | | 9929394 |
| Reactive Silica (SiO2) | mg/L | 2.5 | 0.50 | 9930408 |
| Total Suspended Solids | mg/L | 1.2 | 1.0 | 9927618 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9930407 |
| Turbidity | NTU | 0.78 | 0.10 | 9930391 |
| Conductivity | uS/cm | 42 | 1.0 | 9929400 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AQSB09 | | | AQSB09 | | | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | | | 2025/05/07 12:00 | | | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | 0.013 | 9928380 | <0.013 | 0.013 | 9928380 | <0.013 | <0.013 | 0.013 | 9928380 |
| Total Mercury (Hg) | ug/L | <0.013 | 0.013 | 9928367 | | | | <0.013 | <0.013 | 0.013 | 9928367 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 59 | 72 | 75 | 5.0 | 9929242 |
| Total Aluminum (Al) | ug/L | 81 | 130 | 87 | 5.0 | 9926803 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9929242 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926803 |
| Dissolved Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9929242 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926803 |
| Dissolved Barium (Ba) | ug/L | 8.0 | 5.0 | 8.4 | 1.0 | 9929242 |
| Total Barium (Ba) | ug/L | 7.2 | 5.8 | 8.1 | 1.0 | 9926803 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9929242 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9926803 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9929242 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9926803 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9929242 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926803 |
| Dissolved Calcium (Ca) | ug/L | 7100 | 3800 | 5100 | 100 | 9929242 |
| Total Calcium (Ca) | ug/L | 6800 | 3900 | 5200 | 100 | 9926803 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9929242 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926803 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9929242 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9926803 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9929242 |
| Total Copper (Cu) | ug/L | <0.50 | 0.59 | <0.50 | 0.50 | 9926803 |
| Dissolved Iron (Fe) | ug/L | 110 | 54 | 63 | 50 | 9929242 |
| Total Iron (Fe) | ug/L | 170 | 220 | 110 | 50 | 9926803 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9929242 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926803 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Magnesium (Mg) | ug/L | 1200 | 750 | 920 | 100 | 9929242 |
| Total Magnesium (Mg) | ug/L | 1100 | 740 | 880 | 100 | 9926803 |
| Dissolved Manganese (Mn) | ug/L | 18 | 3.0 | 5.0 | 2.0 | 9929242 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 25 | 36 | 11 | 2.0 | 9926803 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9929242 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9926803 |
| Dissolved Potassium (K) | ug/L | 200 | 220 | 170 | 100 | 9929242 |
| Total Potassium (K) | ug/L | 160 | 280 | 120 | 100 | 9926803 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9929242 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926803 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9929242 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9926803 |
| Dissolved Sodium (Na) | ug/L | 2600 | 2300 | 2400 | 100 | 9929242 |
| Total Sodium (Na) | ug/L | 2600 | 2400 | 2400 | 100 | 9926803 |
| Dissolved Strontium (Sr) | ug/L | 23 | 14 | 18 | 2.0 | 9929242 |
| Total Strontium (Sr) | ug/L | 22 | 13 | 18 | 2.0 | 9926803 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9929242 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9926803 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9929242 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9926803 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9929242 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926803 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9929242 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9926803 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AQSB09 | | | AQSB09 | | | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | | | 2025/05/07 12:00 | | | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 0.8 | 0.6 | 9929761 | 0.9 | 0.6 | 9929761 | <0.6 | <0.6 | 0.6 | 9929761 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9925976 | | | | <1 | <1 | 1 | 9925977 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | | AQSB11 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9926656 | <0.050 | 0.050 | 9926656 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9926656 | <0.050 | 0.050 | 9926656 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9925673 | | | |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9926656 | <0.20 | 0.20 | 9926656 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9926656 | <0.010 | 0.010 | 9926656 |
| **Surrogate Recovery (%)** | | | | | | | | | |
| D10-Anthracene | % | 85 | 87 | 89 | | 9926656 | 90 | | 9926656 |
| D14-Terphenyl | % | 86 | 86 | 89 | | 9926656 | 90 | | 9926656 |
| D8-Acenaphthylene | % | 86 | 85 | 90 | | 9926656 | 87 | | 9926656 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926995 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9926995 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9926995 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9926995 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9926995 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926995 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9926995 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9926995 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9926995 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9926995 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 97 | 98 | 98 | | 9926995 |
| D4-1,2-Dichloroethane | % | 99 | 100 | 100 | | 9926995 |
| D8-Toluene | % | 96 | 97 | 96 | | 9926995 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AQSB09 | AQSB10 | AQSB11 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/07 12:00 | 2025/05/07 11:33 | 2025/05/07 10:29 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9927011 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9927011 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9927011 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9927011 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9927011 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9926709 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9926709 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9926709 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9925677 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9926709 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9926709 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 92 | 97 | 93 | | 9926709 |
| n-Dotriacontane - Extractable | % | 93 | 99 | 95 | | 9926709 |
| Isobutylbenzene - Volatile | % | 107 | 106 | 106 | | 9927011 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 7.7°C |

Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.

Sample AQSB11 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9926656 | EPA | Matrix Spike [AQSB10-08] | D10-Anthracene | 2025/05/12 | | 83 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/12 | | 84 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/12 | | 84 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/12 | | 88 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/12 | | 98 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/12 | | 86 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/12 | | 91 | % | 50 - 130 |
| | | | Anthracene | 2025/05/12 | | 92 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/12 | | 89 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/12 | | 86 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/12 | | 92 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/12 | | 79 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/12 | | 96 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/12 | | 95 | % | 50 - 130 |
| | | | Chrysene | 2025/05/12 | | 90 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/12 | | 73 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/12 | | 93 | % | 50 - 130 |
| | | | Fluorene | 2025/05/12 | | 91 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/12 | | 78 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/12 | | 93 | % | 50 - 130 |
| | | | Perylene | 2025/05/12 | | 88 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/12 | | 94 | % | 50 - 130 |
| | | | Pyrene | 2025/05/12 | | 89 | % | 50 - 130 |
| 9926656 | EPA | Spiked Blank | D10-Anthracene | 2025/05/12 | | 99 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/12 | | 99 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/12 | | 100 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/12 | | 107 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/12 | | 118 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/12 | | 105 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/12 | | 110 | % | 50 - 130 |
| | | | Anthracene | 2025/05/12 | | 111 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/12 | | 104 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/12 | | 103 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/12 | | 112 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/12 | | 76 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/12 | | 117 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/12 | | 115 | % | 50 - 130 |
| | | | Chrysene | 2025/05/12 | | 110 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/12 | | 42 (1) | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/12 | | 111 | % | 50 - 130 |
| | | | Fluorene | 2025/05/12 | | 106 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/12 | | 83 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/12 | | 112 | % | 50 - 130 |
| | | | Perylene | 2025/05/12 | | 100 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/12 | | 113 | % | 50 - 130 |
| | | | Pyrene | 2025/05/12 | | 108 | % | 50 - 130 |
| 9926656 | EPA | Method Blank | D10-Anthracene | 2025/05/12 | | 99 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/12 | | 99 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/12 | | 97 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/12 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/05/12 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/05/12 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthylene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/05/12 | <0.20 | | ug/L | |
| | | | Perylene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/05/12 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/05/12 | <0.010 | | ug/L | |
| 9926656 | EPA | RPD [AQSB11-08] | 1-Methylnaphthalene | 2025/05/12 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/05/12 | NC | | % | 40 |
| | | | Acenaphthene | 2025/05/12 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/05/12 | NC | | % | 40 |
| | | | Anthracene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/05/12 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/05/12 | NC | | % | 40 |
| | | | Chrysene | 2025/05/12 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/05/12 | NC | | % | 40 |
| | | | Fluoranthene | 2025/05/12 | NC | | % | 40 |
| | | | Fluorene | 2025/05/12 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/12 | NC | | % | 40 |
| | | | Naphthalene | 2025/05/12 | NC | | % | 40 |
| | | | Perylene | 2025/05/12 | NC | | % | 40 |
| | | | Phenanthrene | 2025/05/12 | NC | | % | 40 |
| | | | Pyrene | 2025/05/12 | NC | | % | 40 |
| 9926709 | YPN | Matrix Spike | Isobutylbenzene - Extractable | 2025/05/12 | | 91 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/12 | | 95 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/12 | | 94 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/12 | | 92 | % | 70 - 130 |
| 9926709 | YPN | Spiked Blank | Isobutylbenzene - Extractable | 2025/05/12 | | 86 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/12 | | 100 | % | 70 - 130 |
| 9926709 | YPN | Method Blank | Isobutylbenzene - Extractable | 2025/05/12 | | 88 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/12 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/05/12 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/05/12 | <0.090 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9926709 | YPN | RPD | >C10-C16 Hydrocarbons | 2025/05/12 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/05/12 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/12 | NC | | % | 40 |
| 9926803 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/13 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/13 | | 95 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/13 | | 91 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/13 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/13 | | 90 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/13 | | 101 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/13 | | 94 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/13 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/13 | | 95 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/13 | | 97 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/13 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/13 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/13 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/13 | | 107 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/13 | | 97 | % | 80 - 120 |
| 9926803 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/13 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/13 | | 94 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/13 | | 90 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/13 | | 90 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/13 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/13 | | 94 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/13 | | 96 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/13 | | 103 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/13 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/13 | | 94 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/13 | | 102 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/13 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Nickel (Ni) | 2025/05/13 | | 101 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/13 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/13 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/13 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/13 | | 100 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/13 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/13 | | 104 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/13 | | 107 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/13 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/13 | | 98 | % | 80 - 120 |
| 9926803 | MTZ | Method Blank | Total Aluminum (Al) | 2025/05/13 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/05/13 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/05/13 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/05/13 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/05/13 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/05/13 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/05/13 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/05/13 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/05/13 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/05/13 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/05/13 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/05/13 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/05/13 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/05/13 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/05/13 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/05/13 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/05/13 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/05/13 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/05/13 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/05/13 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/05/13 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/05/13 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/05/13 | <5.0 | | ug/L | |
| 9926803 | MTZ | RPD | Total Arsenic (As) | 2025/05/13 | 6.3 | | % | 20 |
| | | | Total Iron (Fe) | 2025/05/13 | 4.6 | | % | 20 |
| 9926995 | A1M | Matrix Spike [AQSB09-12] | 4-Bromofluorobenzene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/12 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/12 | | 103 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/12 | | 104 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,2-Trichloroethane | 2025/05/12 | | 105 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/12 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/12 | | 105 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/12 | | 94 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/12 | | 104 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/12 | | 94 | % | 70 - 130 |
| | | | Benzene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | Bromoform | 2025/05/12 | | 109 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/12 | | 126 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/12 | | 107 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/12 | | 109 | % | 60 - 140 |
| | | | Chloroform | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/12 | | 124 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/12 | | 95 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | Styrene | 2025/05/12 | | 96 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/12 | | 95 | % | 70 - 130 |
| | | | Toluene | 2025/05/12 | | 95 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/12 | | 92 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/12 | | 110 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/12 | | 112 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/12 | | 97 | % | 70 - 130 |
| 9926995 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/05/12 | | 101 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/12 | | 95 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/12 | | 105 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/12 | | 104 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/12 | | 109 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/12 | | 101 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/12 | | 94 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/12 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/12 | | 96 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/12 | | 108 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/12 | | 105 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/05/12 | | 104 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromodichloromethane | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | Bromoform | 2025/05/12 | | 104 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/12 | | 126 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/12 | | 112 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/12 | | 113 | % | 60 - 140 |
| | | | Chloroform | 2025/05/12 | | 103 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/12 | | 109 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/12 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/12 | | 102 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/12 | | 98 | % | 70 - 130 |
| | | | Styrene | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | Toluene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/12 | | 97 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/12 | | 116 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/12 | | 118 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/12 | | 103 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/12 | | 104 | % | 70 - 130 |
| 9926995 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/05/12 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/12 | | 93 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/12 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/12 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/05/12 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/05/12 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/05/12 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/12 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/05/12 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/05/12 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/05/12 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/05/12 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/05/12 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/05/12 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/05/12 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/05/12 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/05/12 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Benzene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/05/12 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/05/12 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/05/12 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/05/12 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/05/12 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/05/12 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/05/12 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/05/12 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/12 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/12 | <2.0 | | ug/L | |
| | | | Styrene | 2025/05/12 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Tetrachloroethylene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Toluene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/05/12 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/12 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/05/12 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/05/12 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/05/12 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/05/12 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/05/12 | <1.0 | | ug/L | |
| 9926995 | A1M | RPD | 1,1-Dichloroethane | 2025/05/12 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/05/12 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/05/12 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/05/12 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/12 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/05/12 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/05/12 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/05/12 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/05/12 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/05/12 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/05/12 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/05/12 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/05/12 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/05/12 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/05/12 | NC | | % | 40 |
| | | | Benzene | 2025/05/12 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/05/12 | NC | | % | 40 |
| | | | Bromoform | 2025/05/12 | NC | | % | 40 |
| | | | Bromomethane | 2025/05/12 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/05/12 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/05/12 | NC | | % | 40 |
| | | | Chloroethane | 2025/05/12 | NC | | % | 40 |
| | | | Chloroform | 2025/05/12 | NC | | % | 40 |
| | | | Chloromethane | 2025/05/12 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/05/12 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/12 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/12 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/12 | NC | | % | 40 |
| | | | Styrene | 2025/05/12 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/05/12 | NC | | % | 40 |
| | | | Toluene | 2025/05/12 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/05/12 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/12 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/05/12 | NC | | % | 40 |
| | | | o-Xylene | 2025/05/12 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/05/12 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/12 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/05/12 | NC | | % | 40 |
| 9927011 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/05/13 | | 105 | % | 70 - 130 |
| | | | Benzene | 2025/05/13 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/05/13 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/13 | | 98 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/13 | | 104 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9927011 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/05/13 | | 104 | % | 70 - 130 |
| | | | Benzene | 2025/05/13 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/05/13 | | 100 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/13 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/13 | | 105 | % | 70 - 130 |
| 9927011 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/05/13 | | 108 | % | 70 - 130 |
| | | | Benzene | 2025/05/13 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/05/13 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/05/13 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/05/13 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/05/13 | <0.090 | | mg/L | |
| 9927011 | THL | RPD | Benzene | 2025/05/13 | NC | | % | 40 |
| | | | Toluene | 2025/05/13 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/13 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/13 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/05/13 | NC | | % | 40 |
| 9927415 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/13 | | 95 | % | 85 - 115 |
| 9927415 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/13 | | 97 | % | 80 - 120 |
| 9927415 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/13 | <0.50 | | mg/L | |
| 9927415 | SSI | RPD | Total Organic Carbon (C) | 2025/05/13 | NC | | % | 15 |
| 9927514 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/13 | | 104 | % | 85 - 115 |
| 9927514 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/13 | | 107 | % | 80 - 120 |
| 9927514 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/13 | <0.50 | | mg/L | |
| 9927514 | SSI | RPD | Total Organic Carbon (C) | 2025/05/13 | NC | | % | 15 |
| 9927522 | SSI | Matrix Spike [AQSB09-03] | Total Organic Carbon (C) | 2025/05/13 | | 103 | % | 85 - 115 |
| 9927522 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/13 | | 99 | % | 80 - 120 |
| 9927522 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/13 | <0.50 | | mg/L | |
| 9927522 | SSI | RPD [AQSB09-03] | Total Organic Carbon (C) | 2025/05/13 | 2.3 | | % | 15 |
| 9927618 | RD4 | QC Standard | Total Suspended Solids | 2025/05/15 | | 100 | % | 80 - 120 |
| 9927618 | RD4 | Method Blank | Total Suspended Solids | 2025/05/15 | <1.0 | | mg/L | |
| 9927618 | RD4 | RPD | Total Suspended Solids | 2025/05/15 | 5.1 | | % | 20 |
| 9928367 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/05/15 | | 100 | % | 80 - 120 |
| 9928367 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/05/15 | | 100 | % | 80 - 120 |
| 9928367 | JEP | Method Blank | Total Mercury (Hg) | 2025/05/15 | <0.013 | | ug/L | |
| 9928367 | JEP | RPD | Total Mercury (Hg) | 2025/05/15 | NC | | % | 20 |
| 9928380 | JEP | Matrix Spike [AQSB10-06] | Dissolved Mercury (Hg) | 2025/05/15 | | 96 | % | 80 - 120 |
| 9928380 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/05/15 | | 98 | % | 80 - 120 |
| 9928380 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/05/15 | <0.013 | | ug/L | |
| 9928380 | JEP | RPD [AQSB09-06] | Dissolved Mercury (Hg) | 2025/05/15 | NC | | % | 20 |
| 9929242 | MOA | Matrix Spike | Dissolved Aluminum (Al) | 2025/05/16 | | 104 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/16 | | NC | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/16 | | 97 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/16 | | 96 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/16 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Lead (Pb) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/16 | | 107 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/16 | | NC | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/16 | | 105 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/16 | | 107 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/16 | | 96 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/16 | | 104 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/16 | | 102 | % | 80 - 120 |
| 9929242 | MOA | Spiked Blank | Dissolved Aluminum (Al) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/16 | | 103 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/16 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/16 | | 106 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/16 | | 105 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/16 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/16 | | 108 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/16 | | 99 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/16 | | 97 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/16 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/16 | | 103 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/16 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/16 | | 102 | % | 80 - 120 |
| 9929242 | MOA | Method Blank | Dissolved Aluminum (Al) | 2025/05/16 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/05/16 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/05/16 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Barium (Ba) | 2025/05/16 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/05/16 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/05/16 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/05/16 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/05/16 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/05/16 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/05/16 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/05/16 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/05/16 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/05/16 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/05/16 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/05/16 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/05/16 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/05/16 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/05/16 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/05/16 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/05/16 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/05/16 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/05/16 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/05/16 | <5.0 | | ug/L | |
| 9929242 | MOA | RPD | Dissolved Aluminum (Al) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/05/16 | 0.43 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/05/16 | 1.4 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/05/16 | 3.7 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/05/16 | 0.60 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/16 | 2.5 | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/05/16 | 1.2 | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/05/16 | 0.056 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/05/16 | 1.5 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/05/16 | 3.6 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Thallium (Tl) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/05/16 | 1.2 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/05/16 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/05/16 | 11 | | % | 20 |
| 9929394 | M2C | Spiked Blank | pH | 2025/05/15 | | 99 | % | 97 - 103 |
| 9929394 | M2C | RPD | pH | 2025/05/15 | 0.30 | | % | N/A |
| 9929400 | M2C | Spiked Blank | Conductivity | 2025/05/15 | | 99 | % | 80 - 120 |
| 9929400 | M2C | Method Blank | Conductivity | 2025/05/15 | <1.0 | | uS/cm | |
| 9929400 | M2C | RPD | Conductivity | 2025/05/15 | 1.0 | | % | 10 |
| 9929402 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/15 | | 95 | % | 80 - 120 |
| 9929402 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/15 | <2.0 | | mg/L | |
| 9929402 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/05/15 | 2.5 | | % | 20 |
| 9929403 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/05/15 | | 95 | % | 80 - 120 |
| 9929403 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/15 | | 94 | % | 80 - 120 |
| 9929403 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/15 | <0.10 | | mg/L | |
| 9929403 | M2C | RPD | Dissolved Fluoride (F-) | 2025/05/15 | NC | | % | 20 |
| 9929479 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/05/16 | | 92 | % | 80 - 120 |
| 9929479 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/05/16 | | 100 | % | 80 - 120 |
| 9929479 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/05/16 | <0.050 | | mg/L | |
| 9929479 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/05/16 | NC | | % | 20 |
| 9929761 | IH0 | Method Blank | Carbon Dioxide | 2025/05/15 | <0.6 | | L/m3 | |
| 9929761 | IH0 | RPD [AQSB09-14] | Carbon Dioxide | 2025/05/15 | 0.71 | | % | 20 |
| 9930386 | M2C | QC Standard | Turbidity | 2025/05/16 | | 101 | % | 80 - 120 |
| 9930386 | M2C | Spiked Blank | Turbidity | 2025/05/16 | | 103 | % | 80 - 120 |
| 9930386 | M2C | Method Blank | Turbidity | 2025/05/16 | <0.10 | | NTU | |
| 9930386 | M2C | RPD | Turbidity | 2025/05/16 | 4.1 | | % | 20 |
| 9930391 | M2C | QC Standard | Turbidity | 2025/05/16 | | 102 | % | 80 - 120 |
| 9930391 | M2C | Spiked Blank | Turbidity | 2025/05/16 | | 103 | % | 80 - 120 |
| 9930391 | M2C | Method Blank | Turbidity | 2025/05/16 | <0.10 | | NTU | |
| 9930391 | M2C | RPD | Turbidity | 2025/05/16 | NC | | % | 20 |
| 9930402 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/05/20 | | 91 | % | 80 - 120 |
| 9930402 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/05/20 | | 92 | % | 80 - 120 |
| 9930402 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/05/20 | <1.0 | | mg/L | |
| 9930402 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/05/20 | 0.53 | | % | 20 |
| 9930407 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/05/20 | | 95 | % | 80 - 120 |
| 9930407 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/05/20 | | 94 | % | 80 - 120 |
| 9930407 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/05/20 | <2.0 | | mg/L | |
| 9930407 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/05/20 | 2.5 | | % | 20 |
| 9930408 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/05/20 | | 93 | % | 80 - 120 |
| 9930408 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/05/20 | | 95 | % | 80 - 120 |
| 9930408 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/05/20 | <0.50 | | mg/L | |
| 9930408 | MCN | RPD | Reactive Silica (SiO2) | 2025/05/20 | 1.7 | | % | 20 |
| 9930409 | MCN | Spiked Blank | Colour | 2025/05/20 | | 108 | % | 80 - 120 |
| 9930409 | MCN | Method Blank | Colour | 2025/05/20 | <5.0 | | TCU | |
| 9930409 | MCN | RPD | Colour | 2025/05/20 | NC | | % | 20 |
| 9930410 | MCN | Matrix Spike | Orthophosphate (P) | 2025/05/20 | | NC | % | 80 - 120 |
| 9930410 | MCN | Spiked Blank | Orthophosphate (P) | 2025/05/20 | | 91 | % | 80 - 120 |
| 9930410 | MCN | Method Blank | Orthophosphate (P) | 2025/05/20 | <0.010 | | mg/L | |
| 9930410 | MCN | RPD | Orthophosphate (P) | 2025/05/20 | 6.7 | | % | 20 |
| 9930411 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/05/20 | | 98 | % | 80 - 120 |



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Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9930411 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/05/20 | | 103 | % | 80 - 120 |
| 9930411 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/05/20 | <0.050 | | mg/L | |
| 9930411 | MCN | RPD | Nitrate + Nitrite (N) | 2025/05/20 | 6.8 | | % | 20 |
| 9930412 | MCN | Matrix Spike | Nitrite (N) | 2025/05/20 | | 94 | % | 80 - 120 |
| 9930412 | MCN | Spiked Blank | Nitrite (N) | 2025/05/20 | | 98 | % | 80 - 120 |
| 9930412 | MCN | Method Blank | Nitrite (N) | 2025/05/20 | <0.010 | | mg/L | |
| 9930412 | MCN | RPD | Nitrite (N) | 2025/05/20 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Spike: < 10 % of compounds in multi-component analysis in violation.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C552656
Report Date: 2025/05/21

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Ernlie Publicover, Scientific Specialist

Janah Rhyno, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

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Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 124-10265

AGAT WORK ORDER: 25K286562

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: May 13, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K286562

PROJECT: 124-10265

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-05-08

DATE REPORTED: 2025-05-13

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-05-07 12:10 | 2025-05-07 11:33 | 2025-05-07 10:29 |
| Parameter | Unit | G / S | RDL | | 6718955 | 6718959 | 6718960 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 233 | 102 | 166 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 11 | 2 | 2 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 2.33 | 1.02 | 1.66 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.11 | 0.02 | 0.02 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6718955-6718960 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K286562

PROJECT: 124-10265

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: May 13, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6718960 | 166 | 144 | 14.2% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6718960 | 2 | 2 | 0.0% | < 1 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K286562

PROJECT: 124-10265

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/29**
Report #: R8547153
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C556080**
**Received: 2025/05/16, 09:38**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 2 | N/A | 2025/05/23 | N/A | SM 24 4500-CO2 D |
| Carbonate, Bicarbonate and Hydroxide | 1 | N/A | 2025/05/26 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 2 | N/A | 2025/05/22 | ATL SOP 00142 | SM 24 2320 B |
| Alkalinity | 1 | N/A | 2025/05/23 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/05/22 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/05/28 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/05/21 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/05/28 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 2 | N/A | 2025/05/22 | ATL SOP 00004 | SM 24 2510B m |
| Conductance - water | 1 | N/A | 2025/05/23 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 1 | 2025/05/20 | 2025/05/21 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 2 | 2025/05/21 | 2025/05/21 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 2 | N/A | 2025/05/22 | ATL SOP 00043 | SM 24 4500-F- C m |
| Fluoride | 1 | N/A | 2025/05/23 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/05/16 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/05/23 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/05/22 | 2025/05/22 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/05/22 | 2025/05/22 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 2 | N/A | 2025/05/22 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS- Lab Filtered (2) | 1 | N/A | 2025/05/23 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/05/22 | 2025/05/22 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/05/28 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/05/27 | N/A | Auto Calc. |
| Total Ammonia-N (1) | 3 | N/A | 2025/05/27 | CAM SOP-00441 | USGS I-2522-90 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/05/28 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/05/28 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/05/29 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/05/20 | 2025/05/21 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 2 | N/A | 2025/05/22 | ATL SOP 00003 | SM 24 4500-H+ B m |
| pH (3) | 1 | N/A | 2025/05/23 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/05/27 | ATL SOP 00021 | SM 24 4500-P E m |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/29**
Report #: R8547153
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C556080**
**Received: 2025/05/16, 09:38**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/05/28 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/05/28 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/05/28 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/05/28 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/05/28 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/05/21 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 1 | N/A | 2025/05/21 | N/A | Atl. RBCA v3 m |
| ModTPH (T1) Calc. for Water | 2 | N/A | 2025/05/22 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/05/20 | 2025/05/21 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 1 | N/A | 2025/05/23 | ATL SOP 00011 | EPA 180.1 R2 m |
| Turbidity | 2 | N/A | 2025/05/26 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/05/20 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/05/20 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/05/29**
Report #: R8547153
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C556080**

**Received: 2025/05/16, 09:38**

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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) Sample filtered in laboratory prior to analysis for dissolved metals.

(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQYE20 | | AQYE21 | | | AQYE21 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | | 2025/05/14 10:07 | | | 2025/05/14 10:07 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | |
| Anion Sum | me/L | 0.560 | 9930210 | 0.360 | N/A | 9930210 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 22 | 9930204 | 13 | 1.0 | 9930204 | | | |
| Calculated TDS | mg/L | 34 | 9930219 | 22 | 1.0 | 9930219 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 9930204 | <1.0 | 1.0 | 9930204 | | | |
| Cation Sum | me/L | 0.640 | 9930210 | 0.420 | N/A | 9930210 | | | |
| Hardness (CaCO3) | mg/L | 25 | 9930206 | 15 | 1.0 | 9930694 | | | |
| Ion Balance (% Difference) | % | 6.67 | 9930208 | 7.69 | N/A | 9930208 | | | |
| Langelier Index (@ 20C) | N/A | -1.60 | 9930217 | -2.30 | | 9930217 | | | |
| Langelier Index (@ 4C) | N/A | -1.86 | 9930218 | -2.56 | | 9930218 | | | |
| Nitrate (N) | mg/L | 0.22 | 9930212 | 0.066 | 0.050 | 9930696 | | | |
| Saturation pH (@ 20C) | N/A | 9.07 | 9930217 | 9.50 | | 9930217 | | | |
| Saturation pH (@ 4C) | N/A | 9.32 | 9930218 | 9.75 | | 9930218 | | | |
| **Inorganics** | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 22 | 9933227 | 13 | 2.0 | 9934032 | 10 | 2.0 | 9934032 |
| Total Ammonia-N | mg/L | <0.050 | 9934411 | <0.050 | 0.050 | 9934411 | <0.050 | 0.050 | 9934411 |
| Dissolved Chloride (Cl-) | mg/L | 4.0 | 9936229 | 3.4 | 1.0 | 9936174 | 3.4 | 1.0 | 9936174 |
| Colour | TCU | 57 | 9936225 | 72 | 25 | 9936244 | 71 | 25 | 9936244 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 9933228 | <0.10 | 0.10 | 9934033 | <0.10 | 0.10 | 9934033 |
| Nitrate + Nitrite (N) | mg/L | 0.22 | 9936223 | 0.066 | 0.050 | 9936245 | 0.070 | 0.050 | 9936245 |
| Nitrite (N) | mg/L | <0.010 | 9936169 | <0.010 | 0.010 | 9936247 | <0.010 | 0.010 | 9936247 |
| Total Organic Carbon (C) | mg/L | 5.7 | 9931718 | 6.9 | 0.50 | 9931718 | | | |
| Orthophosphate (P) | mg/L | <0.010 | 9936224 | <0.010 | 0.010 | 9936239 | <0.010 | 0.010 | 9936239 |
| pH | pH | 7.47 | 9933224 | 7.20 | | 9934028 | 7.20 | | 9934028 |
| Reactive Silica (SiO2) | mg/L | 3.8 | 9936227 | 2.3 | 0.50 | 9936243 | 2.4 | 0.50 | 9936243 |
| Total Suspended Solids | mg/L | <1.0 | 9931581 | 1.4 | 1.0 | 9931581 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 9936228 | <2.0 | 2.0 | 9936241 | <2.0 | 2.0 | 9936241 |
| Turbidity | NTU | 0.78 | 9935521 | 0.77 | 0.10 | 9934184 | 0.75 | 0.10 | 9934184 |
| Conductivity | uS/cm | 64 | 9933225 | 42 | 1.0 | 9934031 | 42 | 1.0 | 9934031 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AQYE22 | | | AQYE22 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | | | 2025/05/14 08:43 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Anion Sum | me/L | 0.450 | N/A | 9930210 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 17 | 1.0 | 9930204 | | | |
| Calculated TDS | mg/L | 28 | 1.0 | 9930219 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9930204 | | | |
| Cation Sum | me/L | 0.520 | N/A | 9930210 | | | |
| Hardness (CaCO3) | mg/L | 20 | 1.0 | 9930694 | | | |
| Ion Balance (% Difference) | % | 7.22 | N/A | 9930208 | | | |
| Langelier Index (@ 20C) | N/A | -1.86 | | 9930217 | | | |
| Langelier Index (@ 4C) | N/A | -2.11 | | 9930218 | | | |
| Nitrate (N) | mg/L | 0.12 | 0.050 | 9930696 | | | |
| Saturation pH (@ 20C) | N/A | 9.27 | | 9930217 | | | |
| Saturation pH (@ 4C) | N/A | 9.52 | | 9930218 | | | |
| **Inorganics** | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 17 | 2.0 | 9933227 | | | |
| Total Ammonia-N | mg/L | <0.050 | 0.050 | 9934411 | | | |
| Dissolved Chloride (Cl-) | mg/L | 3.9 | 1.0 | 9936229 | | | |
| Colour | TCU | 58 | 25 | 9936225 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9933228 | | | |
| Nitrate + Nitrite (N) | mg/L | 0.12 | 0.050 | 9936223 | | | |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9936169 | | | |
| Total Organic Carbon (C) | mg/L | 6.6 | 0.50 | 9932283 | 6.6 | 0.50 | 9932283 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9936224 | | | |
| pH | pH | 7.41 | | 9933224 | | | |
| Reactive Silica (SiO2) | mg/L | 3.0 | 0.50 | 9936227 | | | |
| Total Suspended Solids | mg/L | 4.6 | 1.0 | 9931581 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9936228 | | | |
| Turbidity | NTU | 1.2 | 0.10 | 9935521 | | | |
| Conductivity | uS/cm | 52 | 1.0 | 9933225 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | AQYE22 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9932610 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9932605 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | | | AQYE21 | | | AQYE22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | | | 2025/05/14 10:07 | | | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 49 | 62 | 5.0 | 9933208 | 61 | 5.0 | 9933208 | 60 | 5.0 | 9933208 |
| Total Aluminum (Al) | ug/L | 73 | 75 | 5.0 | 9933117 | | | | 72 | 5.0 | 9933117 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | 1.0 | 9933117 | | | | <1.0 | 1.0 | 9933117 |
| Dissolved Arsenic (As) | ug/L | <1.0 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | 1.0 | 9933117 | | | | <1.0 | 1.0 | 9933117 |
| Dissolved Barium (Ba) | ug/L | 7.3 | 5.2 | 1.0 | 9933208 | 5.3 | 1.0 | 9933208 | 9.3 | 1.0 | 9933208 |
| Total Barium (Ba) | ug/L | 7.4 | 5.2 | 1.0 | 9933117 | | | | 9.3 | 1.0 | 9933117 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | 0.10 | 9933117 | | | | <0.10 | 0.10 | 9933117 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Boron (B) | ug/L | <50 | <50 | 50 | 9933208 | <50 | 50 | 9933208 | <50 | 50 | 9933208 |
| Total Boron (B) | ug/L | <50 | <50 | 50 | 9933117 | | | | <50 | 50 | 9933117 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | 0.010 | 9933208 | <0.010 | 0.010 | 9933208 | <0.010 | 0.010 | 9933208 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | 0.010 | 9933117 | | | | <0.010 | 0.010 | 9933117 |
| Dissolved Calcium (Ca) | ug/L | 7700 | 4600 | 100 | 9933208 | 4700 | 100 | 9933208 | 6200 | 100 | 9933208 |
| Total Calcium (Ca) | ug/L | 7900 | 4600 | 100 | 9933117 | | | | 6000 | 100 | 9933117 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 | <1.0 | 1.0 | 9933208 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | 1.0 | 9933117 | | | | <1.0 | 1.0 | 9933117 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | 0.40 | 9933208 | <0.40 | 0.40 | 9933208 | <0.40 | 0.40 | 9933208 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | 0.40 | 9933117 | | | | <0.40 | 0.40 | 9933117 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 |
| Total Copper (Cu) | ug/L | <0.50 | <0.50 | 0.50 | 9933117 | | | | <0.50 | 0.50 | 9933117 |
| Dissolved Iron (Fe) | ug/L | 120 | 58 | 50 | 9933208 | 58 | 50 | 9933208 | 65 | 50 | 9933208 |
| Total Iron (Fe) | ug/L | 200 | 120 | 50 | 9933117 | | | | 110 | 50 | 9933117 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | 0.50 | 9933117 | | | | <0.50 | 0.50 | 9933117 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Magnesium (Mg) | ug/L | 1300 | 900 | 100 | 9933208 | 880 | 100 | 9933208 | 1100 | 100 | 9933208 |
| Total Magnesium (Mg) | ug/L | 1400 | 860 | 100 | 9933117 | | | | 1100 | 100 | 9933117 |

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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | | | AQYE21 | | | AQYE22 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | | | 2025/05/14 10:07 | | | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | 22 | 3.5 | 2.0 | 9933208 | 3.7 | 2.0 | 9933208 | 5.2 | 2.0 | 9933208 |
| Total Manganese (Mn) | ug/L | 30 | 8.3 | 2.0 | 9933117 | | | | 11 | 2.0 | 9933117 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | 100 | 9933208 | <100 | 100 | 9933208 | <100 | 100 | 9933208 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 100 | 9933117 | | | | <100 | 100 | 9933117 |
| Dissolved Potassium (K) | ug/L | 180 | 170 | 100 | 9933208 | 160 | 100 | 9933208 | 180 | 100 | 9933208 |
| Total Potassium (K) | ug/L | 180 | 160 | 100 | 9933117 | | | | 170 | 100 | 9933117 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 | <0.50 | 0.50 | 9933208 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | 0.50 | 9933117 | | | | <0.50 | 0.50 | 9933117 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | 0.10 | 9933117 | | | | <0.10 | 0.10 | 9933117 |
| Dissolved Sodium (Na) | ug/L | 3000 | 2500 | 100 | 9933208 | 2400 | 100 | 9933208 | 2700 | 100 | 9933208 |
| Total Sodium (Na) | ug/L | 2800 | 2400 | 100 | 9933117 | | | | 2600 | 100 | 9933117 |
| Dissolved Strontium (Sr) | ug/L | 25 | 16 | 2.0 | 9933208 | 16 | 2.0 | 9933208 | 21 | 2.0 | 9933208 |
| Total Strontium (Sr) | ug/L | 25 | 15 | 2.0 | 9933117 | | | | 21 | 2.0 | 9933117 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | 0.10 | 9933117 | | | | <0.10 | 0.10 | 9933117 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Titanium (Ti) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 | <0.10 | 0.10 | 9933208 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 0.10 | 9933117 | | | | <0.10 | 0.10 | 9933117 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 | <2.0 | 2.0 | 9933208 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | 2.0 | 9933117 | | | | <2.0 | 2.0 | 9933117 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | 5.0 | 9933208 | <5.0 | 5.0 | 9933208 | <5.0 | 5.0 | 9933208 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | 5.0 | 9933117 | | | | <5.0 | 5.0 | 9933117 |

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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | AQYE22 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.1 | <0.6 | <0.6 | 0.6 | 9932744 |
| Calculated Carbon Dioxide | mg/L | 2 | <1 | <1 | 1 | 9930679 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | AQYE22 | | | AQYE22 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | 2025/05/14 08:43 | | | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9931415 | <0.050 | 0.050 | 9931415 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9931415 | <0.050 | 0.050 | 9931415 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9930693 | | | |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9931415 | <0.20 | 0.20 | 9931415 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9931415 | <0.010 | 0.010 | 9931415 |
| **Surrogate Recovery (%)** | | | | | | | | | |
| D10-Anthracene | % | 86 | 82 | 80 | | 9931415 | 82 | | 9931415 |
| D14-Terphenyl | % | 83 (1) | 77 | 75 | | 9931415 | 77 | | 9931415 |
| D8-Acenaphthylene | % | 81 | 78 | 75 | | 9931415 | 77 | | 9931415 |

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | AQYE22 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9931804 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9931804 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9931804 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9931804 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9931804 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9931804 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9931804 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AQYE20 | AQYE21 | AQYE22 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/05/14 08:43 | 2025/05/14 10:07 | 2025/05/14 08:43 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9931804 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9931804 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9931804 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 95 | 96 | 97 | | 9931804 |
| D4-1,2-Dichloroethane | % | 108 | 109 | 109 | | 9931804 |
| D8-Toluene | % | 97 | 97 | 97 | | 9931804 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AQYE20 | AQYE21 | | AQYE22 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/14 08:43 | 2025/05/14 10:07 | | 2025/05/14 08:43 | | |
| COC Number | | N/A | N/A | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | 9931639 | <0.0010 | 0.0010 | 9931639 |
| Toluene | mg/L | <0.0010 | <0.0010 | 9931639 | <0.0010 | 0.0010 | 9931639 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | 9931639 | <0.0010 | 0.0010 | 9931639 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | 9931639 | <0.0020 | 0.0020 | 9931639 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | 9931639 | <0.090 | 0.090 | 9931639 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | 9932406 | <0.050 | 0.050 | 9931805 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | 9932406 | <0.050 | 0.050 | 9931805 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | 9932406 | <0.090 | 0.090 | 9931805 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | 9930168 | <0.090 | 0.090 | 9930168 |
| Reached Baseline at C32 | mg/L | NA | NA | 9932406 | NA | N/A | 9931805 |
| Hydrocarbon Resemblance | mg/L | NA | NA | 9932406 | NA | N/A | 9931805 |
| **Surrogate Recovery (%)** | | | | | | | |
| Isobutylbenzene - Extractable | % | 101 | 85 | 9932406 | 99 | | 9931805 |
| n-Dotriacontane - Extractable | % | 95 | 83 | 9932406 | 89 | | 9931805 |
| Isobutylbenzene - Volatile | % | 106 | 106 | 9931639 | 106 | | 9931639 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 9.7°C |

Note: Broken bottle(s) in transit.- One vial for WQM-4 was received broken. Will proceed with good remaining vial.
Note: C of C information incomplete. - No sampling date or time was provided on COC or on bottles. updated COC provided.
Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.
Note: Sample container received empty - WQM-3: NH4 and 2x VOCW vials received empty. Will take subsample for ammonia. proceed with good remaining vial. WQM-4: one VOCW vials received empty. Will proceed with good remaining vial.

Sample AQYE20 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQYE21 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AQYE22 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9931415 | EPA | Matrix Spike [AQYE21-09] | D10-Anthracene | 2025/05/21 | | 79 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/21 | | 75 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/21 | | 75 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/21 | | 86 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/21 | | 93 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/21 | | 83 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/21 | | 88 | % | 50 - 130 |
| | | | Anthracene | 2025/05/21 | | 86 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/21 | | 74 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/21 | | 82 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/21 | | 86 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/21 | | 77 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/21 | | 95 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/21 | | 89 | % | 50 - 130 |
| | | | Chrysene | 2025/05/21 | | 77 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/21 | | 78 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/21 | | 82 | % | 50 - 130 |
| | | | Fluorene | 2025/05/21 | | 83 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/21 | | 78 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/21 | | 93 | % | 50 - 130 |
| | | | Perylene | 2025/05/21 | | 84 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/21 | | 90 | % | 50 - 130 |
| | | | Pyrene | 2025/05/21 | | 80 | % | 50 - 130 |
| 9931415 | EPA | Spiked Blank | D10-Anthracene | 2025/05/21 | | 97 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/21 | | 89 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/21 | | 94 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/21 | | 107 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/21 | | 115 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/21 | | 103 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/21 | | 109 | % | 50 - 130 |
| | | | Anthracene | 2025/05/21 | | 106 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/21 | | 84 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/21 | | 99 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/21 | | 106 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/21 | | 84 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/21 | | 117 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/21 | | 95 | % | 50 - 130 |
| | | | Chrysene | 2025/05/21 | | 93 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/21 | | 56 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/21 | | 96 | % | 50 - 130 |
| | | | Fluorene | 2025/05/21 | | 100 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/21 | | 86 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/21 | | 116 | % | 50 - 130 |
| | | | Perylene | 2025/05/21 | | 98 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/21 | | 111 | % | 50 - 130 |
| | | | Pyrene | 2025/05/21 | | 95 | % | 50 - 130 |
| 9931415 | EPA | Method Blank | D10-Anthracene | 2025/05/21 | | 98 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/21 | | 92 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/21 | | 90 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/21 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/05/21 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/05/21 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthylene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/05/21 | <0.20 | | ug/L | |
| | | | Perylene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/05/21 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/05/21 | <0.010 | | ug/L | |
| 9931415 | EPA | RPD [AQYE22-09] | 1-Methylnaphthalene | 2025/05/21 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/05/21 | NC | | % | 40 |
| | | | Acenaphthene | 2025/05/21 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/05/21 | NC | | % | 40 |
| | | | Anthracene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/05/21 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/05/21 | NC | | % | 40 |
| | | | Chrysene | 2025/05/21 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/05/21 | NC | | % | 40 |
| | | | Fluoranthene | 2025/05/21 | NC | | % | 40 |
| | | | Fluorene | 2025/05/21 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/21 | NC | | % | 40 |
| | | | Naphthalene | 2025/05/21 | NC | | % | 40 |
| | | | Perylene | 2025/05/21 | NC | | % | 40 |
| | | | Phenanthrene | 2025/05/21 | NC | | % | 40 |
| | | | Pyrene | 2025/05/21 | NC | | % | 40 |
| 9931581 | ISM | QC Standard | Total Suspended Solids | 2025/05/21 | | 99 | % | 80 - 120 |
| 9931581 | ISM | Method Blank | Total Suspended Solids | 2025/05/21 | <1.0 | | mg/L | |
| 9931581 | ISM | RPD | Total Suspended Solids | 2025/05/21 | 0 | | % | 20 |
| 9931639 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/05/20 | | 104 | % | 70 - 130 |
| | | | Benzene | 2025/05/20 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/20 | | 103 | % | 70 - 130 |
| 9931639 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/05/20 | | 106 | % | 70 - 130 |
| | | | Benzene | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | Toluene | 2025/05/20 | | 101 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/20 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/20 | | 106 | % | 70 - 130 |
| 9931639 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/05/20 | | 126 | % | 70 - 130 |
| | | | Benzene | 2025/05/20 | <0.0010 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Toluene | 2025/05/20 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/05/20 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/05/20 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/05/20 | <0.090 | | mg/L | |
| 9931639 | THL | RPD | Benzene | 2025/05/20 | NC | | % | 40 |
| | | | Toluene | 2025/05/20 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/20 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/20 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/05/20 | NC | | % | 40 |
| 9931718 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/21 | | 110 | % | 85 - 115 |
| 9931718 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/21 | | 97 | % | 80 - 120 |
| 9931718 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/21 | <0.50 | | mg/L | |
| 9931718 | SSI | RPD | Total Organic Carbon (C) | 2025/05/21 | NC | | % | 15 |
| 9931804 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/20 | | 109 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/20 | | 102 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/20 | | 100 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/20 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/20 | | 103 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/20 | | 93 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/20 | | 90 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/20 | | 89 | % | 70 - 130 |
| | | | Benzene | 2025/05/20 | | 93 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | Bromoform | 2025/05/20 | | 109 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/20 | | 115 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/20 | | 91 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/20 | | 103 | % | 60 - 140 |
| | | | Chloroform | 2025/05/20 | | 92 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/20 | | 122 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/20 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/20 | | 88 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | Styrene | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/20 | | 88 | % | 70 - 130 |
| | | | Toluene | 2025/05/20 | | 90 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/20 | | 86 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/20 | | 99 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/20 | | 107 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/20 | | 91 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9931804 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/20 | | 104 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/20 | | 102 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/20 | | 100 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/20 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/20 | | 103 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/20 | | 101 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/20 | | 94 | % | 70 - 130 |
| | | | Benzene | 2025/05/20 | | 97 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/05/20 | | 110 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/20 | | 118 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/20 | | 107 | % | 60 - 140 |
| | | | Chloroform | 2025/05/20 | | 95 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/20 | | 127 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/20 | | 93 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/20 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/20 | | 96 | % | 70 - 130 |
| | | | Styrene | 2025/05/20 | | 99 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/20 | | 91 | % | 70 - 130 |
| | | | Toluene | 2025/05/20 | | 93 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/20 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/20 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/20 | | 112 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/20 | | 100 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/20 | | 96 | % | 70 - 130 |
| 9931804 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/20 | | 104 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/20 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/20 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/05/20 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/05/20 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/05/20 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/20 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/05/20 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/05/20 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/05/20 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/05/20 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/05/20 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloropropane | 2025/05/20 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/05/20 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/05/20 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/05/20 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Benzene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/05/20 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/05/20 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/05/20 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/05/20 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/05/20 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/05/20 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/05/20 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/05/20 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/20 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/20 | <2.0 | | ug/L | |
| | | | Styrene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Toluene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/05/20 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/20 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/05/20 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/05/20 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/05/20 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/05/20 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/05/20 | <1.0 | | ug/L | |
| 9931804 | A1M | RPD | 1,1-Dichloroethane | 2025/05/20 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/05/20 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/05/20 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/05/20 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/20 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/05/20 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/05/20 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/05/20 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/05/20 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/05/20 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/05/20 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/05/20 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/05/20 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/05/20 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/05/20 | NC | | % | 40 |
| | | | Benzene | 2025/05/20 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/05/20 | NC | | % | 40 |
| | | | Bromoform | 2025/05/20 | NC | | % | 40 |
| | | | Bromomethane | 2025/05/20 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/05/20 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/05/20 | NC | | % | 40 |
| | | | Chloroethane | 2025/05/20 | NC | | % | 40 |
| | | | Chloroform | 2025/05/20 | NC | | % | 40 |
| | | | Chloromethane | 2025/05/20 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dibromochloromethane | 2025/05/20 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/20 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/20 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/20 | NC | | % | 40 |
| | | | Styrene | 2025/05/20 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/05/20 | NC | | % | 40 |
| | | | Toluene | 2025/05/20 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/05/20 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/20 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/05/20 | NC | | % | 40 |
| | | | o-Xylene | 2025/05/20 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/05/20 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/20 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/05/20 | NC | | % | 40 |
| 9931805 | MGN | Matrix Spike [AQYE22-08] | Isobutylbenzene - Extractable | 2025/05/21 | | 97 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | | 88 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | | 85 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | | 80 | % | 70 - 130 |
| 9931805 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/05/21 | | 101 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 106 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | | 91 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | | 93 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | | 86 | % | 70 - 130 |
| 9931805 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/05/21 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 90 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | <0.090 | | mg/L | |
| 9931805 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/05/21 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | NC | | % | 40 |
| 9932283 | SSI | Matrix Spike [AQYE22-05] | Total Organic Carbon (C) | 2025/05/21 | | 95 | % | 85 - 115 |
| 9932283 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/21 | | 99 | % | 80 - 120 |
| 9932283 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/21 | <0.50 | | mg/L | |
| 9932283 | SSI | RPD [AQYE22-05] | Total Organic Carbon (C) | 2025/05/21 | 0.045 | | % | 15 |
| 9932406 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/05/21 | | 97 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 97 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | | 89 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | | 83 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | | 79 | % | 70 - 130 |
| 9932406 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/05/21 | | 99 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 115 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | | 101 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | | 92 | % | 70 - 130 |
| 9932406 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/05/21 | | 98 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/05/21 | | 107 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/05/21 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | <0.090 | | mg/L | |
| 9932406 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/05/21 | 1.5 | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | >C16-C21 Hydrocarbons | 2025/05/21 | 3.2 | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/05/21 | 1.7 | | % | 40 |
| 9932605 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/05/22 | | 98 | % | 80 - 120 |
| 9932605 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/05/22 | | 101 | % | 80 - 120 |
| 9932605 | JEP | Method Blank | Total Mercury (Hg) | 2025/05/22 | <0.013 | | ug/L | |
| 9932605 | JEP | RPD | Total Mercury (Hg) | 2025/05/22 | NC | | % | 20 |
| 9932610 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/05/22 | | 96 | % | 80 - 120 |
| 9932610 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/05/22 | | 100 | % | 80 - 120 |
| 9932610 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/05/22 | <0.013 | | ug/L | |
| 9932610 | JEP | RPD | Dissolved Mercury (Hg) | 2025/05/22 | NC | | % | 20 |
| 9932744 | IH0 | Method Blank | Carbon Dioxide | 2025/05/21 | <0.6 | | L/m3 | |
| 9932744 | IH0 | RPD | Carbon Dioxide | 2025/05/21 | 3.4 | | % | 20 |
| 9933117 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/05/23 | | 97 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/23 | | 102 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/23 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/23 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/23 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/23 | | 102 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/23 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/23 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/23 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/23 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/23 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/23 | | 98 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/23 | | 101 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/23 | | 104 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/23 | | 103 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/23 | | 103 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/23 | | 100 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/23 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/23 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/23 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/23 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/23 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/23 | | 97 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/23 | | 106 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/23 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/23 | | 101 | % | 80 - 120 |
| 9933117 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/22 | | 101 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/22 | | 96 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Chromium (Cr) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/22 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/22 | | 102 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/22 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/22 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/22 | | 101 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/22 | | 101 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/22 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/22 | | 99 | % | 80 - 120 |
| 9933117 | MTZ | Method Blank | Total Aluminum (Al) | 2025/05/22 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/05/22 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/05/22 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/05/22 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/05/22 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/05/22 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/05/22 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/05/22 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/05/22 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/05/22 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/05/22 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Zinc (Zn) | 2025/05/22 | <5.0 | | ug/L | |
| 9933117 | MTZ | RPD | Total Manganese (Mn) | 2025/05/22 | NC | | % | 20 |
| 9933208 | MTZ | Matrix Spike [AQYE21-02] | Dissolved Aluminum (Al) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/22 | | 92 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/22 | | 103 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/22 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/22 | | 103 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/22 | | 101 | % | 80 - 120 |
| 9933208 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/22 | | 95 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/22 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/22 | | 96 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/22 | | 102 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/22 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/22 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Phosphorus (P) | 2025/05/22 | | 102 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/22 | | 97 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/22 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/22 | | 99 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/22 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/22 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/22 | | 102 | % | 80 - 120 |
| 9933208 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/05/22 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/05/22 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/05/22 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/05/22 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/05/22 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/05/22 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/05/22 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/05/22 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/05/22 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/05/22 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/05/22 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/05/22 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/05/22 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/05/22 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/05/22 | <5.0 | | ug/L | |
| 9933208 | MTZ | RPD [AQYE21-02] | Dissolved Aluminum (Al) | 2025/05/22 | 1.9 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/05/22 | 1.8 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/05/22 | 0.090 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Chromium (Cr) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/05/22 | 0.11 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Lithium (Li) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/05/22 | 2.7 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/05/22 | 6.8 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/05/22 | 4.3 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/05/22 | 2.6 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/05/22 | 2.7 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/05/22 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/05/22 | NC | | % | 20 |
| 9933224 | M2C | Spiked Blank | pH | 2025/05/22 | | 99 | % | 97 - 103 |
| 9933224 | M2C | RPD | pH | 2025/05/22 | 0.097 | | % | N/A |
| 9933225 | M2C | Spiked Blank | Conductivity | 2025/05/22 | | 99 | % | 80 - 120 |
| 9933225 | M2C | Method Blank | Conductivity | 2025/05/22 | <1.0 | | uS/cm | |
| 9933225 | M2C | RPD | Conductivity | 2025/05/22 | 0.42 | | % | 10 |
| 9933227 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/22 | | 97 | % | 80 - 120 |
| 9933227 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/22 | <2.0 | | mg/L | |
| 9933227 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/05/22 | 0.23 | | % | 20 |
| 9933228 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/05/22 | | 78 (1) | % | 80 - 120 |
| 9933228 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/22 | | 95 | % | 80 - 120 |
| 9933228 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/22 | <0.10 | | mg/L | |
| 9933228 | M2C | RPD | Dissolved Fluoride (F-) | 2025/05/22 | NC | | % | 20 |
| 9934028 | M2C | Spiked Blank | pH | 2025/05/23 | | 99 | % | 97 - 103 |
| 9934028 | M2C | RPD [AQYE21-02] | pH | 2025/05/23 | 0 | | % | N/A |
| 9934031 | M2C | Spiked Blank | Conductivity | 2025/05/23 | | 99 | % | 80 - 120 |
| 9934031 | M2C | Method Blank | Conductivity | 2025/05/23 | <1.0 | | uS/cm | |
| 9934031 | M2C | RPD [AQYE21-02] | Conductivity | 2025/05/23 | 0.49 | | % | 10 |
| 9934032 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/05/23 | | 99 | % | 80 - 120 |
| 9934032 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/05/23 | <2.0 | | mg/L | |
| 9934032 | M2C | RPD [AQYE21-02] | Total Alkalinity (Total as CaCO3) | 2025/05/23 | NC | | % | 20 |
| 9934033 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/05/23 | | 94 | % | 80 - 120 |
| 9934033 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/05/23 | | 98 | % | 80 - 120 |
| 9934033 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/05/23 | <0.10 | | mg/L | |
| 9934033 | M2C | RPD [AQYE21-02] | Dissolved Fluoride (F-) | 2025/05/23 | NC | | % | 20 |
| 9934184 | M2C | QC Standard | Turbidity | 2025/05/23 | | 105 | % | 80 - 120 |
| 9934184 | M2C | Spiked Blank | Turbidity | 2025/05/23 | | 104 | % | 80 - 120 |
| 9934184 | M2C | Method Blank | Turbidity | 2025/05/23 | <0.10 | | NTU | |
| 9934184 | M2C | RPD [AQYE21-02] | Turbidity | 2025/05/23 | 2.6 | | % | 20 |
| 9934411 | MUM | Matrix Spike [AQYE21-14] | Total Ammonia-N | 2025/05/27 | | 99 | % | 75 - 125 |
| 9934411 | MUM | Spiked Blank | Total Ammonia-N | 2025/05/27 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9934411 | MUM | Method Blank | Total Ammonia-N | 2025/05/27 | <0.050 | | mg/L | |
| 9934411 | MUM | RPD [AQYE21-14] | Total Ammonia-N | 2025/05/27 | NC | | % | 20 |
| 9935521 | M2C | QC Standard | Turbidity | 2025/05/26 | | 107 | % | 80 - 120 |
| 9935521 | M2C | Spiked Blank | Turbidity | 2025/05/26 | | 104 | % | 80 - 120 |
| 9935521 | M2C | Method Blank | Turbidity | 2025/05/26 | <0.10 | | NTU | |
| 9935521 | M2C | RPD | Turbidity | 2025/05/26 | 11 | | % | 20 |
| 9936169 | MCN | Matrix Spike | Nitrite (N) | 2025/05/28 | | 101 | % | 80 - 120 |
| 9936169 | MCN | Spiked Blank | Nitrite (N) | 2025/05/28 | | 100 | % | 80 - 120 |
| 9936169 | MCN | Method Blank | Nitrite (N) | 2025/05/28 | <0.010 | | mg/L | |
| 9936169 | MCN | RPD | Nitrite (N) | 2025/05/28 | NC | | % | 20 |
| 9936174 | MCN | Matrix Spike [AQYE21-02] | Dissolved Chloride (Cl-) | 2025/05/28 | | 93 | % | 80 - 120 |
| 9936174 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/05/28 | | 93 | % | 80 - 120 |
| 9936174 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/05/28 | <1.0 | | mg/L | |
| 9936174 | MCN | RPD [AQYE21-02] | Dissolved Chloride (Cl-) | 2025/05/28 | 1.7 | | % | 20 |
| 9936223 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/05/28 | | 106 | % | 80 - 120 |
| 9936223 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/05/28 | | 111 | % | 80 - 120 |
| 9936223 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/05/28 | <0.050 | | mg/L | |
| 9936223 | MCN | RPD | Nitrate + Nitrite (N) | 2025/05/28 | NC | | % | 20 |
| 9936224 | MCN | Matrix Spike | Orthophosphate (P) | 2025/05/27 | | 95 | % | 80 - 120 |
| 9936224 | MCN | Spiked Blank | Orthophosphate (P) | 2025/05/27 | | 96 | % | 80 - 120 |
| 9936224 | MCN | Method Blank | Orthophosphate (P) | 2025/05/27 | <0.010 | | mg/L | |
| 9936224 | MCN | RPD | Orthophosphate (P) | 2025/05/27 | 15 | | % | 20 |
| 9936225 | MCN | Spiked Blank | Colour | 2025/05/28 | | 113 | % | 80 - 120 |
| 9936225 | MCN | Method Blank | Colour | 2025/05/28 | <5.0 | | TCU | |
| 9936225 | MCN | RPD | Colour | 2025/05/28 | NC | | % | 20 |
| 9936227 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/05/28 | | 91 | % | 80 - 120 |
| 9936227 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/05/28 | | 95 | % | 80 - 120 |
| 9936227 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/05/28 | <0.50 | | mg/L | |
| 9936227 | MCN | RPD | Reactive Silica (SiO2) | 2025/05/28 | 1.5 | | % | 20 |
| 9936228 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/05/28 | | 93 | % | 80 - 120 |
| 9936228 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/05/28 | | 95 | % | 80 - 120 |
| 9936228 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/05/28 | <2.0 | | mg/L | |
| 9936228 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/05/28 | 0.79 | | % | 20 |
| 9936229 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/05/28 | | 93 | % | 80 - 120 |
| 9936229 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/05/28 | | 94 | % | 80 - 120 |
| 9936229 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/05/28 | <1.0 | | mg/L | |
| 9936229 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/05/28 | 1.9 | | % | 20 |
| 9936239 | MCN | Matrix Spike [AQYE21-02] | Orthophosphate (P) | 2025/05/27 | | 93 | % | 80 - 120 |
| 9936239 | MCN | Spiked Blank | Orthophosphate (P) | 2025/05/27 | | 93 | % | 80 - 120 |
| 9936239 | MCN | Method Blank | Orthophosphate (P) | 2025/05/27 | <0.010 | | mg/L | |
| 9936239 | MCN | RPD [AQYE21-02] | Orthophosphate (P) | 2025/05/27 | NC | | % | 20 |
| 9936241 | MCN | Matrix Spike [AQYE21-02] | Dissolved Sulphate (SO4) | 2025/05/28 | | 99 | % | 80 - 120 |
| 9936241 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/05/28 | | 95 | % | 80 - 120 |
| 9936241 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/05/28 | <2.0 | | mg/L | |
| 9936241 | MCN | RPD [AQYE21-02] | Dissolved Sulphate (SO4) | 2025/05/28 | NC | | % | 20 |
| 9936243 | MCN | Matrix Spike [AQYE21-02] | Reactive Silica (SiO2) | 2025/05/28 | | 96 | % | 80 - 120 |
| 9936243 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/05/28 | | 96 | % | 80 - 120 |
| 9936243 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/05/28 | <0.50 | | mg/L | |
| 9936243 | MCN | RPD [AQYE21-02] | Reactive Silica (SiO2) | 2025/05/28 | 5.0 | | % | 20 |
| 9936244 | MCN | Spiked Blank | Colour | 2025/05/28 | | 105 | % | 80 - 120 |
| 9936244 | MCN | Method Blank | Colour | 2025/05/28 | <5.0 | | TCU | |
| 9936244 | MCN | RPD [AQYE21-02] | Colour | 2025/05/28 | 1.5 | | % | 20 |



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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9936245 | MCN | Matrix Spike [AQYE21-02] | Nitrate + Nitrite (N) | 2025/05/28 | | 100 | % | 80 - 120 |
| 9936245 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/05/28 | | 107 | % | 80 - 120 |
| 9936245 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/05/28 | <0.050 | | mg/L | |
| 9936245 | MCN | RPD [AQYE21-02] | Nitrate + Nitrite (N) | 2025/05/28 | 5.9 | | % | 20 |
| 9936247 | MCN | Matrix Spike [AQYE21-02] | Nitrite (N) | 2025/05/28 | | 89 | % | 80 - 120 |
| 9936247 | MCN | Spiked Blank | Nitrite (N) | 2025/05/28 | | 100 | % | 80 - 120 |
| 9936247 | MCN | Method Blank | Nitrite (N) | 2025/05/28 | <0.010 | | mg/L | |
| 9936247 | MCN | RPD [AQYE21-02] | Nitrite (N) | 2025/05/28 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Poor spike recovery due to probable sample matrix interference.



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Bureau Veritas Job #: C556080
Report Date: 2025/05/29

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Ernlie Publicover, Scientific Specialist

Janah Rhyno, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

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120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K291419

MICROBIOLOGY ANALYSIS REVIEWED BY: Kaliegh Cullen, Report Writer

DATE REPORTED: May 27, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K291419

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-05-15

DATE REPORTED: 2025-05-27

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-05-14 11:45 | 2025-05-14 10:07 | 2025-05-14 08:43 |
| Parameter | Unit | G / S | RDL | | 6737876 | 6737877 | 6737878 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 461 | 179 | 248 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 23 | <1 | <1 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 4.61 | 1.79 | 2.48 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.23 | <0.01 | <0.01 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6737876-6737878 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Kaleigh Cullen



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K291419

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: May 27, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 6736815 | | <1 | <1 | NA | < 1 | | | | | | | | | |
| E. Coli (MPN) | 6736815 | | <1 | <1 | NA | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 6736815 | | < 0.01 | < 0.01 | NA | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 6736815 | | < 0.01 | < 0.01 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Kaliegh Cullen



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Results relate only to the items tested. Results apply to samples as received.

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http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K291419

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K297111

MICROBIOLOGY ANALYSIS REVIEWED BY: Kaliegh Cullen, Report Writer

DATE REPORTED: May 30, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

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# Certificate of Analysis

AGAT WORK ORDER: 25K297111

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-05-23

DATE REPORTED: 2025-05-30

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-05-22 13:43 | 2025-05-22 11:45 | 2025-05-22 11:00 |
| Parameter | Unit | G / S | RDL | | 6757944 | 6757945 | 6757946 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 276 | 196 | 308 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 40 | 1 | 1 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 2.76 | 1.96 | 3.08 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.40 | 0.01 | 0.01 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6757944-6757946 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Kaleigh Cullen



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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St. John's, NL
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# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K297111

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: May 30, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 6757944 | | 308 | 291 | | < 1 | | | | | | | | | |
| E. Coli (MPN) | 6757944 | | 1 | 1 | | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 6757944 | | 3.08 | 2.91 | 5.7% | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 6757944 | | 0.01 | 0.01 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Kaleigh Cullen



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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K297111

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

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P: 709.747.8573

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## Chain of Custody Record

**Laboratory Use Only**
Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 5.0, 5.3, 5.1
Hold Time:
AGAT Job Number: 25K297111
Notes:

**Report Information**
Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):
1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**
☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**
Regular TAT ☑ 5 to 7 working days
Rush TAT ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐
Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):
☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☑ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment | Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WQM-3 | 2025_05_22/1:43 pm | water | 1 | | | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| WQM-4 | 2025_05_22/11:45 am | water | 1 | | | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| WQM-5 | 2025_05_22/11:00 am | water | 1 | | | | | | | | | | | | | | | | | | | | | | | ☑ | | |

Samples Relinquished By (Print Name): JESSICA MCGRATH
Date/Time: May 23/2025
Samples Received By (Print Name):
Date/Time: May 22/25
Samples Relinquished By (Sign):
Date/Time:
Samples Received By (Sign):
Date/Time: 09:40

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 1
N°:


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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/10**
Report #: R8554504
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C559920**
**Received: 2025/05/26, 08:04**

Sample Matrix: Water
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/06/03 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/06/02 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 1 | N/A | 2025/05/29 | N/A | Auto Calc. |
| Benzo(b/j)fluoranthene Sum (water) | 2 | N/A | 2025/05/30 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/06/09 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/05/29 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/06/09 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/06/02 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/05/30 | 2025/06/02 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/06/02 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/05/27 | | |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/05/30 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/06/02 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 2 | 2025/05/30 | 2025/05/30 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 4 | 2025/05/30 | 2025/05/30 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/05/30 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/05/29 | 2025/05/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/05/29 | 2025/05/30 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/06/10 | N/A | Auto Calc. |
| Anion and Cation Sum | 2 | N/A | 2025/06/03 | N/A | Auto Calc. |
| Anion and Cation Sum | 1 | N/A | 2025/06/05 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 2 | N/A | 2025/06/03 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen Ammonia - water | 1 | N/A | 2025/06/04 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/06/09 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/06/09 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/06/10 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/05/28 | 2025/05/29 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/06/02 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/06/09 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/06/10 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/06/10 | ATL SOP 00049 | Auto Calc. |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/10**
Report #: R8554504
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C559920**
**Received: 2025/05/26, 08:04**

Sample Matrix: Water
# Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Reactive Silica | 3 | N/A | 2025/06/09 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/06/09 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/06/10 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/05/30 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/06/03 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/05/28 | 2025/05/29 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/06/04 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/05/28 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/05/29 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/10**
Report #: R8554504
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C559920**

**Received: 2025/05/26, 08:04**

(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AREW01 | | | AREW01 | | | AREW02 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | | | 2025/05/22 13:43 | | | 2025/05/22 11:45 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.820 | N/A | 9936303 | | | | 0.380 | N/A | 9936303 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 31 | 1.0 | 9936301 | | | | 14 | 1.0 | 9936301 |
| Calculated TDS | mg/L | 48 | 1.0 | 9936307 | | | | 24 | 1.0 | 9936307 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9936301 | | | | <1.0 | 1.0 | 9936301 |
| Cation Sum | me/L | 0.860 | N/A | 9936303 | | | | 0.480 | N/A | 9936303 |
| Hardness (CaCO3) | mg/L | 35 | 1.0 | 9936266 | | | | 18 | 1.0 | 9936266 |
| Ion Balance (% Difference) | % | 2.38 | N/A | 9936302 | | | | 11.6 | N/A | 9936302 |
| Langelier Index (@ 20C) | N/A | -1.23 | | 9936305 | | | | -2.09 | | 9936305 |
| Langelier Index (@ 4C) | N/A | -1.48 | | 9936306 | | | | -2.34 | | 9936306 |
| Nitrate (N) | mg/L | 0.28 | 0.050 | 9936304 | | | | 0.12 | 0.050 | 9936304 |
| Saturation pH (@ 20C) | N/A | 8.79 | | 9936305 | | | | 9.41 | | 9936305 |
| Saturation pH (@ 4C) | N/A | 9.04 | | 9936306 | | | | 9.66 | | 9936306 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 31 | 2.0 | 9940085 | | | | 14 | 2.0 | 9940085 |
| Dissolved Chloride (Cl-) | mg/L | 4.8 | 1.0 | 9944805 | | | | 3.3 | 1.0 | 9944805 |
| Colour | TCU | 41 | 5.0 | 9944822 | | | | 62 | 25 | 9944822 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9940086 | | | | <0.10 | 0.10 | 9940086 |
| Nitrate + Nitrite (N) | mg/L | 0.28 | 0.050 | 9944826 | | | | 0.12 | 0.050 | 9944826 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9944828 | | | | <0.010 | 0.010 | 9944828 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9941866 | <0.050 | 0.050 | 9941866 | <0.050 | 0.050 | 9940693 |
| Total Organic Carbon (C) | mg/L | 4.9 | 0.50 | 9938922 | | | | 6.4 | 0.50 | 9938762 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9944823 | | | | <0.010 | 0.010 | 9944823 |
| pH | pH | 7.56 | | 9940076 | | | | 7.32 | | 9940076 |
| Reactive Silica (SiO2) | mg/L | 4.5 | 0.50 | 9944820 | | | | 2.4 | 0.50 | 9944820 |
| Total Suspended Solids | mg/L | 8.8 | 2.0 | 9936761 | | | | 16 | 1.0 | 9936761 |
| Dissolved Sulphate (SO4) | mg/L | 2.3 | 2.0 | 9944819 | | | | <2.0 | 2.0 | 9944819 |
| Turbidity | NTU | 0.49 | 0.10 | 9942201 | | | | 1.3 | 0.10 | 9942201 |
| Conductivity | uS/cm | 83 | 1.0 | 9940084 | | | | 47 | 1.0 | 9940084 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AREW02 | | | AREW03 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 11:45 | | | 2025/05/22 11:00 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Anion Sum | me/L | | | | 0.560 | N/A | 9936303 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | | | | 22 | 1.0 | 9936301 |
| Calculated TDS | mg/L | | | | 33 | 1.0 | 9936307 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | | | | <1.0 | 1.0 | 9936301 |
| Cation Sum | me/L | | | | 0.620 | N/A | 9936303 |
| Hardness (CaCO3) | mg/L | | | | 24 | 1.0 | 9936266 |
| Ion Balance (% Difference) | % | | | | 5.08 | N/A | 9936302 |
| Langelier Index (@ 20C) | N/A | | | | -1.55 | | 9936305 |
| Langelier Index (@ 4C) | N/A | | | | -1.80 | | 9936306 |
| Nitrate (N) | mg/L | | | | 0.14 | 0.050 | 9936304 |
| Saturation pH (@ 20C) | N/A | | | | 9.07 | | 9936305 |
| Saturation pH (@ 4C) | N/A | | | | 9.33 | | 9936306 |
| **Inorganics** | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | | | | 22 | 2.0 | 9940093 |
| Dissolved Chloride (Cl-) | mg/L | 3.2 | 1.0 | 9944805 | 3.6 | 1.0 | 9944805 |
| Colour | TCU | 53 | 25 | 9944822 | 55 | 10 | 9944822 |
| Dissolved Fluoride (F-) | mg/L | | | | <0.10 | 0.10 | 9940094 |
| Nitrate + Nitrite (N) | mg/L | 0.15 | 0.050 | 9944826 | 0.14 | 0.050 | 9944826 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9944828 | <0.010 | 0.010 | 9944828 |
| Nitrogen (Ammonia Nitrogen) | mg/L | | | | <0.050 | 0.050 | 9940693 |
| Total Organic Carbon (C) | mg/L | | | | 6.3 | 0.50 | 9938922 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9944823 | <0.010 | 0.010 | 9944823 |
| pH | pH | | | | 7.53 | | 9940089 |
| Reactive Silica (SiO2) | mg/L | 2.4 | 0.50 | 9944820 | 3.1 | 0.50 | 9944820 |
| Total Suspended Solids | mg/L | | | | 3.2 | 1.0 | 9936761 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9944819 | <2.0 | 2.0 | 9944819 |
| Turbidity | NTU | | | | 0.38 | 0.10 | 9942201 |
| Conductivity | uS/cm | | | | 61 | 1.0 | 9940091 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AREW01 | | | AREW01 | | | AREW02 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | | | 2025/05/22 13:43 | | | 2025/05/22 11:45 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Metals** | | | | | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | 0.013 | 9938008 | <0.013 | 0.013 | 9938008 | <0.013 | 0.013 | 9938008 |
| Total Mercury (Hg) | ug/L | <0.013 | 0.013 | 9938013 | | | | <0.013 | 0.013 | 9938013 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | ARGE53 | ARGE54 | | |
|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 11:00 | 2025/05/22 11:00 | | |
| COC Number | | N/A | N/A | | |
| | UNITS | WQM_A | WQM_B | RDL | QC Batch |
| **Metals** | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | 0.013 | 9938013 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AREW01 | | AREW02 | | AREW03 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | | 2025/05/22 11:45 | | 2025/05/22 11:00 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 31 | 9938590 | 51 | 9938590 | 48 | 5.0 | 9938590 |
| Total Aluminum (Al) | ug/L | 150 | 9938142 | 63 | 9937610 | 57 | 5.0 | 9938142 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 9938590 | <1.0 | 9938590 | <1.0 | 1.0 | 9938590 |
| Total Antimony (Sb) | ug/L | <1.0 | 9938142 | <1.0 | 9937610 | <1.0 | 1.0 | 9938142 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 9938590 | <1.0 | 9938590 | <1.0 | 1.0 | 9938590 |
| Total Arsenic (As) | ug/L | 1.3 | 9938142 | <1.0 | 9937610 | <1.0 | 1.0 | 9938142 |
| Dissolved Barium (Ba) | ug/L | 9.8 | 9938590 | 5.6 | 9938590 | 11 | 1.0 | 9938590 |
| Total Barium (Ba) | ug/L | 13 | 9938142 | 5.4 | 9937610 | 11 | 1.0 | 9938142 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 9938590 | <0.10 | 9938590 | <0.10 | 0.10 | 9938590 |
| Total Beryllium (Be) | ug/L | <0.10 | 9938142 | <0.10 | 9937610 | <0.10 | 0.10 | 9938142 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Bismuth (Bi) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Boron (B) | ug/L | <50 | 9938590 | <50 | 9938590 | <50 | 50 | 9938590 |
| Total Boron (B) | ug/L | <50 | 9938142 | <50 | 9937610 | <50 | 50 | 9938142 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 9938590 | <0.010 | 9938590 | <0.010 | 0.010 | 9938590 |
| Total Cadmium (Cd) | ug/L | <0.010 | 9938142 | <0.010 | 9937610 | <0.010 | 0.010 | 9938142 |
| Dissolved Calcium (Ca) | ug/L | 11000 | 9938590 | 5500 | 9938590 | 7500 | 100 | 9938590 |
| Total Calcium (Ca) | ug/L | 11000 | 9938142 | 5200 | 9937610 | 7400 | 100 | 9938142 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 9938590 | <1.0 | 9938590 | <1.0 | 1.0 | 9938590 |
| Total Chromium (Cr) | ug/L | <1.0 | 9938142 | <1.0 | 9937610 | <1.0 | 1.0 | 9938142 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 9938590 | <0.40 | 9938590 | <0.40 | 0.40 | 9938590 |
| Total Cobalt (Co) | ug/L | <0.40 | 9938142 | <0.40 | 9937610 | <0.40 | 0.40 | 9938142 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 9938590 | <0.50 | 9938590 | <0.50 | 0.50 | 9938590 |
| Total Copper (Cu) | ug/L | <0.50 | 9938142 | 0.56 | 9937610 | 1.1 | 0.50 | 9938142 |
| Dissolved Iron (Fe) | ug/L | 170 | 9938590 | 75 | 9938590 | 80 | 50 | 9938590 |
| Total Iron (Fe) | ug/L | 430 | 9941791 | 130 | 9937610 | 110 | 50 | 9941791 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 9938590 | <0.50 | 9938590 | <0.50 | 0.50 | 9938590 |
| Total Lead (Pb) | ug/L | <0.50 | 9938142 | <0.50 | 9937610 | <0.50 | 0.50 | 9938142 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Lithium (Li) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Magnesium (Mg) | ug/L | 1800 | 9938590 | 1000 | 9938590 | 1300 | 100 | 9938590 |
| Total Magnesium (Mg) | ug/L | 1800 | 9938142 | 980 | 9937610 | 1300 | 100 | 9938142 |
| Dissolved Manganese (Mn) | ug/L | 28 | 9938590 | 5.2 | 9938590 | 5.9 | 2.0 | 9938590 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AREW01 | | AREW02 | | AREW03 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | | 2025/05/22 11:45 | | 2025/05/22 11:00 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 65 | 9938142 | 12 | 9937610 | 9.8 | 2.0 | 9938142 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Nickel (Ni) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Phosphorus (P) | ug/L | <100 | 9938590 | <100 | 9938590 | <100 | 100 | 9938590 |
| Total Phosphorus (P) | ug/L | <100 | 9938142 | <100 | 9937610 | <100 | 100 | 9938142 |
| Dissolved Potassium (K) | ug/L | 310 | 9938590 | 190 | 9938590 | 220 | 100 | 9938590 |
| Total Potassium (K) | ug/L | 240 | 9938142 | 190 | 9937610 | 240 | 100 | 9938142 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 9938590 | <0.50 | 9938590 | <0.50 | 0.50 | 9938590 |
| Total Selenium (Se) | ug/L | <0.50 | 9938142 | <0.50 | 9937610 | <0.50 | 0.50 | 9938142 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 9938590 | <0.10 | 9938590 | <0.10 | 0.10 | 9938590 |
| Total Silver (Ag) | ug/L | <0.10 | 9938142 | <0.10 | 9937610 | <0.10 | 0.10 | 9938142 |
| Dissolved Sodium (Na) | ug/L | 3500 | 9938590 | 2700 | 9938590 | 3000 | 100 | 9938590 |
| Total Sodium (Na) | ug/L | 3200 | 9938142 | 2500 | 9937610 | 3000 | 100 | 9938142 |
| Dissolved Strontium (Sr) | ug/L | 36 | 9938590 | 20 | 9938590 | 27 | 2.0 | 9938590 |
| Total Strontium (Sr) | ug/L | 35 | 9938142 | 18 | 9937610 | 25 | 2.0 | 9938142 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 9938590 | <0.10 | 9938590 | <0.10 | 0.10 | 9938590 |
| Total Thallium (Tl) | ug/L | <0.10 | 9938142 | <0.10 | 9937610 | <0.10 | 0.10 | 9938142 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Tin (Sn) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Titanium (Ti) | ug/L | 7.7 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Uranium (U) | ug/L | <0.10 | 9938590 | <0.10 | 9938590 | <0.10 | 0.10 | 9938590 |
| Total Uranium (U) | ug/L | <0.10 | 9938142 | <0.10 | 9937610 | <0.10 | 0.10 | 9938142 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 9938590 | <2.0 | 9938590 | <2.0 | 2.0 | 9938590 |
| Total Vanadium (V) | ug/L | <2.0 | 9938142 | <2.0 | 9937610 | <2.0 | 2.0 | 9938142 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 9938590 | <5.0 | 9938590 | <5.0 | 5.0 | 9938590 |
| Total Zinc (Zn) | ug/L | <5.0 | 9938142 | <5.0 | 9937610 | <5.0 | 5.0 | 9938142 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AREW01 | | | AREW01 | | | AREW02 | AREW03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | | | 2025/05/22 13:43 | | | 2025/05/22 11:45 | 2025/05/22 11:00 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 1.4 | 0.6 | 9938068 | 0.7 | 0.6 | 9938068 | <0.6 | <0.6 | 0.6 | 9938068 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9935991 | | | | <1 | <1 | 1 | 9935991 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AREW01 | AREW02 | AREW03 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | 2025/05/22 11:45 | 2025/05/22 11:00 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9937047 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9937047 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9936263 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9937047 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9937047 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 89 | 89 | 82 | | 9937047 |
| D14-Terphenyl | % | 89 (1) | 87 (1) | 80 (1) | | 9937047 |
| D8-Acenaphthylene | % | 89 | 87 | 79 | | 9937047 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AREW01 | AREW01 | AREW02 | AREW03 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | 2025/05/22 13:43 | 2025/05/22 11:45 | 2025/05/22 11:00 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-3 Lab-Dup | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9936812 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9936812 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9936812 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9936812 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9936812 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9936812 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AREW01 | AREW01 | AREW02 | AREW03 | | |
|---|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/05/22 13:43 | 2025/05/22 13:43 | 2025/05/22 11:45 | 2025/05/22 11:00 | | |
| **COC Number** | | N/A | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-3 Lab-Dup** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9936812 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9936812 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9936812 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9936812 |
| **Surrogate Recovery (%)** | | | | | | | |
| 4-Bromofluorobenzene | % | 98 | 98 | 98 | 98 | | 9936812 |
| D4-1,2-Dichloroethane | % | 106 | 108 | 107 | 106 | | 9936812 |
| D8-Toluene | % | 99 | 99 | 99 | 100 | | 9936812 |

RDL = Reportable Detection Limit
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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AREW01 | AREW02 | AREW03 | | | AREW03 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/22 13:43 | 2025/05/22 11:45 | 2025/05/22 11:00 | | | 2025/05/22 11:00 | | |
| COC Number | | N/A | N/A | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9937694 | | | |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9937694 | | | |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9937694 | | | |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9937694 | | | |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9937694 | | | |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9939060 | <0.050 | 0.050 | 9939060 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9939060 | <0.050 | 0.050 | 9939060 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9939060 | <0.090 | 0.090 | 9939060 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9936417 | | | |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9939060 | | | |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9939060 | | | |
| **Surrogate Recovery (%)** | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 100 | 100 | 98 | | 9939060 | 101 | | 9939060 |
| n-Dotriacontane - Extractable | % | 91 | 89 | 85 | | 9939060 | 93 | | 9939060 |
| Isobutylbenzene - Volatile | % | 109 | 110 | 111 | | 9937694 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 4.3°C |

Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.
Note: Sample requiring filtration received preserved.- Mercury bottle not marked filtered. Proceeded per client communication.

Sample AREW02 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AREW03 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AREW01, Metals Water Total MS: Test repeated.
Sample AREW03, Metals Water Total MS: Test repeated.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9936761 | ISM | QC Standard | Total Suspended Solids | 2025/05/29 | | 98 | % | 80 - 120 |
| 9936761 | ISM | Method Blank | Total Suspended Solids | 2025/05/29 | <1.0 | | mg/L | |
| 9936761 | ISM | RPD | Total Suspended Solids | 2025/05/29 | 6.6 | | % | 20 |
| 9936812 | A1M | Matrix Spike [AREW02-12] | 4-Bromofluorobenzene | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/28 | | 110 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/28 | | 105 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/28 | | 102 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/28 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/28 | | 102 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/28 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/28 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/28 | | 101 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/28 | | 92 | % | 70 - 130 |
| | | | Benzene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/05/28 | | 110 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/28 | | 101 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/28 | | 99 | % | 60 - 140 |
| | | | Chloroform | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/28 | | 104 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/28 | | 91 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Styrene | 2025/05/28 | | 94 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/28 | | 88 | % | 70 - 130 |
| | | | Toluene | 2025/05/28 | | 92 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/28 | | 89 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/28 | | 98 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/28 | | 98 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/28 | | 93 | % | 70 - 130 |
| 9936812 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/28 | | 101 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/28 | | 101 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/05/28 | | 104 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/05/28 | | 103 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/05/28 | | 102 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/05/28 | | 101 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichlorobenzene | 2025/05/28 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/05/28 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/05/28 | | 96 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/05/28 | | 107 | % | 70 - 130 |
| | | | Bromomethane | 2025/05/28 | | 98 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/05/28 | | 105 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | Chloroethane | 2025/05/28 | | 102 | % | 60 - 140 |
| | | | Chloroform | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | Chloromethane | 2025/05/28 | | 106 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/28 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/28 | | 98 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | Styrene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Toluene | 2025/05/28 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/05/28 | | 95 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/28 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/05/28 | | 102 | % | 60 - 140 |
| | | | o-Xylene | 2025/05/28 | | 103 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/05/28 | | 100 | % | 70 - 130 |
| 9936812 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/05/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/05/28 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/05/28 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/05/28 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/05/28 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/05/28 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/28 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/05/28 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/05/28 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/05/28 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/05/28 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/05/28 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/05/28 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/05/28 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/05/28 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/05/28 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Benzene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/05/28 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/05/28 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/05/28 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2025/05/28 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/05/28 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/05/28 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/05/28 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/05/28 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/28 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/28 | <2.0 | | ug/L | |
| | | | Styrene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Toluene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/05/28 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/28 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/05/28 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/05/28 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/05/28 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/05/28 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/05/28 | <1.0 | | ug/L | |
| 9936812 | A1M | RPD [AREW01-12] | 1,1-Dichloroethane | 2025/05/28 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/05/28 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/05/28 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/05/28 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/05/28 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/05/28 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/05/28 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/05/28 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/05/28 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/05/28 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/05/28 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/05/28 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/05/28 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/05/28 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/05/28 | NC | | % | 40 |
| | | | Benzene | 2025/05/28 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/05/28 | NC | | % | 40 |
| | | | Bromoform | 2025/05/28 | NC | | % | 40 |
| | | | Bromomethane | 2025/05/28 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/05/28 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/05/28 | NC | | % | 40 |
| | | | Chloroethane | 2025/05/28 | NC | | % | 40 |
| | | | Chloroform | 2025/05/28 | NC | | % | 40 |
| | | | Chloromethane | 2025/05/28 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/05/28 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/05/28 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/28 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/05/28 | NC | | % | 40 |
| | | | Styrene | 2025/05/28 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/05/28 | NC | | % | 40 |
| | | | Toluene | 2025/05/28 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/05/28 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/05/28 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Vinyl Chloride | 2025/05/28 | NC | | % | 40 |
| | | | o-Xylene | 2025/05/28 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/05/28 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/28 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/05/28 | NC | | % | 40 |
| 9937047 | EPA | Matrix Spike [AREW01-07] | D10-Anthracene | 2025/05/29 | | 86 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/29 | | 85 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/29 | | 88 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/29 | | 84 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/29 | | 91 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/29 | | 85 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/29 | | 90 | % | 50 - 130 |
| | | | Anthracene | 2025/05/29 | | 94 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/29 | | 87 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/29 | | 89 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/29 | | 93 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/29 | | 83 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/29 | | 98 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/29 | | 88 | % | 50 - 130 |
| | | | Chrysene | 2025/05/29 | | 92 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/29 | | 85 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/29 | | 88 | % | 50 - 130 |
| | | | Fluorene | 2025/05/29 | | 83 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/29 | | 85 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/29 | | 87 | % | 50 - 130 |
| | | | Perylene | 2025/05/29 | | 87 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/29 | | 90 | % | 50 - 130 |
| | | | Pyrene | 2025/05/29 | | 87 | % | 50 - 130 |
| 9937047 | EPA | Spiked Blank | D10-Anthracene | 2025/05/29 | | 100 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/29 | | 101 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/29 | | 104 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/29 | | 103 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/05/29 | | 111 | % | 50 - 130 |
| | | | Acenaphthene | 2025/05/29 | | 102 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/05/29 | | 109 | % | 50 - 130 |
| | | | Anthracene | 2025/05/29 | | 105 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/05/29 | | 99 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/05/29 | | 105 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/05/29 | | 111 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/05/29 | | 101 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/05/29 | | 122 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/05/29 | | 107 | % | 50 - 130 |
| | | | Chrysene | 2025/05/29 | | 111 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/05/29 | | 94 | % | 50 - 130 |
| | | | Fluoranthene | 2025/05/29 | | 103 | % | 50 - 130 |
| | | | Fluorene | 2025/05/29 | | 96 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/29 | | 103 | % | 50 - 130 |
| | | | Naphthalene | 2025/05/29 | | 107 | % | 50 - 130 |
| | | | Perylene | 2025/05/29 | | 105 | % | 50 - 130 |
| | | | Phenanthrene | 2025/05/29 | | 121 | % | 50 - 130 |
| | | | Pyrene | 2025/05/29 | | 104 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9937047 | EPA | Method Blank | D10-Anthracene | 2025/05/29 | | 99 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/05/29 | | 98 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/05/29 | | 103 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/05/29 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/05/29 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/05/29 | <0.20 | | ug/L | |
| | | | Perylene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/05/29 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/05/29 | <0.010 | | ug/L | |
| 9937047 | EPA | RPD | Naphthalene | 2025/05/29 | NC | | % | 40 |
| 9937610 | MOA | Matrix Spike [AREW02-04] | Total Aluminum (Al) | 2025/05/29 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/29 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/29 | | 96 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/29 | | 95 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/29 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/29 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/29 | | 107 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/29 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/29 | | 102 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/29 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/29 | | 102 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/29 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/29 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/29 | | 101 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/29 | | 104 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/29 | | 103 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Titanium (Ti) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/29 | | 105 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/29 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/29 | | 99 | % | 80 - 120 |
| 9937610 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/05/29 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/29 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/29 | | 95 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/29 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/29 | | 95 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/29 | | 96 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/05/29 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/29 | | 102 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/29 | | 102 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/29 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/29 | | 97 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/29 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/29 | | 99 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/29 | | 99 | % | 80 - 120 |
| 9937610 | MOA | Method Blank | Total Aluminum (Al) | 2025/05/29 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/05/29 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/05/29 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/05/29 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/05/29 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/05/29 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/05/29 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/05/29 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/05/29 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/05/29 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/05/29 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/05/29 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/05/29 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/05/29 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/05/29 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Molybdenum (Mo) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/05/29 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/05/29 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/05/29 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/05/29 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/05/29 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/05/29 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/05/29 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/05/29 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/05/29 | <5.0 | | ug/L | |
| 9937610 | MOA | RPD | Total Aluminum (Al) | 2025/05/30 | 6.2 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/05/30 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/05/30 | 2.8 | | % | 20 |
| | | | Total Barium (Ba) | 2025/05/30 | 5.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/05/30 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/05/30 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/05/30 | 0.46 | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/05/30 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/05/30 | 0.41 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/05/30 | 6.7 | | % | 20 |
| | | | Total Cobalt (Co) | 2025/05/30 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/05/30 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/05/30 | 1.9 | | % | 20 |
| | | | Total Lead (Pb) | 2025/05/30 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/05/30 | 2.3 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/05/30 | 3.9 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/05/30 | 0.84 | | % | 20 |
| | | | Total Nickel (Ni) | 2025/05/30 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/05/30 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/05/30 | 0.77 | | % | 20 |
| | | | Total Selenium (Se) | 2025/05/30 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/05/30 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/05/30 | 1.0 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/05/30 | 3.4 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/05/30 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/05/30 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/05/30 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/05/30 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/05/30 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/05/30 | NC | | % | 20 |
| 9937694 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/05/29 | | 111 | % | 70 - 130 |
| | | | Benzene | 2025/05/29 | | 98 | % | 70 - 130 |
| | | | Toluene | 2025/05/29 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/05/29 | | 103 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/29 | | 104 | % | 70 - 130 |
| 9937694 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/05/29 | | 110 | % | 70 - 130 |
| | | | Benzene | 2025/05/29 | | 99 | % | 70 - 130 |
| | | | Toluene | 2025/05/29 | | 99 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Ethylbenzene | 2025/05/29 | | 104 | % | 70 - 130 |
| | | | Total Xylenes | 2025/05/29 | | 105 | % | 70 - 130 |
| 9937694 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/05/29 | | 110 | % | 70 - 130 |
| | | | Benzene | 2025/05/29 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/05/29 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/05/29 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/05/29 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/05/29 | <0.090 | | mg/L | |
| 9937694 | THL | RPD | Benzene | 2025/05/29 | NC | | % | 40 |
| | | | Toluene | 2025/05/29 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/05/29 | NC | | % | 40 |
| | | | Total Xylenes | 2025/05/29 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/05/29 | NC | | % | 40 |
| 9938008 | JEP | Matrix Spike [AREW02-09] | Dissolved Mercury (Hg) | 2025/05/30 | | 96 | % | 80 - 120 |
| 9938008 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/05/30 | | 100 | % | 80 - 120 |
| 9938008 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/05/30 | <0.013 | | ug/L | |
| 9938008 | JEP | RPD [AREW01-09] | Dissolved Mercury (Hg) | 2025/05/30 | NC | | % | 20 |
| 9938013 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/05/30 | | 99 | % | 80 - 120 |
| 9938013 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/05/30 | | 99 | % | 80 - 120 |
| 9938013 | JEP | Method Blank | Total Mercury (Hg) | 2025/05/30 | <0.013 | | ug/L | |
| 9938013 | JEP | RPD | Total Mercury (Hg) | 2025/05/30 | NC | | % | 20 |
| 9938068 | IH0 | Method Blank | Carbon Dioxide | 2025/05/29 | <0.6 | | L/m3 | |
| 9938068 | IH0 | RPD [AREW01-14] | Carbon Dioxide | 2025/05/29 | NC | | % | 20 |
| 9938142 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/30 | | 107 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/30 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/30 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/30 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/30 | | 103 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/30 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/30 | | 106 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/30 | | 106 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/30 | | 107 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/30 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/30 | | 119 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Vanadium (V) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/30 | | NC | % | 80 - 120 |
| 9938142 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/05/30 | | 103 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/05/30 | | 92 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/05/30 | | 91 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/05/30 | | 111 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/05/30 | | 99 | % | 80 - 120 |
| 9938142 | MOA | Method Blank | Total Aluminum (Al) | 2025/05/30 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/05/30 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/05/30 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/05/30 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/05/30 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/05/30 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/05/30 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/05/30 | <100 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Selenium (Se) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/05/30 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/05/30 | <5.0 | | ug/L | |
| 9938142 | MOA | RPD | Total Aluminum (Al) | 2025/05/30 | 14 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/05/30 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/05/30 | 2.7 | | % | 20 |
| | | | Total Barium (Ba) | 2025/05/30 | 1.2 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/05/30 | 15 | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/05/30 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/05/30 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/05/30 | 2.5 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/05/30 | 4.1 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/05/30 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/05/30 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/05/30 | 5.7 | | % | 20 |
| | | | Total Lead (Pb) | 2025/05/30 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/05/30 | 4.1 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/05/30 | 6.3 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/05/30 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/05/30 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/05/30 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/05/30 | 6.1 | | % | 20 |
| | | | Total Selenium (Se) | 2025/05/30 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/05/30 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/05/30 | 4.5 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/05/30 | 2.9 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/05/30 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/05/30 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/05/30 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/05/30 | 4.6 | | % | 20 |
| | | | Total Vanadium (V) | 2025/05/30 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/05/30 | 6.6 | | % | 20 |
| 9938590 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/05/30 | | 107 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/30 | | 93 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/30 | | 93 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/30 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Lead (Pb) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/30 | | 108 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/30 | | 108 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/30 | | NC | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/30 | | 105 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/30 | | 107 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/30 | | 98 | % | 80 - 120 |
| 9938590 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/05/30 | | 97 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/05/30 | | 96 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/05/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/05/30 | | 106 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/05/30 | | 95 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/05/30 | | 97 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/05/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/05/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/05/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/05/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/05/30 | | 110 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/05/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/05/30 | | 102 | % | 80 - 120 |
| 9938590 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/05/30 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/05/30 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Barium (Ba) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/05/30 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/05/30 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/05/30 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/05/30 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/05/30 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/05/30 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/05/30 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/05/30 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/05/30 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/05/30 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/05/30 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/05/30 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/05/30 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/05/30 | <5.0 | | ug/L | |
| 9938590 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/05/30 | 1.1 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/05/30 | 8.8 | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/05/30 | 0.69 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/05/30 | 1.5 | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/05/30 | 4.5 | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/05/30 | 1.3 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/05/30 | 3.4 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/05/30 | 0.015 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/05/30 | 1.9 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/05/30 | 0.52 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/05/30 | 0.35 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/05/30 | 0.50 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Thallium (Tl) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/05/30 | 1.9 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/05/30 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/05/30 | NC | | % | 20 |
| 9938762 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/30 | | 96 | % | 85 - 115 |
| 9938762 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/30 | | 95 | % | 80 - 120 |
| 9938762 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/30 | <0.50 | | mg/L | |
| 9938762 | SSI | RPD | Total Organic Carbon (C) | 2025/05/30 | NC | | % | 15 |
| 9938922 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/05/30 | | 105 | % | 85 - 115 |
| 9938922 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/05/30 | | 97 | % | 80 - 120 |
| 9938922 | SSI | Method Blank | Total Organic Carbon (C) | 2025/05/30 | <0.50 | | mg/L | |
| 9938922 | SSI | RPD | Total Organic Carbon (C) | 2025/05/30 | 0.47 | | % | 15 |
| 9939060 | ABJ | Matrix Spike | Isobutylbenzene - Extractable | 2025/06/02 | | 89 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/02 | | 85 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/02 | | 80 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/02 | | 85 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/02 | | 78 | % | 70 - 130 |
| 9939060 | ABJ | Spiked Blank | Isobutylbenzene - Extractable | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/02 | | 95 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/02 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/02 | | 89 | % | 70 - 130 |
| 9939060 | ABJ | Method Blank | Isobutylbenzene - Extractable | 2025/06/02 | | 104 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/02 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/06/02 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/06/02 | <0.090 | | mg/L | |
| 9939060 | ABJ | RPD [AREW03-06] | >C10-C16 Hydrocarbons | 2025/06/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/06/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/02 | NC | | % | 40 |
| 9940076 | M2C | Spiked Blank | pH | 2025/06/02 | | 99 | % | 97 - 103 |
| 9940076 | M2C | RPD | pH | 2025/06/02 | 0.35 | | % | N/A |
| 9940084 | M2C | Spiked Blank | Conductivity | 2025/06/02 | | 99 | % | 80 - 120 |
| 9940084 | M2C | Method Blank | Conductivity | 2025/06/02 | <1.0 | | uS/cm | |
| 9940084 | M2C | RPD | Conductivity | 2025/06/02 | 0 | | % | 10 |
| 9940085 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/06/02 | | 97 | % | 80 - 120 |
| 9940085 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/06/02 | <2.0 | | mg/L | |
| 9940085 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/06/02 | 2.3 | | % | 20 |
| 9940086 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/06/02 | | 93 | % | 80 - 120 |
| 9940086 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/06/02 | | 99 | % | 80 - 120 |
| 9940086 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/06/02 | <0.10 | | mg/L | |
| 9940086 | M2C | RPD | Dissolved Fluoride (F-) | 2025/06/02 | NC | | % | 20 |
| 9940089 | M2C | Spiked Blank | pH | 2025/06/02 | | 99 | % | 97 - 103 |
| 9940089 | M2C | RPD | pH | 2025/06/02 | 1.6 | | % | N/A |
| 9940091 | M2C | Spiked Blank | Conductivity | 2025/06/02 | | 97 | % | 80 - 120 |
| 9940091 | M2C | Method Blank | Conductivity | 2025/06/02 | <1.0 | | uS/cm | |
| 9940091 | M2C | RPD | Conductivity | 2025/06/02 | 0.88 | | % | 10 |
| 9940093 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/06/02 | | 98 | % | 80 - 120 |
| 9940093 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/06/02 | <2.0 | | mg/L | |
| 9940093 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/06/02 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9940094 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/06/02 | | 88 | % | 80 - 120 |
| 9940094 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/06/02 | | 96 | % | 80 - 120 |
| 9940094 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/06/02 | <0.10 | | mg/L | |
| 9940094 | M2C | RPD | Dissolved Fluoride (F-) | 2025/06/02 | NC | | % | 20 |
| 9940693 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/06/03 | | 96 | % | 80 - 120 |
| 9940693 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/03 | | 94 | % | 80 - 120 |
| 9940693 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/03 | <0.050 | | mg/L | |
| 9940693 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/06/03 | 0.68 | | % | 20 |
| 9941791 | MOA | Matrix Spike | Total Iron (Fe) | 2025/06/04 | | 107 | % | 80 - 120 |
| 9941791 | MOA | Spiked Blank | Total Iron (Fe) | 2025/06/04 | | 103 | % | 80 - 120 |
| 9941791 | MOA | Method Blank | Total Iron (Fe) | 2025/06/04 | <50 | | ug/L | |
| 9941791 | MOA | RPD | Total Iron (Fe) | 2025/06/04 | 1.2 | | % | 20 |
| 9941866 | MCN | Matrix Spike [AREW01-10] | Nitrogen (Ammonia Nitrogen) | 2025/06/04 | | 100 | % | 80 - 120 |
| 9941866 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/04 | | 97 | % | 80 - 120 |
| 9941866 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/04 | <0.050 | | mg/L | |
| 9941866 | MCN | RPD [AREW01-10] | Nitrogen (Ammonia Nitrogen) | 2025/06/04 | NC | | % | 20 |
| 9942201 | M2C | QC Standard | Turbidity | 2025/06/04 | | 109 | % | 80 - 120 |
| 9942201 | M2C | Spiked Blank | Turbidity | 2025/06/04 | | 99 | % | 80 - 120 |
| 9942201 | M2C | Method Blank | Turbidity | 2025/06/04 | <0.10 | | NTU | |
| 9942201 | M2C | RPD | Turbidity | 2025/06/04 | 0 | | % | 20 |
| 9944805 | MCN | Matrix Spike [AREW02-02] | Dissolved Chloride (Cl-) | 2025/06/09 | | 96 | % | 80 - 120 |
| 9944805 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/06/09 | | 93 | % | 80 - 120 |
| 9944805 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/06/09 | <1.0 | | mg/L | |
| 9944805 | MCN | RPD [AREW02-02] | Dissolved Chloride (Cl-) | 2025/06/09 | 3.6 | | % | 20 |
| 9944819 | MCN | Matrix Spike [AREW02-02] | Dissolved Sulphate (SO4) | 2025/06/09 | | 104 | % | 80 - 120 |
| 9944819 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/06/09 | | 98 | % | 80 - 120 |
| 9944819 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/06/09 | <2.0 | | mg/L | |
| 9944819 | MCN | RPD [AREW02-02] | Dissolved Sulphate (SO4) | 2025/06/09 | NC | | % | 20 |
| 9944820 | MCN | Matrix Spike [AREW02-02] | Reactive Silica (SiO2) | 2025/06/09 | | 98 | % | 80 - 120 |
| 9944820 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/06/09 | | 97 | % | 80 - 120 |
| 9944820 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/06/09 | <0.50 | | mg/L | |
| 9944820 | MCN | RPD [AREW02-02] | Reactive Silica (SiO2) | 2025/06/09 | 0.51 | | % | 20 |
| 9944822 | MCN | Spiked Blank | Colour | 2025/06/09 | | 116 | % | 80 - 120 |
| 9944822 | MCN | Method Blank | Colour | 2025/06/09 | <5.0 | | TCU | |
| 9944822 | MCN | RPD [AREW02-02] | Colour | 2025/06/09 | 16 | | % | 20 |
| 9944823 | MCN | Matrix Spike [AREW02-02] | Orthophosphate (P) | 2025/06/09 | | 91 | % | 80 - 120 |
| 9944823 | MCN | Spiked Blank | Orthophosphate (P) | 2025/06/09 | | 97 | % | 80 - 120 |
| 9944823 | MCN | Method Blank | Orthophosphate (P) | 2025/06/09 | <0.010 | | mg/L | |
| 9944823 | MCN | RPD [AREW02-02] | Orthophosphate (P) | 2025/06/09 | NC | | % | 20 |
| 9944826 | MCN | Matrix Spike [AREW02-02] | Nitrate + Nitrite (N) | 2025/06/09 | | 99 | % | 80 - 120 |
| 9944826 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/06/09 | | 106 | % | 80 - 120 |
| 9944826 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/06/09 | <0.050 | | mg/L | |
| 9944826 | MCN | RPD [AREW02-02] | Nitrate + Nitrite (N) | 2025/06/09 | 18 | | % | 20 |
| 9944828 | MCN | Matrix Spike [AREW02-02] | Nitrite (N) | 2025/06/09 | | 92 | % | 80 - 120 |
| 9944828 | MCN | Spiked Blank | Nitrite (N) | 2025/06/09 | | 99 | % | 80 - 120 |



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Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9944828 | MCN | Method Blank | Nitrite (N) | 2025/06/09 | <0.010 | | mg/L | |
| 9944828 | MCN | RPD [AREW02-02] | Nitrite (N) | 2025/06/09 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.



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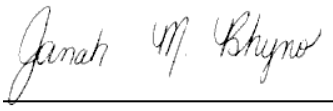
Bureau Veritas Job #: C559920
Report Date: 2025/06/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

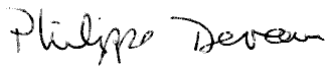
## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

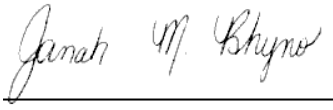


Janah Rhyno, Scientific Specialist



Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases



Bureau Veritas Certified by Janah Rhyno, Scientific Specialist

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K301811

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Jun 04, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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# Certificate of Analysis

AGAT WORK ORDER: 25K301811

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-05-29

DATE REPORTED: 2025-06-04

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-05-28 13:35 | 2025-05-28 13:50 | 2025-05-28 12:05 |
| Parameter | Unit | G / S | RDL | | 6772714 | 6772722 | 6772723 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 411 | 345 | 345 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 33 | 1 | 1 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 4.11 | 3.45 | 3.45 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.33 | 0.01 | 0.01 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6772714-6772723 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K301811

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: Jun 04, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 6772723 | | 345 | 365 | 5.6% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 6772723 | | 1 | <1 | NA | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 6772723 | | 3.45 | 3.65 | 5.6% | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 6772723 | | 0.01 | <0.01 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K301811

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

Unit 1 • 57 Old Pennywell Rd
St John's, NL
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P: 709.747.8573

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## Chain of Custody Record

**Laboratory Use Only**

Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 11.4, 11.0, 11.5
Hold Time:
AGAT Job Number: 25K301811
Notes: Sample arrival temperature reflects collection temperature (<24 hours from collection)

**Report Information**

Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):

1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**

☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**

**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐

Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 2025_05_28/13:35 | water | 1 | |
| WQM-4 | 2025_05_28/13:50 | water | 1 | |
| WQM-5 | 2025_05_28/12:05 | water | 1 | |

| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | ☑ | | |
| | | | | | | | | | | | | | | | | | | | | ☑ | | |
| | | | | | | | | | | | | | | | | | | | | ☑ | | |

| Samples Relinquished By (Print Name): | Date/Time | Samples Received By (Print Name): | Date/Time |
|---|---|---|---|
| [signature] | May 29/25 | Versha Jagwani | May 29/25 |
| Samples Relinquished By (Sign): | Date/Time | Samples Received By (Sign): | Date/Time |
| | 11:58 | [signature] | 12:00 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page ☐ of ☐
N°:



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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/16**
Report #: R8558327
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C563045**
**Received: 2025/05/30, 09:42**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 2 | N/A | 2025/06/10 | N/A | SM 24 4500-CO2 D |
| Carbonate, Bicarbonate and Hydroxide | 1 | N/A | 2025/06/09 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 1 | N/A | 2025/06/06 | ATL SOP 00142 | SM 24 2320 B |
| Alkalinity | 2 | N/A | 2025/06/09 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/06/05 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/06/16 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/06/11 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/06/16 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 1 | N/A | 2025/06/06 | ATL SOP 00004 | SM 24 2510B m |
| Conductance - water | 2 | N/A | 2025/06/09 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/06/02 | 2025/06/03 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 1 | N/A | 2025/06/06 | ATL SOP 00043 | SM 24 4500-F- C m |
| Fluoride | 2 | N/A | 2025/06/09 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/06/02 | | |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/06/04 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/06/06 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/06/04 | 2025/06/04 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/06/04 | 2025/06/04 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/06/09 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/06/02 | 2025/06/03 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/06/04 | 2025/06/05 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/06/16 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/06/10 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/06/09 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/06/16 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/06/16 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/06/16 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/06/02 | 2025/06/04 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 1 | N/A | 2025/06/06 | ATL SOP 00003 | SM 24 4500-H+ B m |
| pH (3) | 2 | N/A | 2025/06/09 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/06/16 | ATL SOP 00021 | SM 24 4500-P E m |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/16**
Report #: R8558327
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C563045**
**Received: 2025/05/30, 09:42**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/06/16 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/06/16 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/06/16 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/06/16 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/06/16 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/06/06 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/06/04 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/06/04 | 2025/06/05 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/06/11 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/06/02 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/06/03 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/16**
Report #: R8558327
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C563045**

**Received: 2025/05/30, 09:42**

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.

Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ARKU64 | | | ARKU65 | | | ARKU66 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | | | 2025/05/28 13:10 | | | 2025/05/28 12:20 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-4 | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.690 | N/A | 9939826 | 0.470 | N/A | 9939826 | 0.590 | N/A | 9939826 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 27 | 1.0 | 9939821 | 17 | 1.0 | 9939821 | 23 | 1.0 | 9939821 |
| Calculated TDS | mg/L | 41 | 1.0 | 9939832 | 28 | 1.0 | 9939832 | 35 | 1.0 | 9939832 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9939821 | <1.0 | 1.0 | 9939821 | <1.0 | 1.0 | 9939821 |
| Cation Sum | me/L | 0.810 | N/A | 9939826 | 0.550 | N/A | 9939826 | 0.670 | N/A | 9939826 |
| Hardness (CaCO3) | mg/L | 32 | 1.0 | 9939823 | 20 | 1.0 | 9939823 | 26 | 1.0 | 9939823 |
| Ion Balance (% Difference) | % | 8.00 | N/A | 9939824 | 7.84 | N/A | 9939824 | 6.35 | N/A | 9939824 |
| Langelier Index (@ 20C) | N/A | -1.44 | | 9939830 | -1.87 | | 9939830 | -1.84 | | 9939830 |
| Langelier Index (@ 4C) | N/A | -1.69 | | 9939831 | -2.12 | | 9939831 | -2.09 | | 9939831 |
| Nitrate (N) | mg/L | 0.16 | 0.050 | 9939828 | 0.072 | 0.050 | 9939828 | 0.12 | 0.050 | 9939828 |
| Saturation pH (@ 20C) | N/A | 8.86 | | 9939830 | 9.28 | | 9939830 | 9.04 | | 9939830 |
| Saturation pH (@ 4C) | N/A | 9.11 | | 9939831 | 9.53 | | 9939831 | 9.29 | | 9939831 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 27 | 2.0 | 9944031 | 17 | 2.0 | 9945063 | 23 | 2.0 | 9945063 |
| Dissolved Chloride (Cl-) | mg/L | 4.7 | 1.0 | 9949350 | 4.6 | 1.0 | 9949992 | 4.6 | 1.0 | 9949350 |
| Colour | TCU | 50 | 5.0 | 9950003 | 61 | 25 | 9949989 | 53 | 10 | 9950003 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9944033 | <0.10 | 0.10 | 9945065 | <0.10 | 0.10 | 9945065 |
| Nitrate + Nitrite (N) | mg/L | 0.16 | 0.050 | 9950008 | 0.072 | 0.050 | 9949987 | 0.12 | 0.050 | 9950008 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9950009 | <0.010 | 0.010 | 9949345 | <0.010 | 0.010 | 9950009 |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | 0.050 | 9945270 | 0.066 | 0.050 | 9944894 | 0.051 | 0.050 | 9945270 |
| Total Organic Carbon (C) | mg/L | 6.0 | 0.50 | 9943783 | 7.0 | 0.50 | 9943925 | 6.0 | 0.50 | 9943925 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9950006 | <0.010 | 0.010 | 9949988 | <0.010 | 0.010 | 9950006 |
| pH | pH | 7.42 | | 9944027 | 7.41 | | 9945059 | 7.20 | | 9945059 |
| Reactive Silica (SiO2) | mg/L | 3.8 | 0.50 | 9949998 | 2.3 | 0.50 | 9949990 | 3.1 | 0.50 | 9949998 |
| Total Suspended Solids | mg/L | 7.8 | 1.0 | 9941756 | 20 | 1.0 | 9941756 | 2.2 | 1.0 | 9941756 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9949993 | <2.0 | 2.0 | 9949991 | <2.0 | 2.0 | 9949993 |
| Turbidity | NTU | 3.7 | 0.10 | 9947194 | 3.0 | 0.10 | 9947194 | 0.64 | 0.10 | 9947194 |
| Conductivity | uS/cm | 73 | 1.0 | 9944029 | 53 | 1.0 | 9945061 | 64 | 1.0 | 9945061 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| **Bureau Veritas ID** | | ARKU66 | | |
|---|---|---|---|---|
| **Sampling Date** | | 2025/05/28 12:20 | | |
| **COC Number** | | N/A | | |
| | **UNITS** | **WQM-5 Lab-Dup** | **RDL** | **QC Batch** |
| **Inorganics** | | | | |
| Dissolved Chloride (Cl-) | mg/L | 4.6 | 1.0 | 9949350 |
| Colour | TCU | 46 | 10 | 9950003 |
| Nitrate + Nitrite (N) | mg/L | 0.11 | 0.050 | 9950008 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9950009 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9950006 |
| Reactive Silica (SiO2) | mg/L | 2.8 | 0.50 | 9949998 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9949993 |
| Turbidity | NTU | 0.81 | 0.10 | 9947194 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | ARKU66 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9940861 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9940857 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | | ARKU66 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 39 | 38 | 9945019 | 41 | 5.0 | 9945019 |
| Total Aluminum (Al) | ug/L | 70 | 85 | 9942298 | 49 | 5.0 | 9940379 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | 9945019 | <1.0 | 1.0 | 9945019 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | 9942298 | <1.0 | 1.0 | 9940379 |
| Dissolved Arsenic (As) | ug/L | <1.0 | <1.0 | 9945019 | <1.0 | 1.0 | 9945019 |
| Total Arsenic (As) | ug/L | 1.0 | <1.0 | 9942298 | <1.0 | 1.0 | 9940379 |
| Dissolved Barium (Ba) | ug/L | 11 | 6.5 | 9945019 | 11 | 1.0 | 9945019 |
| Total Barium (Ba) | ug/L | 9.3 | 8.2 | 9942298 | 11 | 1.0 | 9940379 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | 9945019 | <0.10 | 0.10 | 9945019 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | 9942298 | <0.10 | 0.10 | 9940379 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Boron (B) | ug/L | <50 | <50 | 9945019 | <50 | 50 | 9945019 |
| Total Boron (B) | ug/L | <50 | <50 | 9942298 | <50 | 50 | 9940379 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | 9945019 | <0.010 | 0.010 | 9945019 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | 9942298 | <0.010 | 0.010 | 9940379 |
| Dissolved Calcium (Ca) | ug/L | 10000 | 6200 | 9945019 | 7900 | 100 | 9945019 |
| Total Calcium (Ca) | ug/L | 9100 | 6300 | 9942298 | 7600 | 100 | 9940379 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | 9945019 | <1.0 | 1.0 | 9945019 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | 9942298 | <1.0 | 1.0 | 9940379 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | 9945019 | <0.40 | 0.40 | 9945019 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | 9942298 | <0.40 | 0.40 | 9940379 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | 9945019 | <0.50 | 0.50 | 9945019 |
| Total Copper (Cu) | ug/L | 0.72 | 0.61 | 9942298 | <0.50 | 0.50 | 9940379 |
| Dissolved Iron (Fe) | ug/L | 130 | 74 | 9945019 | 85 | 50 | 9945019 |
| Total Iron (Fe) | ug/L | 210 | 200 | 9942298 | 130 | 50 | 9940379 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | 9945019 | <0.50 | 0.50 | 9945019 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | 9942298 | <0.50 | 0.50 | 9940379 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Magnesium (Mg) | ug/L | 1700 | 1200 | 9945019 | 1400 | 100 | 9945019 |
| Total Magnesium (Mg) | ug/L | 1400 | 1100 | 9942298 | 1300 | 100 | 9940379 |
| Dissolved Manganese (Mn) | ug/L | 13 | <2.0 | 9945019 | 3.8 | 2.0 | 9945019 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | | ARKU66 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 27 | 41 | 9942298 | 12 | 2.0 | 9940379 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | 9945019 | <100 | 100 | 9945019 |
| Total Phosphorus (P) | ug/L | <100 | <100 | 9942298 | <100 | 100 | 9940379 |
| Dissolved Potassium (K) | ug/L | 240 | 190 | 9945019 | 220 | 100 | 9945019 |
| Total Potassium (K) | ug/L | 240 | 210 | 9942298 | 190 | 100 | 9940379 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | 9945019 | <0.50 | 0.50 | 9945019 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | 9942298 | <0.50 | 0.50 | 9940379 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | 9945019 | <0.10 | 0.10 | 9945019 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | 9942298 | <0.10 | 0.10 | 9940379 |
| Dissolved Sodium (Na) | ug/L | 3400 | 3000 | 9945019 | 3200 | 100 | 9945019 |
| Total Sodium (Na) | ug/L | 3000 | 2800 | 9942298 | 3000 | 100 | 9940379 |
| Dissolved Strontium (Sr) | ug/L | 32 | 21 | 9945019 | 27 | 2.0 | 9945019 |
| Total Strontium (Sr) | ug/L | 31 | 22 | 9942298 | 26 | 2.0 | 9940379 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | 9945019 | <0.10 | 0.10 | 9945019 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | 9942298 | <0.10 | 0.10 | 9940379 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Titanium (Ti) | ug/L | 2.9 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | 9945019 | <0.10 | 0.10 | 9945019 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | 9942298 | <0.10 | 0.10 | 9940379 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | 9945019 | <2.0 | 2.0 | 9945019 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | 9942298 | <2.0 | 2.0 | 9940379 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | 9945019 | <5.0 | 5.0 | 9945019 |
| Total Zinc (Zn) | ug/L | 10 | <5.0 | 9942298 | <5.0 | 5.0 | 9940379 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ARKU64 | | | ARKU64 | | | ARKU65 | ARKU66 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | | | 2025/05/28 13:48 | | | 2025/05/28 13:10 | 2025/05/28 12:20 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 1.2 | 0.6 | 9947607 | 1.5 | 0.6 | 9947607 | 0.8 | 0.7 | 0.6 | 9947607 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9939987 | | | | 1 | 1 | 1 | 9939987 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | ARKU66 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9940215 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9940215 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9940006 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9940215 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9940215 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 75 | 82 | 77 | | 9940215 |
| D14-Terphenyl | % | 74 | 80 | 77 | | 9940215 |
| D8-Acenaphthylene | % | 76 | 85 | 78 | | 9940215 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | ARKU66 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9939980 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9939980 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9939980 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9939980 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9939980 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9939980 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9939980 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | ARKU66 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9939980 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9939980 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9939980 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 96 | 96 | 96 | | 9939980 |
| D4-1,2-Dichloroethane | % | 113 | 111 | 114 | | 9939980 |
| D8-Toluene | % | 97 | 97 | 97 | | 9939980 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ARKU64 | ARKU65 | ARKU66 | | | ARKU66 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/05/28 13:48 | 2025/05/28 13:10 | 2025/05/28 12:20 | | | 2025/05/28 12:20 | | |
| COC Number | | N/A | N/A | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9940648 | <0.0010 | 0.0010 | 9940648 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9940648 | <0.0010 | 0.0010 | 9940648 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9940648 | <0.0010 | 0.0010 | 9940648 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9940648 | <0.0020 | 0.0020 | 9940648 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9940648 | <0.090 | 0.090 | 9940648 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9940312 | | | |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9940312 | | | |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9940312 | | | |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9940010 | | | |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9940312 | | | |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9940312 | | | |
| **Surrogate Recovery (%)** | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 91 | 92 | 96 | | 9940312 | | | |
| n-Dotriacontane - Extractable | % | 94 | 95 | 97 | | 9940312 | | | |
| Isobutylbenzene - Volatile | % | 108 | 109 | 108 | | 9940648 | 107 | | 9940648 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 9.5°C |

Note: Bottles in shipment, but bottles not listed on C of C -Amber unpreserved vials were received for each sample but not listed on COC. Vials held.

Sample ARKU64 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample ARKU65 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample ARKU66 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9939980 | ASL | Matrix Spike | 4-Bromofluorobenzene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/02 | | 114 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/02 | | 95 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/06/02 | | 102 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/06/02 | | 113 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/02 | | 110 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/06/02 | | 115 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/06/02 | | 109 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/06/02 | | 104 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/06/02 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/06/02 | | 102 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/06/02 | | 108 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Bromoform | 2025/06/02 | | 117 | % | 70 - 130 |
| | | | Bromomethane | 2025/06/02 | | 105 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/06/02 | | 102 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/06/02 | | 99 | % | 70 - 130 |
| | | | Chloroethane | 2025/06/02 | | 103 | % | 60 - 140 |
| | | | Chloroform | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | Chloromethane | 2025/06/02 | | 106 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/06/02 | | 105 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/02 | | 92 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Styrene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/06/02 | | 91 | % | 70 - 130 |
| | | | Toluene | 2025/06/02 | | 96 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/06/02 | | 92 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/02 | | 101 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/06/02 | | 101 | % | 60 - 140 |
| | | | o-Xylene | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/06/02 | | 94 | % | 70 - 130 |
| 9939980 | ASL | Spiked Blank | 4-Bromofluorobenzene | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/02 | | 108 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/02 | | 95 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/06/02 | | 102 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/06/02 | | 102 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/06/02 | | 110 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/02 | | 107 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/06/02 | | 111 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/06/02 | | 106 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/06/02 | | 107 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloropropane | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/06/02 | | 104 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/06/02 | | 99 | % | 70 - 130 |
| | | | Bromoform | 2025/06/02 | | 115 | % | 70 - 130 |
| | | | Bromomethane | 2025/06/02 | | 102 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/06/02 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Chloroethane | 2025/06/02 | | 103 | % | 60 - 140 |
| | | | Chloroform | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | Chloromethane | 2025/06/02 | | 105 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/06/02 | | 103 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/02 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/02 | | 101 | % | 70 - 130 |
| | | | Styrene | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/06/02 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/06/02 | | 93 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/02 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/06/02 | | 101 | % | 60 - 140 |
| | | | o-Xylene | 2025/06/02 | | 100 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/06/02 | | 96 | % | 70 - 130 |
| 9939980 | ASL | Method Blank | 4-Bromofluorobenzene | 2025/06/02 | | 97 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/02 | | 108 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/02 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/02 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/06/02 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/06/02 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/06/02 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/02 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/06/02 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/06/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/06/02 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/06/02 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/06/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/06/02 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/06/02 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/06/02 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/06/02 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Benzene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/06/02 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/06/02 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/06/02 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/06/02 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/06/02 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/06/02 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Chloromethane | 2025/06/02 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/06/02 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/02 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/02 | <2.0 | | ug/L | |
| | | | Styrene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Toluene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/06/02 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/02 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/06/02 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/06/02 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/06/02 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/06/02 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/06/02 | <1.0 | | ug/L | |
| 9939980 | ASL | RPD | 1,1-Dichloroethane | 2025/06/02 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/06/02 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/06/02 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/06/02 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/02 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/06/02 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/06/02 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/06/02 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/06/02 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/06/02 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/06/02 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/06/02 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/06/02 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/06/02 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/06/02 | NC | | % | 40 |
| | | | Benzene | 2025/06/02 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/06/02 | NC | | % | 40 |
| | | | Bromoform | 2025/06/02 | NC | | % | 40 |
| | | | Bromomethane | 2025/06/02 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/06/02 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/06/02 | NC | | % | 40 |
| | | | Chloroethane | 2025/06/02 | NC | | % | 40 |
| | | | Chloroform | 2025/06/02 | NC | | % | 40 |
| | | | Chloromethane | 2025/06/02 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/06/02 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/02 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/06/02 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/02 | NC | | % | 40 |
| | | | Styrene | 2025/06/02 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/06/02 | NC | | % | 40 |
| | | | Toluene | 2025/06/02 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/06/02 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/02 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/06/02 | NC | | % | 40 |
| | | | o-Xylene | 2025/06/02 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/06/02 | NC | | % | 40 |
| | | | Total Xylenes | 2025/06/02 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Trihalomethanes | 2025/06/02 | NC | | % | 40 |
| 9940215 | EPA | Matrix Spike | D10-Anthracene | 2025/06/04 | | 88 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/04 | | 90 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/04 | | 97 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/04 | | 96 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/06/04 | | 101 | % | 50 - 130 |
| | | | Acenaphthene | 2025/06/04 | | 97 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/06/04 | | 101 | % | 50 - 130 |
| | | | Anthracene | 2025/06/04 | | 100 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/06/04 | | 110 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/06/04 | | 105 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/06/04 | | 106 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/06/04 | | 104 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/06/04 | | 115 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/06/04 | | 109 | % | 50 - 130 |
| | | | Chrysene | 2025/06/04 | | 111 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/06/04 | | 102 | % | 50 - 130 |
| | | | Fluoranthene | 2025/06/04 | | 107 | % | 50 - 130 |
| | | | Fluorene | 2025/06/04 | | 94 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/04 | | 104 | % | 50 - 130 |
| | | | Naphthalene | 2025/06/04 | | 96 | % | 50 - 130 |
| | | | Perylene | 2025/06/04 | | 102 | % | 50 - 130 |
| | | | Phenanthrene | 2025/06/04 | | 110 | % | 50 - 130 |
| | | | Pyrene | 2025/06/04 | | 106 | % | 50 - 130 |
| 9940215 | EPA | Spiked Blank | D10-Anthracene | 2025/06/04 | | 88 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/04 | | 86 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/04 | | 94 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/04 | | 98 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/06/04 | | 104 | % | 50 - 130 |
| | | | Acenaphthene | 2025/06/04 | | 100 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/06/04 | | 103 | % | 50 - 130 |
| | | | Anthracene | 2025/06/04 | | 106 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/06/04 | | 106 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/06/04 | | 105 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/06/04 | | 109 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/06/04 | | 101 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/06/04 | | 116 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/06/04 | | 110 | % | 50 - 130 |
| | | | Chrysene | 2025/06/04 | | 111 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/06/04 | | 97 | % | 50 - 130 |
| | | | Fluoranthene | 2025/06/04 | | 107 | % | 50 - 130 |
| | | | Fluorene | 2025/06/04 | | 96 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/04 | | 104 | % | 50 - 130 |
| | | | Naphthalene | 2025/06/04 | | 98 | % | 50 - 130 |
| | | | Perylene | 2025/06/04 | | 101 | % | 50 - 130 |
| | | | Phenanthrene | 2025/06/04 | | 111 | % | 50 - 130 |
| | | | Pyrene | 2025/06/04 | | 107 | % | 50 - 130 |
| 9940215 | EPA | Method Blank | D10-Anthracene | 2025/06/04 | | 83 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/04 | | 81 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/04 | | 83 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/04 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/06/04 | <0.050 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/06/04 | <0.20 | | ug/L | |
| | | | Perylene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/06/04 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/06/04 | <0.010 | | ug/L | |
| 9940215 | EPA | RPD | 1-Methylnaphthalene | 2025/06/04 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/06/04 | NC | | % | 40 |
| | | | Acenaphthene | 2025/06/04 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/06/04 | NC | | % | 40 |
| | | | Anthracene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/06/04 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/06/04 | NC | | % | 40 |
| | | | Chrysene | 2025/06/04 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/06/04 | NC | | % | 40 |
| | | | Fluoranthene | 2025/06/04 | NC | | % | 40 |
| | | | Fluorene | 2025/06/04 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/04 | NC | | % | 40 |
| | | | Naphthalene | 2025/06/04 | NC | | % | 40 |
| | | | Perylene | 2025/06/04 | NC | | % | 40 |
| | | | Phenanthrene | 2025/06/04 | NC | | % | 40 |
| | | | Pyrene | 2025/06/04 | NC | | % | 40 |
| 9940312 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/06/03 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/03 | | 107 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/03 | | 91 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/03 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/03 | | 95 | % | 70 - 130 |
| 9940312 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/06/03 | | 95 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/03 | | 102 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/03 | | 91 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/03 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/03 | | 94 | % | 70 - 130 |
| 9940312 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/06/03 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/03 | | 96 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/03 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/06/03 | <0.050 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | >C21-<C32 Hydrocarbons | 2025/06/03 | <0.090 | | mg/L | |
| 9940312 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/06/03 | 1.8 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/06/03 | 0.85 | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/03 | 5.0 | | % | 40 |
| 9940379 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/06/03 | | 105 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/03 | | 106 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/03 | | NC | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/03 | | 108 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/03 | | 110 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/03 | | 106 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/03 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/06/03 | | 111 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/03 | | 106 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/03 | | 106 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/03 | | 102 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/03 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/03 | | 107 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/03 | | 111 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/03 | | 105 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/03 | | 104 | % | 80 - 120 |
| 9940379 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/06/03 | | 97 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/03 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/03 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/03 | | 108 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/03 | | 96 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/03 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/03 | | 98 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/03 | | 103 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/03 | | 99 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Molybdenum (Mo) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/03 | | 101 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/03 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/03 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/06/03 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/03 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/03 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/03 | | 100 | % | 80 - 120 |
| 9940379 | MOA | Method Blank | Total Aluminum (Al) | 2025/06/03 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/06/03 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/06/03 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/06/03 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/06/03 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/06/03 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/06/03 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/06/03 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/06/03 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/06/03 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/06/03 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/06/03 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/06/03 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/06/03 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/06/03 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/06/03 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/06/03 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/06/03 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/06/03 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/06/03 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/06/03 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/06/03 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/06/03 | <5.0 | | ug/L | |
| 9940379 | MOA | RPD | Total Copper (Cu) | 2025/06/03 | 13 | | % | 20 |
| 9940648 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/06/03 | | 107 | % | 70 - 130 |
| | | | Benzene | 2025/06/03 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/06/03 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/03 | | 99 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/03 | | 101 | % | 70 - 130 |
| 9940648 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/06/03 | | 113 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzene | 2025/06/03 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/06/03 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/03 | | 98 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/03 | | 100 | % | 70 - 130 |
| 9940648 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/06/03 | | 113 | % | 70 - 130 |
| | | | Benzene | 2025/06/03 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/06/03 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/06/03 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/06/03 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/06/03 | <0.090 | | mg/L | |
| 9940648 | THL | RPD [ARKU66-11] | Benzene | 2025/06/03 | NC | | % | 40 |
| | | | Toluene | 2025/06/03 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/06/03 | NC | | % | 40 |
| | | | Total Xylenes | 2025/06/03 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/06/03 | NC | | % | 40 |
| 9940857 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/06/04 | | 99 | % | 80 - 120 |
| 9940857 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/06/04 | | 97 | % | 80 - 120 |
| 9940857 | JEP | Method Blank | Total Mercury (Hg) | 2025/06/04 | <0.013 | | ug/L | |
| 9940857 | JEP | RPD | Total Mercury (Hg) | 2025/06/04 | NC | | % | 20 |
| 9940861 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/06/04 | | 98 | % | 80 - 120 |
| 9940861 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/06/04 | | 96 | % | 80 - 120 |
| 9940861 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/06/04 | <0.013 | | ug/L | |
| 9940861 | JEP | RPD | Dissolved Mercury (Hg) | 2025/06/04 | NC | | % | 20 |
| 9941756 | RD4 | QC Standard | Total Suspended Solids | 2025/06/05 | | 99 | % | 80 - 120 |
| 9941756 | RD4 | Method Blank | Total Suspended Solids | 2025/06/05 | <1.0 | | mg/L | |
| 9941756 | RD4 | RPD | Total Suspended Solids | 2025/06/05 | 9.0 | | % | 20 |
| 9942298 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/06/05 | | NC | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/06/05 | | 109 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/05 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/05 | | 97 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/05 | | 97 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/05 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/05 | | 100 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/05 | | NC | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/05 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/06/05 | | 107 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/05 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/05 | | 102 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/05 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/05 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/05 | | 91 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/05 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Tin (Sn) | 2025/06/05 | | 105 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/05 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/05 | | 109 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/05 | | 100 | % | 80 - 120 |
| 9942298 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/06/05 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/06/05 | | 109 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/05 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/05 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/05 | | 100 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/05 | | 106 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/05 | | 105 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/05 | | 99 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/05 | | 105 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/06/05 | | 107 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/05 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/05 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/05 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/05 | | 102 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/05 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/05 | | 106 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/06/05 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/05 | | 106 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/05 | | 110 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/05 | | 103 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/05 | | 104 | % | 80 - 120 |
| 9942298 | MTZ | Method Blank | Total Aluminum (Al) | 2025/06/05 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/06/05 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/06/05 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/06/05 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/06/05 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/06/05 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/06/05 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/06/05 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/06/05 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/06/05 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/06/05 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/06/05 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/06/05 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/06/05 | <100 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Manganese (Mn) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/06/05 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/06/05 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/06/05 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/06/05 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/06/05 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/06/05 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/06/05 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/06/05 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/06/05 | <5.0 | | ug/L | |
| 9942298 | MTZ | RPD | Total Aluminum (Al) | 2025/06/06 | 4.1 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/06/06 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/06/06 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/06/06 | 0.91 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/06/06 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/06/06 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/06/06 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/06/06 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/06/06 | 0.28 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/06/06 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/06/06 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/06/06 | 2.0 | | % | 20 |
| | | | Total Iron (Fe) | 2025/06/06 | 0.93 | | % | 20 |
| | | | Total Lead (Pb) | 2025/06/06 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/06/06 | 0.98 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/06/06 | 0.33 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/06/06 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/06/06 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/06/06 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/06/06 | 0.91 | | % | 20 |
| | | | Total Selenium (Se) | 2025/06/06 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/06/06 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/06/06 | 0.37 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/06/06 | 1.6 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/06/06 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/06/06 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/06/06 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/06/06 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/06/06 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/06/06 | 3.2 | | % | 20 |
| 9943783 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/06/06 | | 95 | % | 85 - 115 |
| 9943783 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/06/06 | | 96 | % | 80 - 120 |
| 9943783 | SSI | Method Blank | Total Organic Carbon (C) | 2025/06/06 | <0.50 | | mg/L | |
| 9943783 | SSI | RPD | Total Organic Carbon (C) | 2025/06/06 | 9.1 | | % | 15 |
| 9943925 | SSI | Matrix Spike | Total Organic Carbon (C) | 2025/06/06 | | 104 | % | 85 - 115 |
| 9943925 | SSI | Spiked Blank | Total Organic Carbon (C) | 2025/06/06 | | 103 | % | 80 - 120 |
| 9943925 | SSI | Method Blank | Total Organic Carbon (C) | 2025/06/06 | <0.50 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9943925 | SSI | RPD | Total Organic Carbon (C) | 2025/06/06 | NC | | % | 15 |
| 9944027 | M2C | Spiked Blank | pH | 2025/06/06 | | 99 | % | 97 - 103 |
| 9944027 | M2C | RPD | pH | 2025/06/06 | 1.0 | | % | N/A |
| 9944029 | M2C | Spiked Blank | Conductivity | 2025/06/06 | | 98 | % | 80 - 120 |
| 9944029 | M2C | Method Blank | Conductivity | 2025/06/06 | <1.0 | | uS/cm | |
| 9944029 | M2C | RPD | Conductivity | 2025/06/06 | 0 | | % | 10 |
| 9944031 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/06/06 | | 94 | % | 80 - 120 |
| 9944031 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/06/06 | <2.0 | | mg/L | |
| 9944031 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/06/06 | NC | | % | 20 |
| 9944033 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/06/06 | | 90 | % | 80 - 120 |
| 9944033 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/06/06 | | 94 | % | 80 - 120 |
| 9944033 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/06/06 | <0.10 | | mg/L | |
| 9944033 | M2C | RPD | Dissolved Fluoride (F-) | 2025/06/06 | 0.90 | | % | 20 |
| 9944894 | KMC | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | | NC | % | 80 - 120 |
| 9944894 | KMC | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | | 97 | % | 80 - 120 |
| 9944894 | KMC | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | <0.050 | | mg/L | |
| 9944894 | KMC | RPD | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | 2.5 | | % | 20 |
| 9945019 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/06/09 | | 104 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/06/09 | | 97 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/09 | | 98 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/09 | | 95 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/09 | | 103 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/09 | | 109 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/09 | | 106 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/09 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/09 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/09 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/09 | | 102 | % | 80 - 120 |
| 9945019 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/06/09 | | 107 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/09 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Beryllium (Be) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/09 | | 98 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/09 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/09 | | 103 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/09 | | 103 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/09 | | 107 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/09 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/09 | | 105 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/09 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/09 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/09 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/09 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/09 | | 103 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/09 | | 108 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/09 | | 104 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/09 | | 104 | % | 80 - 120 |
| 9945019 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/06/09 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/06/09 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/06/09 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/06/09 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/06/09 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/06/09 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/06/09 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/06/09 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/06/09 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/06/09 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/06/09 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/06/09 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/06/09 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/06/09 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/06/09 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/06/09 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/06/09 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/06/09 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/06/09 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/06/09 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Thallium (Tl) | 2025/06/09 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/06/09 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/06/09 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/06/09 | <5.0 | | ug/L | |
| 9945019 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/06/09 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/06/09 | NC | | % | 20 |
| 9945059 | M2C | Spiked Blank | pH | 2025/06/09 | | 99 | % | 97 - 103 |
| 9945059 | M2C | RPD | pH | 2025/06/09 | 0.67 | | % | N/A |
| 9945061 | M2C | Spiked Blank | Conductivity | 2025/06/09 | | 100 | % | 80 - 120 |
| 9945061 | M2C | Method Blank | Conductivity | 2025/06/09 | <1.0 | | uS/cm | |
| 9945061 | M2C | RPD | Conductivity | 2025/06/09 | 0.32 | | % | 10 |
| 9945063 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/06/09 | | 97 | % | 80 - 120 |
| 9945063 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/06/09 | <2.0 | | mg/L | |
| 9945063 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/06/09 | 1.0 | | % | 20 |
| 9945065 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/06/09 | | 94 | % | 80 - 120 |
| 9945065 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/06/09 | | 97 | % | 80 - 120 |
| 9945065 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/06/09 | <0.10 | | mg/L | |
| 9945065 | M2C | RPD | Dissolved Fluoride (F-) | 2025/06/09 | NC | | % | 20 |
| 9945270 | KMC | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | | 88 | % | 80 - 120 |
| 9945270 | KMC | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | | 93 | % | 80 - 120 |
| 9945270 | KMC | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | <0.050 | | mg/L | |
| 9945270 | KMC | RPD | Nitrogen (Ammonia Nitrogen) | 2025/06/09 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9947194 | M2C | QC Standard | Turbidity | 2025/06/11 | | 110 | % | 80 - 120 |
| 9947194 | M2C | Spiked Blank | Turbidity | 2025/06/11 | | 99 | % | 80 - 120 |
| 9947194 | M2C | Method Blank | Turbidity | 2025/06/11 | <0.10 | | NTU | |
| 9947194 | M2C | RPD [ARKU66-02] | Turbidity | 2025/06/11 | NC | | % | 20 |
| 9947607 | VTH | Method Blank | Carbon Dioxide | 2025/06/11 | <0.6 | | L/m3 | |
| 9947607 | VTH | RPD [ARKU64-13] | Carbon Dioxide | 2025/06/11 | NC | | % | 20 |
| 9949345 | MCN | Matrix Spike | Nitrite (N) | 2025/06/16 | | 94 | % | 80 - 120 |
| 9949345 | MCN | Spiked Blank | Nitrite (N) | 2025/06/16 | | 98 | % | 80 - 120 |
| 9949345 | MCN | Method Blank | Nitrite (N) | 2025/06/16 | <0.010 | | mg/L | |
| 9949345 | MCN | RPD | Nitrite (N) | 2025/06/16 | NC | | % | 20 |
| 9949350 | MCN | Matrix Spike [ARKU66-02] | Dissolved Chloride (Cl-) | 2025/06/16 | | 93 | % | 80 - 120 |
| 9949350 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/06/16 | | 97 | % | 80 - 120 |
| 9949350 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/06/16 | <1.0 | | mg/L | |
| 9949350 | MCN | RPD [ARKU66-02] | Dissolved Chloride (Cl-) | 2025/06/16 | 0.42 | | % | 20 |
| 9949987 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/06/16 | | 104 | % | 80 - 120 |
| 9949987 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/06/16 | | 109 | % | 80 - 120 |
| 9949987 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/06/16 | <0.050 | | mg/L | |
| 9949987 | MCN | RPD | Nitrate + Nitrite (N) | 2025/06/16 | 3.3 | | % | 20 |
| 9949988 | EMT | Matrix Spike | Orthophosphate (P) | 2025/06/16 | | 98 | % | 80 - 120 |
| 9949988 | EMT | Spiked Blank | Orthophosphate (P) | 2025/06/16 | | 99 | % | 80 - 120 |
| 9949988 | EMT | Method Blank | Orthophosphate (P) | 2025/06/16 | <0.010 | | mg/L | |
| 9949988 | EMT | RPD | Orthophosphate (P) | 2025/06/16 | NC | | % | 20 |
| 9949989 | EMT | Spiked Blank | Colour | 2025/06/16 | | 110 | % | 80 - 120 |
| 9949989 | EMT | Method Blank | Colour | 2025/06/16 | <5.0 | | TCU | |
| 9949989 | EMT | RPD | Colour | 2025/06/16 | NC | | % | 20 |
| 9949990 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/06/16 | | NC | % | 80 - 120 |
| 9949990 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/06/16 | | 98 | % | 80 - 120 |
| 9949990 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/06/16 | <0.50 | | mg/L | |
| 9949990 | MCN | RPD | Reactive Silica (SiO2) | 2025/06/16 | 2.0 | | % | 20 |
| 9949991 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/06/16 | | NC | % | 80 - 120 |
| 9949991 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/06/16 | | 100 | % | 80 - 120 |
| 9949991 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/06/16 | <2.0 | | mg/L | |
| 9949991 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/06/16 | 0.25 | | % | 20 |
| 9949992 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/06/16 | | NC | % | 80 - 120 |
| 9949992 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/06/16 | | 97 | % | 80 - 120 |
| 9949992 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/06/16 | <1.0 | | mg/L | |
| 9949992 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/06/16 | 0.28 | | % | 20 |
| 9949993 | MCN | Matrix Spike [ARKU66-02] | Dissolved Sulphate (SO4) | 2025/06/16 | | 105 | % | 80 - 120 |
| 9949993 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/06/16 | | 100 | % | 80 - 120 |
| 9949993 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/06/16 | <2.0 | | mg/L | |
| 9949993 | MCN | RPD [ARKU66-02] | Dissolved Sulphate (SO4) | 2025/06/16 | NC | | % | 20 |
| 9949998 | MCN | Matrix Spike [ARKU66-02] | Reactive Silica (SiO2) | 2025/06/16 | | 92 | % | 80 - 120 |
| 9949998 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/06/16 | | 97 | % | 80 - 120 |
| 9949998 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/06/16 | <0.50 | | mg/L | |
| 9949998 | MCN | RPD [ARKU66-02] | Reactive Silica (SiO2) | 2025/06/16 | 10 | | % | 20 |
| 9950003 | EMT | Spiked Blank | Colour | 2025/06/16 | | 99 | % | 80 - 120 |
| 9950003 | EMT | Method Blank | Colour | 2025/06/16 | <5.0 | | TCU | |
| 9950003 | EMT | RPD [ARKU66-02] | Colour | 2025/06/16 | 14 | | % | 20 |
| 9950006 | EMT | Matrix Spike [ARKU66-02] | Orthophosphate (P) | 2025/06/16 | | 95 | % | 80 - 120 |
| 9950006 | EMT | Spiked Blank | Orthophosphate (P) | 2025/06/16 | | 99 | % | 80 - 120 |
| 9950006 | EMT | Method Blank | Orthophosphate (P) | 2025/06/16 | <0.010 | | mg/L | |
| 9950006 | EMT | RPD [ARKU66-02] | Orthophosphate (P) | 2025/06/16 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9950008 | MCN | Matrix Spike [ARKU66-02] | Nitrate + Nitrite (N) | 2025/06/16 | | 105 | % | 80 - 120 |
| 9950008 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/06/16 | | 105 | % | 80 - 120 |
| 9950008 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/06/16 | <0.050 | | mg/L | |
| 9950008 | MCN | RPD [ARKU66-02] | Nitrate + Nitrite (N) | 2025/06/16 | 2.3 | | % | 20 |
| 9950009 | MCN | Matrix Spike [ARKU66-02] | Nitrite (N) | 2025/06/16 | | 95 | % | 80 - 120 |
| 9950009 | MCN | Spiked Blank | Nitrite (N) | 2025/06/16 | | 97 | % | 80 - 120 |
| 9950009 | MCN | Method Blank | Nitrite (N) | 2025/06/16 | <0.010 | | mg/L | |
| 9950009 | MCN | RPD [ARKU66-02] | Nitrite (N) | 2025/06/16 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Bureau Veritas Job #: C563045
Report Date: 2025/06/16

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Janah Rhyno, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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AGAT Laboratories

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http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: CAROLYN ANSTEY-MOORE

PROJECT: 21-10333

AGAT WORK ORDER: 25K308786

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Jun 20, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
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AGAT Laboratories

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http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K308786

PROJECT: 21-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: CAROLYN ANSTEY-MOORE

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-06-11

DATE REPORTED: 2025-06-20

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-06-11 09:16 | 2025-06-11 08:38 | 2025-06-11 07:56 |
| Parameter | Unit | G / S | RDL | | 6809202 | 6809204 | 6809205 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | >2420 | >2420 | 980 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 166 | 15 | 22 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | >24.20 | >24.20 | 9.80 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 1.66 | 0.15 | 0.22 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6809202-6809205 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K308786

PROJECT: 21-10333

ATTENTION TO: CAROLYN ANSTEY-MOORE

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: Jun 20, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6809205 | 980 | 1046 | 6.5% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6809205 | 22 | 19 | 14.6% | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 1 | 6809205 | 9.80 | 10.46 | 6.5% | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 1 | 6809205 | 0.22 | 0.19 | 14.6% | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K308786

PROJECT: 21-10333

ATTENTION TO: CAROLYN ANSTEY-MOORE

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

Unit 1 • 57 Old Pennywell Rd
St John's, NL
A1E 6A8
P: 709.747.8573

webearth.agatlabs.com • www.agatlabs.com

## Chain of Custody Record

**Laboratory Use Only**
Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 13.1, 13.3, 13.4
Hold Time:
AGAT Job Number: 25K308786
Notes:

### Report Information
Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):
1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

### Report Format
☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

### Turnaround Time Required (TAT)
**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

### Invoice To
Same Yes ☐ / No ☐
Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

### Regulatory Requirements (Check):
☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 2025-06-11 9:16 | water | 1 | |
| WQM-4 | " 8:38 | water | 1 | |
| WQM-5 | " 7:56 | water | 1 | |
| | | | | |
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| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |

| Samples Relinquished By (Print Name): | Date/Time | Samples Received By (Print Name): | Date/Time |
|---|---|---|---|
| Samples Relinquished By (Sign): | Date/Time | Samples Received By (Sign): | Date/Time |
| | | | June 11/25 1645 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page ☐ of ☐
N°:



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Your P.O. #: 24-103330TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/25**
Report #: R8564144
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C568905**
**Received: 2025/06/12, 09:29**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/06/23 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/06/20 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/06/16 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/06/24 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/06/23 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/06/24 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/06/20 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 1 | 2025/06/13 | 2025/06/13 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 2 | 2025/06/16 | 2025/06/16 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/06/20 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/06/12 | | |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/06/19 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/06/20 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/06/18 | 2025/06/18 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/06/18 | 2025/06/18 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 1 | N/A | 2025/06/19 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS- Lab Filtered (2) | 2 | N/A | 2025/06/20 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/06/18 | 2025/06/18 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/06/18 | 2025/06/19 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/06/24 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/06/23 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/06/19 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/06/23 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/06/23 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/06/24 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/06/13 | 2025/06/14 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/06/20 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/06/23 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/06/24 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/06/24 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/06/23 | ATL SOP 00022 | EPA 366.0 m |

Your P.O. #: 24-103330TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/25**
Report #: R8564144
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C568905**
**Received: 2025/06/12, 09:29**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Sulphate | 3 | N/A | 2025/06/24 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/06/24 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/06/19 | ATL SOP 00203 | SM 24 5310B m |
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/06/23 | ATL SOP 00203 | SM 24 5310B m |
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/06/24 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/06/17 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/06/17 | 2025/06/18 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/06/22 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/06/13 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/06/16 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-103330TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/06/25**
Report #: R8564144
Version: 3 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C568905**

**Received: 2025/06/12, 09:29**

(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C568905
Report Date: 2025/06/25

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-103330TASK 7

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ARVV93 | | | ARVV93 | | | ARVV94 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | | | 2025/06/11 09:16 | | | 2025/06/11 08:38 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 0.380 | N/A | 9947923 | | | | 0.530 | N/A | 9947923 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 15 | 1.0 | 9947918 | | | | 22 | 1.0 | 9947918 |
| Calculated TDS | mg/L | 25 | 1.0 | 9947928 | | | | 31 | 1.0 | 9947928 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9947918 | | | | <1.0 | 1.0 | 9947918 |
| Cation Sum | me/L | 0.520 | N/A | 9947923 | | | | 0.630 | N/A | 9947923 |
| Hardness (CaCO3) | mg/L | 19 | 1.0 | 9947920 | | | | 24 | 1.0 | 9947920 |
| Ion Balance (% Difference) | % | 15.6 | N/A | 9947921 | | | | 8.62 | N/A | 9947921 |
| Langelier Index (@ 20C) | N/A | -2.18 | | 9947926 | | | | -1.71 | | 9947926 |
| Langelier Index (@ 4C) | N/A | -2.43 | | 9947927 | | | | -1.96 | | 9947927 |
| Nitrate (N) | mg/L | 0.068 | 0.050 | 9947924 | | | | 0.066 | 0.050 | 9947924 |
| Saturation pH (@ 20C) | N/A | 9.35 | | 9947926 | | | | 9.10 | | 9947926 |
| Saturation pH (@ 4C) | N/A | 9.60 | | 9947927 | | | | 9.35 | | 9947927 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 15 | 2.0 | 9954293 | | | | 22 | 2.0 | 9954293 |
| Dissolved Chloride (Cl-) | mg/L | 2.8 | 1.0 | 9955233 | | | | 3.4 | 1.0 | 9955234 |
| Colour | TCU | 79 | 25 | 9955250 | | | | 46 | 5.0 | 9955258 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9954295 | | | | <0.10 | 0.10 | 9954295 |
| Nitrate + Nitrite (N) | mg/L | 0.068 | 0.050 | 9955253 | | | | 0.066 | 0.050 | 9955260 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9955254 | | | | <0.010 | 0.010 | 9955261 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9953066 | | | | <0.050 | 0.050 | 9953066 |
| Total Organic Carbon (C) | mg/L | 11 | 0.50 | 9954490 | | | | 7.3 | 0.50 | 9955401 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9955252 | | | | <0.010 | 0.010 | 9955259 |
| pH | pH | 7.17 | | 9954290 | | | | 7.39 | | 9954290 |
| Reactive Silica (SiO2) | mg/L | 3.0 | 0.50 | 9955248 | | | | 2.1 | 0.50 | 9955257 |
| Total Suspended Solids | mg/L | 22 | 2.0 | 9951650 | 22 | 2.0 | 9951650 | 7.0 | 1.0 | 9951650 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9955247 | | | | <2.0 | 2.0 | 9955255 |
| Turbidity | NTU | 1.2 | 0.10 | 9955130 | | | | 1.8 | 0.10 | 9955131 |
| Conductivity | uS/cm | 51 | 1.0 | 9954292 | | | | 64 | 1.0 | 9954292 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ARVV95 | | | ARVV95 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 07:56 | | | 2025/06/11 07:56 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Anion Sum | me/L | 0.530 | N/A | 9947923 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 22 | 1.0 | 9947918 | | | |
| Calculated TDS | mg/L | 32 | 1.0 | 9947928 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9947918 | | | |
| Cation Sum | me/L | 0.640 | N/A | 9947923 | | | |
| Hardness (CaCO3) | mg/L | 25 | 1.0 | 9947920 | | | |
| Ion Balance (% Difference) | % | 9.40 | N/A | 9947921 | | | |
| Langelier Index (@ 20C) | N/A | -1.50 | | 9947926 | | | |
| Langelier Index (@ 4C) | N/A | -1.75 | | 9947927 | | | |
| Nitrate (N) | mg/L | 0.091 | 0.050 | 9947924 | | | |
| Saturation pH (@ 20C) | N/A | 9.08 | | 9947926 | | | |
| Saturation pH (@ 4C) | N/A | 9.33 | | 9947927 | | | |
| **Inorganics** | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 22 | 2.0 | 9954293 | | | |
| Dissolved Chloride (Cl-) | mg/L | 2.9 | 1.0 | 9955234 | | | |
| Colour | TCU | 44 | 5.0 | 9955258 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9954295 | | | |
| Nitrate + Nitrite (N) | mg/L | 0.091 | 0.050 | 9955260 | | | |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9955261 | | | |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9953066 | | | |
| Total Organic Carbon (C) | mg/L | 6.3 | 0.50 | 9952252 | 6.2 | 0.50 | 9952252 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9955259 | | | |
| pH | pH | 7.58 | | 9954290 | | | |
| Reactive Silica (SiO2) | mg/L | 2.5 | 0.50 | 9955257 | | | |
| Total Suspended Solids | mg/L | 3.6 | 1.0 | 9951650 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9955255 | | | |
| Turbidity | NTU | 1.3 | 0.10 | 9955131 | | | |
| Conductivity | uS/cm | 64 | 1.0 | 9954292 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ARVV93 | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9951519 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9951539 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ARVV93 | | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | | N/A | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 73 | 9953310 | 30 | 29 | 5.0 | 9953677 |
| Total Aluminum (Al) | ug/L | 330 | 9952272 | 73 | 43 | 5.0 | 9952272 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 9953310 | <1.0 | <1.0 | 1.0 | 9953677 |
| Total Antimony (Sb) | ug/L | <1.0 | 9952272 | <1.0 | <1.0 | 1.0 | 9952272 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 9953310 | <1.0 | <1.0 | 1.0 | 9953677 |
| Total Arsenic (As) | ug/L | 2.4 | 9952272 | <1.0 | <1.0 | 1.0 | 9952272 |
| Dissolved Barium (Ba) | ug/L | 7.3 | 9953310 | 7.9 | 8.9 | 1.0 | 9953677 |
| Total Barium (Ba) | ug/L | 14 | 9952272 | 8.5 | 9.0 | 1.0 | 9952272 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 9953310 | <0.10 | <0.10 | 0.10 | 9953677 |
| Total Beryllium (Be) | ug/L | <0.10 | 9952272 | <0.10 | <0.10 | 0.10 | 9952272 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Bismuth (Bi) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Boron (B) | ug/L | <50 | 9953310 | <50 | <50 | 50 | 9953677 |
| Total Boron (B) | ug/L | <50 | 9952272 | <50 | <50 | 50 | 9952272 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 9953310 | <0.010 | <0.010 | 0.010 | 9953677 |
| Total Cadmium (Cd) | ug/L | 0.011 | 9952272 | <0.010 | <0.010 | 0.010 | 9952272 |
| Dissolved Calcium (Ca) | ug/L | 5700 | 9953310 | 7300 | 7500 | 100 | 9953677 |
| Total Calcium (Ca) | ug/L | 5900 | 9952272 | 7500 | 7000 | 100 | 9952272 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 9953310 | <1.0 | <1.0 | 1.0 | 9953677 |
| Total Chromium (Cr) | ug/L | <1.0 | 9952272 | <1.0 | <1.0 | 1.0 | 9952272 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 9953310 | <0.40 | <0.40 | 0.40 | 9953677 |
| Total Cobalt (Co) | ug/L | <0.40 | 9952272 | <0.40 | <0.40 | 0.40 | 9952272 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 9953310 | <0.50 | <0.50 | 0.50 | 9953677 |
| Total Copper (Cu) | ug/L | 0.64 | 9952272 | <0.50 | <0.50 | 0.50 | 9952272 |
| Dissolved Iron (Fe) | ug/L | 140 | 9953310 | 86 | 86 | 50 | 9953677 |
| Total Iron (Fe) | ug/L | 790 | 9952272 | 210 | 140 | 50 | 9952272 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 9953310 | <0.50 | <0.50 | 0.50 | 9953677 |
| Total Lead (Pb) | ug/L | <0.50 | 9952272 | <0.50 | <0.50 | 0.50 | 9952272 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Lithium (Li) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Magnesium (Mg) | ug/L | 1100 | 9953310 | 1400 | 1400 | 100 | 9953677 |
| Total Magnesium (Mg) | ug/L | 1200 | 9952272 | 1400 | 1300 | 100 | 9952272 |
| Dissolved Manganese (Mn) | ug/L | 7.6 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ARVV93 | | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | | N/A | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 140 | 9952272 | 33 | 21 | 2.0 | 9952272 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Nickel (Ni) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Phosphorus (P) | ug/L | <100 | 9953310 | <100 | <100 | 100 | 9953677 |
| Total Phosphorus (P) | ug/L | <100 | 9952272 | <100 | <100 | 100 | 9952272 |
| Dissolved Potassium (K) | ug/L | 210 | 9953310 | 210 | 210 | 100 | 9953677 |
| Total Potassium (K) | ug/L | 200 | 9952272 | 220 | 210 | 100 | 9952272 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 9953310 | <0.50 | <0.50 | 0.50 | 9953677 |
| Total Selenium (Se) | ug/L | <0.50 | 9952272 | <0.50 | <0.50 | 0.50 | 9952272 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 9953310 | <0.10 | <0.10 | 0.10 | 9953677 |
| Total Silver (Ag) | ug/L | <0.10 | 9952272 | <0.10 | <0.10 | 0.10 | 9952272 |
| Dissolved Sodium (Na) | ug/L | 3200 | 9953310 | 3400 | 3300 | 100 | 9953677 |
| Total Sodium (Na) | ug/L | 3000 | 9952272 | 3300 | 3000 | 100 | 9952272 |
| Dissolved Strontium (Sr) | ug/L | 21 | 9953310 | 25 | 26 | 2.0 | 9953677 |
| Total Strontium (Sr) | ug/L | 22 | 9952272 | 26 | 25 | 2.0 | 9952272 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 9953310 | <0.10 | <0.10 | 0.10 | 9953677 |
| Total Thallium (Tl) | ug/L | <0.10 | 9952272 | <0.10 | <0.10 | 0.10 | 9952272 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Tin (Sn) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Titanium (Ti) | ug/L | 15 | 9952272 | 2.1 | <2.0 | 2.0 | 9952272 |
| Dissolved Uranium (U) | ug/L | <0.10 | 9953310 | <0.10 | <0.10 | 0.10 | 9953677 |
| Total Uranium (U) | ug/L | <0.10 | 9952272 | <0.10 | <0.10 | 0.10 | 9952272 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 9953310 | <2.0 | <2.0 | 2.0 | 9953677 |
| Total Vanadium (V) | ug/L | <2.0 | 9952272 | <2.0 | <2.0 | 2.0 | 9952272 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 9953310 | <5.0 | <5.0 | 5.0 | 9953677 |
| Total Zinc (Zn) | ug/L | <5.0 | 9952272 | <5.0 | <5.0 | 5.0 | 9952272 |

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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ARVV93 | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.2 | 0.7 | 0.9 | 0.6 | 9955740 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 2 | 1 | 9948187 |

RDL = Reportable Detection Limit
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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ARVV93 | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9948861 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9948861 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9948260 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9948861 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9948861 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 79 | 77 | 78 | | 9948861 |
| D14-Terphenyl | % | 77 | 78 | 78 | | 9948861 |
| D8-Acenaphthylene | % | 78 | 77 | 81 | | 9948861 |

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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ARVV93 | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9948927 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9948927 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9948927 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9948927 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9948927 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9948927 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9948927 |

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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ARVV93 | ARVV94 | ARVV95 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | 2025/06/11 08:38 | 2025/06/11 07:56 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9948927 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9948927 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9948927 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 99 | 98 | 99 | | 9948927 |
| D4-1,2-Dichloroethane | % | 104 | 104 | 103 | | 9948927 |
| D8-Toluene | % | 99 | 99 | 99 | | 9948927 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ARVV93 | | ARVV94 | | | ARVV94 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/11 09:16 | | 2025/06/11 08:38 | | | 2025/06/11 08:38 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | |
| Benzene | mg/L | <0.0010 | 9950221 | <0.0010 | 0.0010 | 9950221 | | | |
| Toluene | mg/L | <0.0010 | 9950221 | <0.0010 | 0.0010 | 9950221 | | | |
| Ethylbenzene | mg/L | <0.0010 | 9950221 | <0.0010 | 0.0010 | 9950221 | | | |
| Total Xylenes | mg/L | <0.0020 | 9950221 | <0.0020 | 0.0020 | 9950221 | | | |
| C6 - C10 (less BTEX) | mg/L | <0.090 | 9950221 | <0.090 | 0.090 | 9950221 | | | |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | 9948943 | <0.050 | 0.050 | 9950050 | <0.050 | 0.050 | 9950050 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | 9948943 | <0.050 | 0.050 | 9950050 | <0.050 | 0.050 | 9950050 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | 9948943 | <0.090 | 0.090 | 9950050 | <0.090 | 0.090 | 9950050 |
| Modified TPH (Tier1) | mg/L | <0.090 | 9948015 | <0.090 | 0.090 | 9948015 | | | |
| Reached Baseline at C32 | mg/L | NA | 9948943 | NA | N/A | 9950050 | | | |
| Hydrocarbon Resemblance | mg/L | NA | 9948943 | NA | N/A | 9950050 | | | |
| **Surrogate Recovery (%)** | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 103 | 9948943 | 91 | | 9950050 | 91 | | 9950050 |
| n-Dotriacontane - Extractable | % | 115 | 9948943 | 99 | | 9950050 | 97 | | 9950050 |
| Isobutylbenzene - Volatile | % | 96 | 9950221 | 98 | | 9950221 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ARVV95 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/06/11 07:56 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | |
| Benzene | mg/L | <0.0010 | 0.0010 | 9950357 |
| Toluene | mg/L | <0.0010 | 0.0010 | 9950357 |
| Ethylbenzene | mg/L | <0.0010 | 0.0010 | 9950357 |
| Total Xylenes | mg/L | <0.0020 | 0.0020 | 9950357 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | 0.090 | 9950357 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | 0.050 | 9950050 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | 0.050 | 9950050 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | 0.090 | 9950050 |
| Modified TPH (Tier1) | mg/L | <0.090 | 0.090 | 9948015 |
| Reached Baseline at C32 | mg/L | NA | N/A | 9950050 |
| Hydrocarbon Resemblance | mg/L | NA | N/A | 9950050 |
| **Surrogate Recovery (%)** | | | | |
| Isobutylbenzene - Extractable | % | 94 | | 9950050 |
| n-Dotriacontane - Extractable | % | 104 | | 9950050 |
| Isobutylbenzene - Volatile | % | 105 | | 9950357 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 8.0°C |

Sample ARVV93 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample ARVV94 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample ARVV95 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9948861 | EPA | Matrix Spike | D10-Anthracene | 2025/06/13 | | 104 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/13 | | 100 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/13 | | 106 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/13 | | 93 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/06/13 | | 103 | % | 50 - 130 |
| | | | Acenaphthene | 2025/06/13 | | 92 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/06/13 | | 95 | % | 50 - 130 |
| | | | Anthracene | 2025/06/13 | | 93 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/06/13 | | 95 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/06/13 | | 93 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/06/13 | | 98 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/06/13 | | 75 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/06/13 | | 101 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/06/13 | | 99 | % | 50 - 130 |
| | | | Chrysene | 2025/06/13 | | 97 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/06/13 | | 71 | % | 50 - 130 |
| | | | Fluoranthene | 2025/06/13 | | 95 | % | 50 - 130 |
| | | | Fluorene | 2025/06/13 | | 94 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/13 | | 77 | % | 50 - 130 |
| | | | Naphthalene | 2025/06/13 | | 97 | % | 50 - 130 |
| | | | Perylene | 2025/06/13 | | 92 | % | 50 - 130 |
| | | | Phenanthrene | 2025/06/13 | | 96 | % | 50 - 130 |
| | | | Pyrene | 2025/06/13 | | 90 | % | 50 - 130 |
| 9948861 | EPA | Spiked Blank | D10-Anthracene | 2025/06/13 | | 96 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/13 | | 93 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/13 | | 98 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/13 | | 89 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/06/13 | | 99 | % | 50 - 130 |
| | | | Acenaphthene | 2025/06/13 | | 87 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/06/13 | | 92 | % | 50 - 130 |
| | | | Anthracene | 2025/06/13 | | 91 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/06/13 | | 90 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/06/13 | | 95 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/06/13 | | 101 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/06/13 | | 77 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/06/13 | | 102 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/06/13 | | 98 | % | 50 - 130 |
| | | | Chrysene | 2025/06/13 | | 90 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/06/13 | | 52 | % | 50 - 130 |
| | | | Fluoranthene | 2025/06/13 | | 91 | % | 50 - 130 |
| | | | Fluorene | 2025/06/13 | | 90 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/13 | | 75 | % | 50 - 130 |
| | | | Naphthalene | 2025/06/13 | | 92 | % | 50 - 130 |
| | | | Perylene | 2025/06/13 | | 94 | % | 50 - 130 |
| | | | Phenanthrene | 2025/06/13 | | 92 | % | 50 - 130 |
| | | | Pyrene | 2025/06/13 | | 87 | % | 50 - 130 |
| 9948861 | EPA | Method Blank | D10-Anthracene | 2025/06/13 | | 102 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/06/13 | | 98 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/06/13 | | 101 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/06/13 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/06/13 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/06/13 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Anthracene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/06/13 | <0.20 | | ug/L | |
| | | | Perylene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/06/13 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/06/13 | <0.010 | | ug/L | |
| 9948861 | EPA | RPD | 1-Methylnaphthalene | 2025/06/13 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/06/13 | NC | | % | 40 |
| | | | Acenaphthene | 2025/06/13 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/06/13 | NC | | % | 40 |
| | | | Anthracene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/06/13 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/06/13 | NC | | % | 40 |
| | | | Chrysene | 2025/06/13 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/06/13 | NC | | % | 40 |
| | | | Fluoranthene | 2025/06/13 | NC | | % | 40 |
| | | | Fluorene | 2025/06/13 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/06/13 | NC | | % | 40 |
| | | | Naphthalene | 2025/06/13 | NC | | % | 40 |
| | | | Perylene | 2025/06/13 | NC | | % | 40 |
| | | | Phenanthrene | 2025/06/13 | NC | | % | 40 |
| | | | Pyrene | 2025/06/13 | NC | | % | 40 |
| 9948927 | A1M | Matrix Spike [ARVV93-11] | 4-Bromofluorobenzene | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/13 | | 105 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/06/13 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/06/13 | | 94 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/06/13 | | 105 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,4-Dichlorobenzene | 2025/06/13 | | 92 | % | 70 - 130 |
| | | | Benzene | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/06/13 | | 93 | % | 70 - 130 |
| | | | Bromoform | 2025/06/13 | | 108 | % | 70 - 130 |
| | | | Bromomethane | 2025/06/13 | | 97 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2025/06/13 | | 97 | % | 60 - 140 |
| | | | Chloroform | 2025/06/13 | | 93 | % | 70 - 130 |
| | | | Chloromethane | 2025/06/13 | | 101 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/13 | | 93 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/13 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/13 | | 94 | % | 70 - 130 |
| | | | Styrene | 2025/06/13 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/06/13 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/06/13 | | 92 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/06/13 | | 88 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/13 | | 96 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/06/13 | | 96 | % | 60 - 140 |
| | | | o-Xylene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/06/13 | | 95 | % | 70 - 130 |
| 9948927 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/13 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/13 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/06/13 | | 103 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/06/13 | | 102 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/06/13 | | 101 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/13 | | 98 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/06/13 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/06/13 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/06/13 | | 102 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/06/13 | | 107 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | Benzene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/06/13 | | 95 | % | 70 - 130 |
| | | | Bromoform | 2025/06/13 | | 108 | % | 70 - 130 |
| | | | Bromomethane | 2025/06/13 | | 99 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/06/13 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/06/13 | | 99 | % | 70 - 130 |
| | | | Chloroethane | 2025/06/13 | | 100 | % | 60 - 140 |
| | | | Chloroform | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | Chloromethane | 2025/06/13 | | 103 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/06/13 | | 98 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/13 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/13 | | 98 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Styrene | 2025/06/13 | | 102 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/06/13 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/06/13 | | 92 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/13 | | 101 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/06/13 | | 100 | % | 60 - 140 |
| | | | o-Xylene | 2025/06/13 | | 103 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/06/13 | | 100 | % | 70 - 130 |
| 9948927 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/06/13 | | 101 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/06/13 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/06/13 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/06/13 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/06/13 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/13 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/06/13 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/06/13 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/06/13 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/06/13 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/06/13 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/06/13 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/06/13 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/06/13 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/06/13 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Benzene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/06/13 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/06/13 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/06/13 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/06/13 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/06/13 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/06/13 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/06/13 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/06/13 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/13 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/13 | <2.0 | | ug/L | |
| | | | Styrene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Toluene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/06/13 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/13 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/06/13 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/06/13 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/06/13 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/06/13 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/06/13 | <1.0 | | ug/L | |
| 9948927 | A1M | RPD | 1,1-Dichloroethane | 2025/06/13 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/06/13 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/06/13 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/06/13 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,2,2-Tetrachloroethane | 2025/06/13 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/06/13 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/06/13 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/06/13 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/06/13 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/06/13 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/06/13 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/06/13 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/06/13 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/06/13 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/06/13 | NC | | % | 40 |
| | | | Benzene | 2025/06/13 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/06/13 | NC | | % | 40 |
| | | | Bromoform | 2025/06/13 | NC | | % | 40 |
| | | | Bromomethane | 2025/06/13 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/06/13 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/06/13 | NC | | % | 40 |
| | | | Chloroethane | 2025/06/13 | NC | | % | 40 |
| | | | Chloroform | 2025/06/13 | NC | | % | 40 |
| | | | Chloromethane | 2025/06/13 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/06/13 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/06/13 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/06/13 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/06/13 | NC | | % | 40 |
| | | | Styrene | 2025/06/13 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/06/13 | NC | | % | 40 |
| | | | Toluene | 2025/06/13 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/06/13 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/06/13 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/06/13 | NC | | % | 40 |
| | | | o-Xylene | 2025/06/13 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/06/13 | NC | | % | 40 |
| | | | Total Xylenes | 2025/06/13 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/06/13 | NC | | % | 40 |
| 9948943 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/06/13 | | 100 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/13 | | 125 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/13 | | 93 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/13 | | 96 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/13 | | 97 | % | 70 - 130 |
| 9948943 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/06/13 | | 103 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/13 | | 126 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/13 | | 97 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/13 | | 98 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/13 | | 99 | % | 70 - 130 |
| 9948943 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/06/13 | | 101 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/13 | | 117 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/13 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/06/13 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/06/13 | <0.090 | | mg/L | |
| 9948943 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/06/13 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/06/13 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/13 | NC | | % | 40 |
| 9950050 | YPN | Matrix Spike [ARVV95-07] | Isobutylbenzene - Extractable | 2025/06/16 | | 91 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | n-Dotriacontane - Extractable | 2025/06/16 | | 99 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/16 | | 91 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/16 | | 82 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/16 | | 95 | % | 70 - 130 |
| 9950050 | YPN | Spiked Blank | Isobutylbenzene - Extractable | 2025/06/16 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/16 | | 107 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/16 | | 99 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/06/16 | | 89 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/16 | | 105 | % | 70 - 130 |
| 9950050 | YPN | Method Blank | Isobutylbenzene - Extractable | 2025/06/16 | | 81 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/06/16 | | 95 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/06/16 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/06/16 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/06/16 | <0.090 | | mg/L | |
| 9950050 | YPN | RPD [ARVV94-07] | >C10-C16 Hydrocarbons | 2025/06/16 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/06/16 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/06/16 | NC | | % | 40 |
| 9950221 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/06/16 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | | 83 | % | 70 - 130 |
| | | | Toluene | 2025/06/16 | | 89 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/16 | | 90 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/16 | | 92 | % | 70 - 130 |
| 9950221 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/06/16 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | | 93 | % | 70 - 130 |
| | | | Toluene | 2025/06/16 | | 99 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/16 | | 99 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/16 | | 101 | % | 70 - 130 |
| 9950221 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/06/16 | | 99 | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/06/16 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/06/16 | <0.090 | | mg/L | |
| 9950221 | THL | RPD | Benzene | 2025/06/16 | NC | | % | 40 |
| | | | Toluene | 2025/06/16 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/06/16 | NC | | % | 40 |
| | | | Total Xylenes | 2025/06/16 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/06/16 | NC | | % | 40 |
| 9950357 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/06/16 | | 104 (1) | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | | 89 | % | 70 - 130 |
| | | | Toluene | 2025/06/16 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/16 | | 96 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/16 | | 100 | % | 70 - 130 |
| 9950357 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/06/16 | | 106 | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | | 104 | % | 70 - 130 |
| | | | Toluene | 2025/06/16 | | 108 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/06/16 | | 108 | % | 70 - 130 |
| | | | Total Xylenes | 2025/06/16 | | 113 | % | 70 - 130 |
| 9950357 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/06/16 | | 104 | % | 70 - 130 |
| | | | Benzene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/06/16 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/06/16 | <0.0020 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | C6 - C10 (less BTEX) | 2025/06/16 | <0.090 | | mg/L | |
| 9950357 | THL | RPD | Benzene | 2025/06/16 | NC | | % | 40 |
| | | | Toluene | 2025/06/16 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/06/16 | NC | | % | 40 |
| | | | Total Xylenes | 2025/06/16 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/06/16 | NC | | % | 40 |
| 9951519 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/06/18 | | 97 | % | 80 - 120 |
| 9951519 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/06/18 | | 100 | % | 80 - 120 |
| 9951519 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/06/18 | <0.013 | | ug/L | |
| 9951519 | JEP | RPD | Dissolved Mercury (Hg) | 2025/06/18 | NC | | % | 20 |
| 9951539 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/06/18 | | 97 | % | 80 - 120 |
| 9951539 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/06/18 | | 101 | % | 80 - 120 |
| 9951539 | JEP | Method Blank | Total Mercury (Hg) | 2025/06/18 | <0.013 | | ug/L | |
| 9951539 | JEP | RPD | Total Mercury (Hg) | 2025/06/18 | NC | | % | 20 |
| 9951650 | DME | QC Standard | Total Suspended Solids | 2025/06/18 | | 99 | % | 80 - 120 |
| 9951650 | DME | Method Blank | Total Suspended Solids | 2025/06/18 | <1.0 | | mg/L | |
| 9951650 | DME | RPD [ARVV93-01] | Total Suspended Solids | 2025/06/18 | 0 | | % | 20 |
| 9952252 | S6S | Matrix Spike [ARVV95-03] | Total Organic Carbon (C) | 2025/06/19 | | 97 | % | 85 - 115 |
| 9952252 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/06/19 | | 96 | % | 80 - 120 |
| 9952252 | S6S | Method Blank | Total Organic Carbon (C) | 2025/06/19 | <0.50 | | mg/L | |
| 9952252 | S6S | RPD [ARVV95-03] | Total Organic Carbon (C) | 2025/06/19 | 1.4 | | % | 15 |
| 9952272 | JHY | Matrix Spike | Total Aluminum (Al) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/18 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/18 | | 92 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/18 | | 103 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/18 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/18 | | 96 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/06/18 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/18 | | 102 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/18 | | 102 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/18 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/18 | | 98 | % | 80 - 120 |
| 9952272 | JHY | Spiked Blank | Total Aluminum (Al) | 2025/06/18 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Antimony (Sb) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/06/18 | | 96 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/06/18 | | 93 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/06/18 | | 92 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/06/18 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/06/18 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/06/18 | | 99 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/06/18 | | 102 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/06/18 | | 103 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/06/18 | | 102 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/06/18 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/06/18 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/06/18 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/06/18 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/06/18 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/06/18 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/06/18 | | 101 | % | 80 - 120 |
| 9952272 | JHY | Method Blank | Total Aluminum (Al) | 2025/06/18 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/06/18 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/06/18 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/06/18 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/06/18 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/06/18 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/06/18 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/06/18 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/06/18 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/06/18 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/06/18 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/06/18 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/06/18 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/06/18 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/06/18 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/06/18 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/06/18 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/06/18 | <0.10 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Sodium (Na) | 2025/06/18 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/06/18 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/06/18 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/06/18 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/06/18 | <5.0 | | ug/L | |
| 9952272 | JHY | RPD | Total Aluminum (Al) | 2025/06/18 | NC | | % | 20 |
| | | | Total Antimony (Sb) | 2025/06/18 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/06/18 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/06/18 | NC | | % | 20 |
| | | | Total Beryllium (Be) | 2025/06/18 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/06/18 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/06/18 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/06/18 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/06/18 | NC | | % | 20 |
| | | | Total Chromium (Cr) | 2025/06/18 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/06/18 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/06/18 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/06/18 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/06/18 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/06/18 | NC | | % | 20 |
| | | | Total Manganese (Mn) | 2025/06/18 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/06/18 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/06/18 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/06/18 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/06/18 | NC | | % | 20 |
| | | | Total Selenium (Se) | 2025/06/18 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/06/18 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/06/18 | NC | | % | 20 |
| | | | Total Strontium (Sr) | 2025/06/18 | NC | | % | 20 |
| | | | Total Thallium (Tl) | 2025/06/18 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/06/18 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/06/18 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/06/18 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/06/18 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/06/18 | NC | | % | 20 |
| 9953066 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/06/19 | | 86 | % | 80 - 120 |
| 9953066 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/19 | | 89 | % | 80 - 120 |
| 9953066 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/06/19 | <0.050 | | mg/L | |
| 9953066 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/06/19 | NC | | % | 20 |
| 9953310 | JHY | Matrix Spike | Dissolved Aluminum (Al) | 2025/06/19 | | 105 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/19 | | 95 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/19 | | 90 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/19 | | NC | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/19 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Copper (Cu) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/19 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/19 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/06/19 | | NC | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/19 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/19 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/19 | | 110 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/19 | | 100 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/19 | | 101 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/19 | | NC | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/19 | | 105 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/19 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/19 | | 103 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/19 | | 101 | % | 80 - 120 |
| 9953310 | JHY | Spiked Blank | Dissolved Aluminum (Al) | 2025/06/19 | | 94 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/19 | | 104 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/19 | | 95 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/06/19 | | 94 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/19 | | 94 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/19 | | 91 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/19 | | 96 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/19 | | 96 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/19 | | 96 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/19 | | 93 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/19 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/19 | | 95 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/19 | | 95 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/19 | | 97 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/19 | | 101 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/19 | | 103 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/19 | | 98 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/19 | | 102 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/19 | | 99 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/19 | | 104 | % | 80 - 120 |
| 9953310 | JHY | Method Blank | Dissolved Aluminum (Al) | 2025/06/19 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/06/19 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Arsenic (As) | 2025/06/19 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/06/19 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/06/19 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/06/19 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/06/19 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/06/19 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/06/19 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/06/19 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/06/19 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/06/19 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/06/19 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/06/19 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/06/19 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/06/19 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/06/19 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/06/19 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/06/19 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/06/19 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/06/19 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/06/19 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/06/19 | <5.0 | | ug/L | |
| 9953310 | JHY | RPD | Dissolved Aluminum (Al) | 2025/06/19 | 2.0 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/06/19 | 2.9 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/06/19 | 5.4 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/06/19 | 5.2 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/06/19 | 4.5 | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/06/19 | 3.6 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/06/19 | 2.4 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/06/19 | 3.4 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/06/19 | 2.8 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/06/19 | 4.0 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/06/19 | 0.38 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Thallium (Tl) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/06/19 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/06/19 | NC | | % | 20 |
| 9953677 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/20 | | 93 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/20 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/20 | | 93 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/20 | | 97 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/20 | | 103 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/20 | | 106 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/20 | | 94 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/20 | | 96 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/20 | | 95 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/20 | | 104 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/20 | | 101 | % | 80 - 120 |
| 9953677 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/06/20 | | 97 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/06/20 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/06/20 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/06/20 | | 105 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/06/20 | | 107 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Manganese (Mn) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/20 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/06/20 | | 107 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/06/20 | | 96 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/06/20 | | 101 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/06/20 | | 100 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/06/20 | | 99 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/06/20 | | 103 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/06/20 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/06/20 | | 103 | % | 80 - 120 |
| 9953677 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/06/20 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/06/20 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/06/20 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/06/20 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/06/20 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/06/20 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/06/20 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/06/20 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/06/20 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/06/20 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/06/20 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/06/20 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/06/20 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/06/20 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/06/20 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/06/20 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/06/20 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/06/20 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/06/20 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/06/20 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/06/20 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/06/20 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/06/20 | <5.0 | | ug/L | |
| 9953677 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/06/20 | 0.65 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/06/20 | 0.82 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/06/20 | 6.0 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/06/20 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Cadmium (Cd) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/06/20 | 0.75 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/06/20 | 3.4 | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/06/20 | 0.73 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/06/20 | 3.3 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/06/20 | 0.98 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/06/20 | 0.43 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/06/20 | 0.21 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/06/20 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/06/20 | NC | | % | 20 |
| 9954290 | M2C | Spiked Blank | pH | 2025/06/20 | | 99 | % | 97 - 103 |
| 9954290 | M2C | RPD | pH | 2025/06/20 | 0.23 | | % | N/A |
| 9954292 | M2C | Spiked Blank | Conductivity | 2025/06/20 | | 99 | % | 80 - 120 |
| 9954292 | M2C | Method Blank | Conductivity | 2025/06/20 | <1.0 | | uS/cm | |
| 9954292 | M2C | RPD | Conductivity | 2025/06/20 | 0.26 | | % | 10 |
| 9954293 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/06/20 | | 94 | % | 80 - 120 |
| 9954293 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/06/20 | <2.0 | | mg/L | |
| 9954293 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/06/20 | 0.79 | | % | 20 |
| 9954295 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/06/20 | | 91 | % | 80 - 120 |
| 9954295 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/06/20 | | 99 | % | 80 - 120 |
| 9954295 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/06/20 | <0.10 | | mg/L | |
| 9954295 | M2C | RPD | Dissolved Fluoride (F-) | 2025/06/20 | NC | | % | 20 |
| 9954490 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/06/23 | | 98 | % | 85 - 115 |
| 9954490 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/06/23 | | 96 | % | 80 - 120 |
| 9954490 | S6S | Method Blank | Total Organic Carbon (C) | 2025/06/23 | <0.50 | | mg/L | |
| 9954490 | S6S | RPD | Total Organic Carbon (C) | 2025/06/23 | NC | | % | 15 |
| 9955130 | KMC | QC Standard | Turbidity | 2025/06/22 | | 103 | % | 80 - 120 |
| 9955130 | KMC | Spiked Blank | Turbidity | 2025/06/22 | | 99 | % | 80 - 120 |
| 9955130 | KMC | Method Blank | Turbidity | 2025/06/22 | <0.10 | | NTU | |
| 9955130 | KMC | RPD | Turbidity | 2025/06/22 | 1.7 | | % | 20 |
| 9955131 | KMC | QC Standard | Turbidity | 2025/06/22 | | 102 | % | 80 - 120 |
| 9955131 | KMC | Spiked Blank | Turbidity | 2025/06/22 | | 98 | % | 80 - 120 |
| 9955131 | KMC | Method Blank | Turbidity | 2025/06/22 | <0.10 | | NTU | |
| 9955131 | KMC | RPD | Turbidity | 2025/06/22 | 18 | | % | 20 |
| 9955233 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/06/24 | | 87 | % | 80 - 120 |
| 9955233 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/06/24 | | 87 | % | 80 - 120 |
| 9955233 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/06/24 | <1.0 | | mg/L | |
| 9955233 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/06/24 | 0.79 | | % | 20 |
| 9955234 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/06/24 | | 89 | % | 80 - 120 |
| 9955234 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/06/24 | | 86 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9955234 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/06/24 | <1.0 | | mg/L | |
| 9955234 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/06/24 | 1.2 | | % | 20 |
| 9955247 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/06/24 | | 94 | % | 80 - 120 |
| 9955247 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/06/24 | | 91 | % | 80 - 120 |
| 9955247 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/06/24 | <2.0 | | mg/L | |
| 9955247 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/06/24 | 0.19 | | % | 20 |
| 9955248 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/06/23 | | 98 | % | 80 - 120 |
| 9955248 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/06/23 | | 98 | % | 80 - 120 |
| 9955248 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/06/23 | <0.50 | | mg/L | |
| 9955248 | MCN | RPD | Reactive Silica (SiO2) | 2025/06/23 | NC | | % | 20 |
| 9955250 | MCN | Spiked Blank | Colour | 2025/06/24 | | 110 | % | 80 - 120 |
| 9955250 | MCN | Method Blank | Colour | 2025/06/24 | <5.0 | | TCU | |
| 9955250 | MCN | RPD | Colour | 2025/06/24 | NC | | % | 20 |
| 9955252 | MCN | Matrix Spike | Orthophosphate (P) | 2025/06/23 | | NC | % | 80 - 120 |
| 9955252 | MCN | Spiked Blank | Orthophosphate (P) | 2025/06/23 | | 98 | % | 80 - 120 |
| 9955252 | MCN | Method Blank | Orthophosphate (P) | 2025/06/23 | <0.010 | | mg/L | |
| 9955252 | MCN | RPD | Orthophosphate (P) | 2025/06/23 | 2.5 | | % | 20 |
| 9955253 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/06/23 | | 98 | % | 80 - 120 |
| 9955253 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/06/23 | | 103 | % | 80 - 120 |
| 9955253 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/06/23 | <0.050 | | mg/L | |
| 9955253 | MCN | RPD | Nitrate + Nitrite (N) | 2025/06/23 | NC | | % | 20 |
| 9955254 | MCN | Matrix Spike | Nitrite (N) | 2025/06/23 | | 92 | % | 80 - 120 |
| 9955254 | MCN | Spiked Blank | Nitrite (N) | 2025/06/23 | | 97 | % | 80 - 120 |
| 9955254 | MCN | Method Blank | Nitrite (N) | 2025/06/23 | <0.010 | | mg/L | |
| 9955254 | MCN | RPD | Nitrite (N) | 2025/06/23 | NC | | % | 20 |
| 9955255 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/06/24 | | 94 | % | 80 - 120 |
| 9955255 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/06/24 | | 93 | % | 80 - 120 |
| 9955255 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/06/24 | <2.0 | | mg/L | |
| 9955255 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/06/24 | NC | | % | 20 |
| 9955257 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/06/23 | | 95 | % | 80 - 120 |
| 9955257 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/06/23 | | 99 | % | 80 - 120 |
| 9955257 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/06/23 | <0.50 | | mg/L | |
| 9955257 | MCN | RPD | Reactive Silica (SiO2) | 2025/06/23 | NC | | % | 20 |
| 9955258 | MCN | Spiked Blank | Colour | 2025/06/24 | | 101 | % | 80 - 120 |
| 9955258 | MCN | Method Blank | Colour | 2025/06/24 | <5.0 | | TCU | |
| 9955258 | MCN | RPD | Colour | 2025/06/24 | 12 | | % | 20 |
| 9955259 | MCN | Matrix Spike | Orthophosphate (P) | 2025/06/23 | | 93 | % | 80 - 120 |
| 9955259 | MCN | Spiked Blank | Orthophosphate (P) | 2025/06/23 | | 97 | % | 80 - 120 |
| 9955259 | MCN | Method Blank | Orthophosphate (P) | 2025/06/23 | <0.010 | | mg/L | |
| 9955259 | MCN | RPD | Orthophosphate (P) | 2025/06/23 | NC | | % | 20 |
| 9955260 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/06/23 | | 96 | % | 80 - 120 |
| 9955260 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/06/23 | | 101 | % | 80 - 120 |
| 9955260 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/06/23 | <0.050 | | mg/L | |
| 9955260 | MCN | RPD | Nitrate + Nitrite (N) | 2025/06/23 | NC | | % | 20 |
| 9955261 | MCN | Matrix Spike | Nitrite (N) | 2025/06/23 | | 94 | % | 80 - 120 |
| 9955261 | MCN | Spiked Blank | Nitrite (N) | 2025/06/23 | | 94 | % | 80 - 120 |
| 9955261 | MCN | Method Blank | Nitrite (N) | 2025/06/23 | <0.010 | | mg/L | |
| 9955261 | MCN | RPD | Nitrite (N) | 2025/06/23 | NC | | % | 20 |
| 9955401 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/06/24 | | 95 | % | 85 - 115 |
| 9955401 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/06/24 | | 96 | % | 80 - 120 |
| 9955401 | S6S | Method Blank | Total Organic Carbon (C) | 2025/06/24 | <0.50 | | mg/L | |
| 9955401 | S6S | RPD | Total Organic Carbon (C) | 2025/06/24 | 1.4 | | % | 15 |
| 9955740 | IH0 | Method Blank | Carbon Dioxide | 2025/06/23 | <0.6 | | L/m3 | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9955740 | IH0 | RPD | Carbon Dioxide | 2025/06/23 | 0.30 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) VPH sample contained sediment.



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Bureau Veritas Job #: C568905
Report Date: 2025/06/25

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-103330TASK 7

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K314491

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Jun 30, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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# Certificate of Analysis

AGAT WORK ORDER: 25K314491

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-06-26

DATE REPORTED: 2025-06-30

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-06-25 13:20 | 2025-06-25 12:21 | 2025-06-25 11:22 |
| Parameter | Unit | G / S | RDL | | 6844546 | 6844553 | 6844554 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 1410 | 1730 | >2420 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 108 | 11 | 4 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 14.1 | 17.3 | >24.20 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 1.08 | 0.11 | 0.04 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6844546-6844554 Samples were analyzed at the 5 Sea Rose Avenue, St. John's, NL location.

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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St. John's, NL
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# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K314491

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: Jun 30, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6844554 | >2420 | >2420 | NA | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6844554 | 4 | 5 | NA | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 1 | 6844554 | >24.20 | >24.20 | NA | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 1 | 6844554 | 0.04 | 0.05 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



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Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K314491

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

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## Chain of Custody Record

**Laboratory Use Only**
Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 8.8, 9.6, 10.8
Hold Time:
AGAT Job Number: 25K314041
Notes:

**Report Information**
Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):
1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**
☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**
Regular TAT ☑ 5 to 7 working days
Rush TAT ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐
Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):
☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 25/06/25 1320 | water | 1 | |
| WQM-4 | 25/06/25 1221 | water | 1 | |
| WQM-5 | 25/06/25 1122 | water | 1 | |

| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC+EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |

| Samples Relinquished By (Print Name) | Date/Time | Samples Received By (Print Name) | Date/Time |
|---|---|---|---|
| Karen Squires | | Katrina Al-Deir | June 26 |
| Samples Relinquished By (Sign): | Date/Time | Samples Received By (Sign): | Date/Time |
| K Squires | | | 9:15 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page ☐ of ☐
N°:

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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/14**
Report #: R8575116
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C577036**
**Received: 2025/06/27, 09:47**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/07/08 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/07/07 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/07/04 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/07/07 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/07/08 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/07/08 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/07/07 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/06/30 | 2025/07/02 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/07/07 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/06/30 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/07/03 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/07/04 | 2025/07/04 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/07/04 | 2025/07/04 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/07/07 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/07/03 | 2025/07/03 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/07/09 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/07/09 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/07/09 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/07/08 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/07/07 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/07/08 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 2 | 2025/07/02 | 2025/07/03 | ATL SOP 00103 | EPA 8270E R6 m |
| PAH in Water by GC/MS (SIM) | 1 | 2025/07/02 | 2025/07/04 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/07/07 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/07/08 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/07/09 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/07/09 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/07/07 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/07/07 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/07/09 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/07/10 | ATL SOP 00203 | SM 24 5310B m |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/14**
Report #: R8575116
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C577036**
**Received: 2025/06/27, 09:47**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/07/04 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 2 | 2025/06/30 | 2025/07/03 | ATL SOP 00007 | SM 24 2540D m |
| Total Suspended Solids | 1 | 2025/07/02 | 2025/07/03 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/07/12 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/07/03 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/07/03 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/14**
Report #: R8575116
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C577036**
**Received: 2025/06/27, 09:47**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.

Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ASKQ30 | | | ASKQ31 | | | ASKQ32 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | | | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-4 | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 1.00 | N/A | 9960405 | 0.570 | N/A | 9960405 | 0.740 | N/A | 9960405 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 40 | 1.0 | 9960399 | 21 | 1.0 | 9960399 | 29 | 1.0 | 9960399 |
| Calculated TDS | mg/L | 58 | 1.0 | 9960416 | 33 | 1.0 | 9960416 | 42 | 1.0 | 9960416 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9960399 | <1.0 | 1.0 | 9960399 | <1.0 | 1.0 | 9960399 |
| Cation Sum | me/L | 1.07 | N/A | 9960405 | 0.630 | N/A | 9960405 | 0.800 | N/A | 9960405 |
| Hardness (CaCO3) | mg/L | 45 | 1.0 | 9960401 | 23 | 1.0 | 9960401 | 32 | 1.0 | 9960401 |
| Ion Balance (% Difference) | % | 3.38 | N/A | 9960403 | 5.00 | N/A | 9960403 | 3.90 | N/A | 9960403 |
| Langelier Index (@ 20C) | N/A | -0.807 | | 9960413 | -1.58 | | 9960413 | -1.15 | | 9960413 |
| Langelier Index (@ 4C) | N/A | -1.06 | | 9960414 | -1.83 | | 9960414 | -1.40 | | 9960414 |
| Nitrate (N) | mg/L | 0.23 | 0.050 | 9960409 | 0.050 | 0.050 | 9960409 | 0.093 | 0.050 | 9960409 |
| Saturation pH (@ 20C) | N/A | 8.56 | | 9960413 | 9.12 | | 9960413 | 8.85 | | 9960413 |
| Saturation pH (@ 4C) | N/A | 8.81 | | 9960414 | 9.37 | | 9960414 | 9.10 | | 9960414 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 40 | 2.0 | 9964303 | 21 | 2.0 | 9964310 | 29 | 2.0 | 9964303 |
| Dissolved Chloride (Cl-) | mg/L | 4.0 | 1.0 | 9964185 | 3.1 | 1.0 | 9964185 | 3.7 | 1.0 | 9964185 |
| Colour | TCU | 29 | 10 | 9964256 | 170 | 25 | 9964256 | 55 | 25 | 9964256 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9964305 | <0.10 | 0.10 | 9964312 | <0.10 | 0.10 | 9964305 |
| Nitrate + Nitrite (N) | mg/L | 0.23 | 0.050 | 9964260 | 0.050 | 0.050 | 9964260 | 0.093 | 0.050 | 9964260 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9964261 | <0.010 | 0.010 | 9964261 | <0.010 | 0.010 | 9964261 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9965844 | 0.052 | 0.050 | 9965842 | <0.050 | 0.050 | 9965844 |
| Total Organic Carbon (C) | mg/L | 4.7 | 0.50 | 9966902 | 8.7 | 0.50 | 9966801 | 6.8 | 0.50 | 9966907 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9964259 | <0.010 | 0.010 | 9964259 | <0.010 | 0.010 | 9964259 |
| pH | pH | 7.75 | | 9964289 | 7.54 | | 9964306 | 7.70 | | 9964289 |
| Reactive Silica (SiO2) | mg/L | 5.2 | 0.50 | 9964254 | 1.5 | 0.50 | 9964254 | 2.7 | 0.50 | 9964254 |
| Total Suspended Solids | mg/L | 3.2 | 1.0 | 9960756 | 24 | 2.0 | 9960756 | <1.0 | 1.0 | 9961453 |
| Dissolved Sulphate (SO4) | mg/L | 3.0 | 2.0 | 9964253 | 3.0 | 2.0 | 9964253 | 2.2 | 2.0 | 9964253 |
| Turbidity | NTU | 1.4 | 0.10 | 9968005 | 3.0 | 0.10 | 9968005 | 0.69 | 0.10 | 9968005 |
| Conductivity | uS/cm | 100 | 1.0 | 9964302 | 59 | 1.0 | 9964309 | 77 | 1.0 | 9964302 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ASKQ30 | ASKQ31 | ASKQ32 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | 2025/06/25 12:21 | 2025/06/25 11:22 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9962562 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9962551 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASKQ30 | | | ASKQ30 | | | ASKQ31 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Metals** | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 16 | 5.0 | 9964215 | 17 | 5.0 | 9964215 | 32 | 5.0 | 9964215 |
| Total Aluminum (Al) | ug/L | 100 | 5.0 | 9962190 | | | | 120 | 5.0 | 9962194 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9964215 | <1.0 | 1.0 | 9964215 | <1.0 | 1.0 | 9964215 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9962190 | | | | <1.0 | 1.0 | 9962194 |
| Dissolved Arsenic (As) | ug/L | 1.1 | 1.0 | 9964215 | 1.1 | 1.0 | 9964215 | <1.0 | 1.0 | 9964215 |
| Total Arsenic (As) | ug/L | 1.7 | 1.0 | 9962190 | | | | 1.3 | 1.0 | 9962194 |
| Dissolved Barium (Ba) | ug/L | 13 | 1.0 | 9964215 | 13 | 1.0 | 9964215 | 7.1 | 1.0 | 9964215 |
| Total Barium (Ba) | ug/L | 16 | 1.0 | 9962190 | | | | 8.4 | 1.0 | 9962194 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9962190 | | | | <0.10 | 0.10 | 9962194 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9964215 | <50 | 50 | 9964215 | <50 | 50 | 9964215 |
| Total Boron (B) | ug/L | <50 | 50 | 9962190 | | | | <50 | 50 | 9962194 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9964215 | <0.010 | 0.010 | 9964215 | 0.010 | 0.010 | 9964215 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9962190 | | | | 0.011 | 0.010 | 9962194 |
| Dissolved Calcium (Ca) | ug/L | 14000 | 100 | 9964215 | 14000 | 100 | 9964215 | 7100 | 100 | 9964215 |
| Total Calcium (Ca) | ug/L | 14000 | 100 | 9962190 | | | | 6800 | 100 | 9962194 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9964215 | <1.0 | 1.0 | 9964215 | <1.0 | 1.0 | 9964215 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9962190 | | | | 2.7 | 1.0 | 9962194 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9964215 | <0.40 | 0.40 | 9964215 | <0.40 | 0.40 | 9964215 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9962190 | | | | <0.40 | 0.40 | 9962194 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 |
| Total Copper (Cu) | ug/L | <0.50 | 0.50 | 9962190 | | | | 0.65 | 0.50 | 9962194 |
| Dissolved Iron (Fe) | ug/L | 200 | 50 | 9964215 | 200 | 50 | 9964215 | 110 | 50 | 9964215 |
| Total Iron (Fe) | ug/L | 450 | 50 | 9962190 | | | | 360 | 50 | 9962194 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9962190 | | | | 0.55 | 0.50 | 9962194 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Magnesium (Mg) | ug/L | 2200 | 100 | 9964215 | 2300 | 100 | 9964215 | 1400 | 100 | 9964215 |
| Total Magnesium (Mg) | ug/L | 2200 | 100 | 9962190 | | | | 1300 | 100 | 9962194 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASKQ30 | | | ASKQ30 | | | ASKQ31 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | 8.0 | 2.0 | 9964215 | 7.5 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Manganese (Mn) | ug/L | 66 | 2.0 | 9962190 | | | | 64 | 2.0 | 9962194 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9964215 | <100 | 100 | 9964215 | <100 | 100 | 9964215 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9962190 | | | | <100 | 100 | 9962194 |
| Dissolved Potassium (K) | ug/L | 220 | 100 | 9964215 | 220 | 100 | 9964215 | 240 | 100 | 9964215 |
| Total Potassium (K) | ug/L | 230 | 100 | 9962190 | | | | 250 | 100 | 9962194 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 | <0.50 | 0.50 | 9964215 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9962190 | | | | <0.50 | 0.50 | 9962194 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9962190 | | | | <0.10 | 0.10 | 9962194 |
| Dissolved Sodium (Na) | ug/L | 3700 | 100 | 9964215 | 3800 | 100 | 9964215 | 3500 | 100 | 9964215 |
| Total Sodium (Na) | ug/L | 3600 | 100 | 9962190 | | | | 3500 | 100 | 9962194 |
| Dissolved Strontium (Sr) | ug/L | 45 | 2.0 | 9964215 | 45 | 2.0 | 9964215 | 25 | 2.0 | 9964215 |
| Total Strontium (Sr) | ug/L | 46 | 2.0 | 9962190 | | | | 25 | 2.0 | 9962194 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9962190 | | | | <0.10 | 0.10 | 9962194 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Titanium (Ti) | ug/L | 5.6 | 2.0 | 9962190 | | | | 3.5 | 2.0 | 9962194 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 | <0.10 | 0.10 | 9964215 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9962190 | | | | <0.10 | 0.10 | 9962194 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 | <2.0 | 2.0 | 9964215 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9962190 | | | | <2.0 | 2.0 | 9962194 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9964215 | <5.0 | 5.0 | 9964215 | <5.0 | 5.0 | 9964215 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9962190 | | | | <5.0 | 5.0 | 9962194 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASKQ31 | | | ASKQ32 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 12:21 | | | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | | | | 26 | 5.0 | 9964215 |
| Total Aluminum (Al) | ug/L | 110 | 5.0 | 9962194 | 47 | 5.0 | 9962194 |
| Dissolved Antimony (Sb) | ug/L | | | | <1.0 | 1.0 | 9964215 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9962194 | <1.0 | 1.0 | 9962194 |
| Dissolved Arsenic (As) | ug/L | | | | <1.0 | 1.0 | 9964215 |
| Total Arsenic (As) | ug/L | 1.3 | 1.0 | 9962194 | 1.1 | 1.0 | 9962194 |
| Dissolved Barium (Ba) | ug/L | | | | 14 | 1.0 | 9964215 |
| Total Barium (Ba) | ug/L | 8.6 | 1.0 | 9962194 | 14 | 1.0 | 9962194 |
| Dissolved Beryllium (Be) | ug/L | | | | <0.10 | 0.10 | 9964215 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9962194 | <0.10 | 0.10 | 9962194 |
| Dissolved Bismuth (Bi) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Boron (B) | ug/L | | | | <50 | 50 | 9964215 |
| Total Boron (B) | ug/L | <50 | 50 | 9962194 | <50 | 50 | 9962194 |
| Dissolved Cadmium (Cd) | ug/L | | | | <0.010 | 0.010 | 9964215 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9962194 | <0.010 | 0.010 | 9962194 |
| Dissolved Calcium (Ca) | ug/L | | | | 9800 | 100 | 9964215 |
| Total Calcium (Ca) | ug/L | 6900 | 100 | 9962194 | 9200 | 100 | 9962194 |
| Dissolved Chromium (Cr) | ug/L | | | | <1.0 | 1.0 | 9964215 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9962194 | <1.0 | 1.0 | 9962194 |
| Dissolved Cobalt (Co) | ug/L | | | | <0.40 | 0.40 | 9964215 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9962194 | <0.40 | 0.40 | 9962194 |
| Dissolved Copper (Cu) | ug/L | | | | <0.50 | 0.50 | 9964215 |
| Total Copper (Cu) | ug/L | 0.57 | 0.50 | 9962194 | <0.50 | 0.50 | 9962194 |
| Dissolved Iron (Fe) | ug/L | | | | 100 | 50 | 9964215 |
| Total Iron (Fe) | ug/L | 340 | 50 | 9962194 | 180 | 50 | 9962194 |
| Dissolved Lead (Pb) | ug/L | | | | <0.50 | 0.50 | 9964215 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9962194 | <0.50 | 0.50 | 9962194 |
| Dissolved Lithium (Li) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Magnesium (Mg) | ug/L | | | | 1700 | 100 | 9964215 |
| Total Magnesium (Mg) | ug/L | 1300 | 100 | 9962194 | 1600 | 100 | 9962194 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASKQ31 | | | ASKQ32 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 12:21 | | | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | | | | 5.8 | 2.0 | 9964215 |
| Total Manganese (Mn) | ug/L | 62 | 2.0 | 9962194 | 32 | 2.0 | 9962194 |
| Dissolved Molybdenum (Mo) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Nickel (Ni) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Phosphorus (P) | ug/L | | | | <100 | 100 | 9964215 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9962194 | <100 | 100 | 9962194 |
| Dissolved Potassium (K) | ug/L | | | | 230 | 100 | 9964215 |
| Total Potassium (K) | ug/L | 260 | 100 | 9962194 | 310 | 100 | 9962194 |
| Dissolved Selenium (Se) | ug/L | | | | <0.50 | 0.50 | 9964215 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9962194 | <0.50 | 0.50 | 9962194 |
| Dissolved Silver (Ag) | ug/L | | | | <0.10 | 0.10 | 9964215 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9962194 | <0.10 | 0.10 | 9962194 |
| Dissolved Sodium (Na) | ug/L | | | | 3800 | 100 | 9964215 |
| Total Sodium (Na) | ug/L | 3400 | 100 | 9962194 | 3600 | 100 | 9962194 |
| Dissolved Strontium (Sr) | ug/L | | | | 34 | 2.0 | 9964215 |
| Total Strontium (Sr) | ug/L | 25 | 2.0 | 9962194 | 34 | 2.0 | 9962194 |
| Dissolved Thallium (Tl) | ug/L | | | | <0.10 | 0.10 | 9964215 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9962194 | <0.10 | 0.10 | 9962194 |
| Dissolved Tin (Sn) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Titanium (Ti) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Titanium (Ti) | ug/L | 2.9 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Uranium (U) | ug/L | | | | <0.10 | 0.10 | 9964215 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9962194 | <0.10 | 0.10 | 9962194 |
| Dissolved Vanadium (V) | ug/L | | | | <2.0 | 2.0 | 9964215 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9962194 | <2.0 | 2.0 | 9962194 |
| Dissolved Zinc (Zn) | ug/L | | | | <5.0 | 5.0 | 9964215 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9962194 | 6.9 | 5.0 | 9962194 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ASKQ30 | | | ASKQ30 | | | ASKQ31 | ASKQ32 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 1.1 | 0.6 | 9965258 | 1.2 | 0.6 | 9965258 | 1.4 | 0.7 | 0.6 | 9965258 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9960620 | | | | 3 | 1 | 1 | 9960620 |

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate



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Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ASKQ30 | | | ASKQ30 | | | ASKQ31 | | ASKQ32 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | | N/A | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9962245 | <0.050 | 0.050 | 9962245 | <0.050 | 0.050 | <0.050 | 0.050 | 9962245 |
| 2-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9962245 | <0.050 | 0.050 | 9962245 | <0.050 | 0.050 | <0.050 | 0.050 | 9962245 |
| Acenaphthene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Acenaphthylene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Anthracene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(a)anthracene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(a)pyrene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(b)fluoranthene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | 0.020 | 9960578 | | | | <0.020 | 0.020 | <0.020 | 0.020 | 9960578 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(j)fluoranthene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Benzo(k)fluoranthene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Chrysene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Fluoranthene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Fluorene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Naphthalene | ug/L | <0.20 | 0.20 | 9962245 | <0.20 | 0.20 | 9962245 | <0.20 | 0.20 | <0.20 | 0.20 | 9962245 |
| Perylene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| Phenanthrene | ug/L | 0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.020 (1) | 0.020 | 0.010 | 0.010 | 9962245 |
| Pyrene | ug/L | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | 9962245 | <0.010 | 0.010 | <0.010 | 0.010 | 9962245 |
| **Surrogate Recovery (%)** | | | | | | | | | | | | |
| D10-Anthracene | % | 92 | | 9962245 | 81 | | 9962245 | 90 | | 86 | | 9962245 |
| D14-Terphenyl | % | 91 | | 9962245 | 82 | | 9962245 | 88 | | 88 | | 9962245 |
| D8-Acenaphthylene | % | 86 | | 9962245 | 75 | | 9962245 | 85 | | 80 | | 9962245 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Elevated PAH RDL(s) due to matrix / co-extractive interference.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ASKQ30 | ASKQ31 | ASKQ32 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | 2025/06/25 12:21 | 2025/06/25 11:22 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9962598 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9962598 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9962598 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9962598 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9962598 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9962598 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9962598 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | ASKQ30 | ASKQ31 | ASKQ32 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/06/25 13:20 | 2025/06/25 12:21 | 2025/06/25 11:22 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9962598 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9962598 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9962598 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 98 | 98 | 98 | | 9962598 |
| D4-1,2-Dichloroethane | % | 103 | 101 | 103 | | 9962598 |
| D8-Toluene | % | 99 | 99 | 99 | | 9962598 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ASKQ30 | | | ASKQ30 | | | ASKQ31 | ASKQ32 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/06/25 13:20 | | | 2025/06/25 13:20 | | | 2025/06/25 12:21 | 2025/06/25 11:22 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | | | |
| Benzene | mg/L | <0.0010 | 0.0010 | 9962225 | | | | <0.0010 | <0.0010 | 0.0010 | 9962225 |
| Toluene | mg/L | <0.0010 | 0.0010 | 9962225 | | | | <0.0010 | <0.0010 | 0.0010 | 9962225 |
| Ethylbenzene | mg/L | <0.0010 | 0.0010 | 9962225 | | | | <0.0010 | <0.0010 | 0.0010 | 9962225 |
| Total Xylenes | mg/L | <0.0020 | 0.0020 | 9962225 | | | | <0.0020 | <0.0020 | 0.0020 | 9962225 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | 0.090 | 9962225 | | | | <0.090 | <0.090 | 0.090 | 9962225 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | 0.050 | 9960664 | <0.050 | 0.050 | 9960664 | <0.050 | <0.050 | 0.050 | 9960664 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | 0.050 | 9960664 | <0.050 | 0.050 | 9960664 | <0.050 | <0.050 | 0.050 | 9960664 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | 0.090 | 9960664 | <0.090 | 0.090 | 9960664 | <0.090 | <0.090 | 0.090 | 9960664 |
| Modified TPH (Tier1) | mg/L | <0.090 | 0.090 | 9960585 | | | | <0.090 | <0.090 | 0.090 | 9960585 |
| Reached Baseline at C32 | mg/L | NA | N/A | 9960664 | | | | NA | NA | N/A | 9960664 |
| Hydrocarbon Resemblance | mg/L | NA | N/A | 9960664 | | | | NA | NA | N/A | 9960664 |
| **Surrogate Recovery (%)** | | | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 95 | | 9960664 | 95 | | 9960664 | 90 | 95 | | 9960664 |
| n-Dotriacontane - Extractable | % | 111 | | 9960664 | 112 | | 9960664 | 105 | 113 | | 9960664 |
| Isobutylbenzene - Volatile | % | 103 | | 9962225 | | | | 102 | 103 | | 9962225 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 6.3°C |

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9960664 | MGN | Matrix Spike [ASKQ31-08] | Isobutylbenzene - Extractable | 2025/07/02 | | 91 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/02 | | 115 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/02 | | 81 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/02 | | 82 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/02 | | 81 | % | 70 - 130 |
| 9960664 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/07/02 | | 96 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/02 | | 120 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/02 | | 98 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/02 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/02 | | 91 | % | 70 - 130 |
| 9960664 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/07/02 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/02 | | 112 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/02 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/07/02 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/07/02 | <0.090 | | mg/L | |
| 9960664 | MGN | RPD [ASKQ30-08] | >C10-C16 Hydrocarbons | 2025/07/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/07/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/02 | NC | | % | 40 |
| 9960756 | RD4 | QC Standard | Total Suspended Solids | 2025/07/03 | | 100 | % | 80 - 120 |
| 9960756 | RD4 | Method Blank | Total Suspended Solids | 2025/07/03 | <1.0 | | mg/L | |
| 9960756 | RD4 | RPD | Total Suspended Solids | 2025/07/03 | NC | | % | 20 |
| 9961453 | RD4 | QC Standard | Total Suspended Solids | 2025/07/03 | | 98 | % | 80 - 120 |
| 9961453 | RD4 | Method Blank | Total Suspended Solids | 2025/07/03 | <1.0 | | mg/L | |
| 9961453 | RD4 | RPD | Total Suspended Solids | 2025/07/03 | 3.4 | | % | 20 |
| 9962190 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/03 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/03 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/03 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/03 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Uranium (U) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/03 | | 96 | % | 80 - 120 |
| 9962190 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/03 | | 100 | % | 80 - 120 |
| 9962190 | MTZ | Method Blank | Total Aluminum (Al) | 2025/07/03 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/03 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/03 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/03 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/03 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/03 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Nickel (Ni) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/03 | <5.0 | | ug/L | |
| 9962190 | MTZ | RPD | Total Aluminum (Al) | 2025/07/03 | 6.5 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/07/03 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/03 | 3.1 | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/03 | 2.0 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/03 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/03 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/03 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/03 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/03 | 2.4 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/03 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/03 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/03 | 5.9 | | % | 20 |
| | | | Total Iron (Fe) | 2025/07/03 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/03 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/03 | 1.9 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/03 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/07/03 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/03 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/07/03 | 2.1 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/03 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/03 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/03 | 0.22 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/03 | 0.12 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/03 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/03 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/07/03 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/07/03 | 0.41 | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/03 | 1.7 | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/03 | 2.8 | | % | 20 |
| 9962194 | MTZ | Matrix Spike [ASKQ32-04] | Total Aluminum (Al) | 2025/07/03 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/03 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/03 | | 99 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Chromium (Cr) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/03 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/03 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/03 | | 99 | % | 80 - 120 |
| 9962194 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/03 | | 98 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/03 | | 105 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/03 | | 96 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/03 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/03 | | 102 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/03 | | 100 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/03 | | 101 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/03 | | 104 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/03 | | 103 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Zinc (Zn) | 2025/07/03 | | 107 | % | 80 - 120 |
| 9962194 | MTZ | Method Blank | Total Aluminum (Al) | 2025/07/03 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/03 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/03 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/03 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/03 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/03 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/03 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/03 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/03 | <5.0 | | ug/L | |
| 9962194 | MTZ | RPD [ASKQ31-04] | Total Aluminum (Al) | 2025/07/03 | 2.9 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/07/03 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/03 | 4.6 | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/03 | 2.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/03 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/03 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/03 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/03 | 8.1 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/03 | 0.67 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/03 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/03 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/03 | 14 | | % | 20 |
| | | | Total Iron (Fe) | 2025/07/03 | 5.4 | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/03 | 10 | | % | 20 |
| | | | Total Lithium (Li) | 2025/07/03 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/03 | 0.37 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/03 | 3.0 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/03 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/07/03 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/03 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Potassium (K) | 2025/07/03 | 1.4 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/03 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/03 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/03 | 1.5 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/03 | 0.11 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/03 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/03 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/07/03 | 19 | | % | 20 |
| | | | Total Uranium (U) | 2025/07/03 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/03 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/03 | NC | | % | 20 |
| 9962225 | THL | Matrix Spike [ASKQ30-09] | Isobutylbenzene - Volatile | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/07/03 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/03 | | 93 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/03 | | 94 | % | 70 - 130 |
| 9962225 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | Toluene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/03 | | 100 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/03 | | 100 | % | 70 - 130 |
| 9962225 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/07/03 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/07/03 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/07/03 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/07/03 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/07/03 | <0.090 | | mg/L | |
| 9962225 | THL | RPD | Benzene | 2025/07/03 | NC | | % | 40 |
| | | | Toluene | 2025/07/03 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/03 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/03 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/07/03 | NC | | % | 40 |
| 9962245 | EPA | Matrix Spike [ASKQ32-07] | D10-Anthracene | 2025/07/03 | | 81 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/03 | | 83 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/03 | | 77 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/03 | | 81 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/03 | | 88 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/03 | | 83 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/03 | | 87 | % | 50 - 130 |
| | | | Anthracene | 2025/07/03 | | 96 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/03 | | 91 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/03 | | 84 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/03 | | 83 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/03 | | 76 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/07/03 | | 87 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/03 | | 88 | % | 50 - 130 |
| | | | Chrysene | 2025/07/03 | | 90 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/03 | | 75 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/03 | | 89 | % | 50 - 130 |
| | | | Fluorene | 2025/07/03 | | 85 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/03 | | 78 | % | 50 - 130 |
| | | | Naphthalene | 2025/07/03 | | 82 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Perylene | 2025/07/03 | | 78 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/03 | | 82 | % | 50 - 130 |
| | | | Pyrene | 2025/07/03 | | 87 | % | 50 - 130 |
| 9962245 | EPA | Spiked Blank | D10-Anthracene | 2025/07/03 | | 103 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/03 | | 105 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/03 | | 98 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/03 | | 103 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/03 | | 114 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/03 | | 104 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/03 | | 111 | % | 50 - 130 |
| | | | Anthracene | 2025/07/03 | | 123 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/03 | | 113 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/03 | | 107 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/03 | | 110 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/03 | | 98 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/07/03 | | 111 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/03 | | 108 | % | 50 - 130 |
| | | | Chrysene | 2025/07/03 | | 115 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/03 | | 92 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/03 | | 113 | % | 50 - 130 |
| | | | Fluorene | 2025/07/03 | | 106 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/03 | | 100 | % | 50 - 130 |
| | | | Naphthalene | 2025/07/03 | | 106 | % | 50 - 130 |
| | | | Perylene | 2025/07/03 | | 98 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/03 | | 109 | % | 50 - 130 |
| | | | Pyrene | 2025/07/03 | | 109 | % | 50 - 130 |
| 9962245 | EPA | Method Blank | D10-Anthracene | 2025/07/03 | | 109 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/03 | | 108 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/03 | | 102 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/03 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/07/03 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/07/03 | <0.20 | | ug/L | |
| | | | Perylene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/07/03 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/07/03 | <0.010 | | ug/L | |
| 9962245 | EPA | RPD [ASKQ30-07] | 1-Methylnaphthalene | 2025/07/03 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/07/03 | NC | | % | 40 |
| | | | Acenaphthene | 2025/07/03 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthylene | 2025/07/03 | NC | | % | 40 |
| | | | Anthracene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/07/03 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/07/03 | NC | | % | 40 |
| | | | Chrysene | 2025/07/03 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/07/03 | NC | | % | 40 |
| | | | Fluoranthene | 2025/07/03 | NC | | % | 40 |
| | | | Fluorene | 2025/07/03 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/03 | NC | | % | 40 |
| | | | Naphthalene | 2025/07/03 | NC | | % | 40 |
| | | | Perylene | 2025/07/03 | NC | | % | 40 |
| | | | Phenanthrene | 2025/07/03 | 2.0 | | % | 40 |
| | | | Pyrene | 2025/07/03 | NC | | % | 40 |
| 9962551 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/07/04 | | 101 | % | 80 - 120 |
| 9962551 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/07/04 | | 101 | % | 80 - 120 |
| 9962551 | JEP | Method Blank | Total Mercury (Hg) | 2025/07/04 | <0.013 | | ug/L | |
| 9962551 | JEP | RPD | Total Mercury (Hg) | 2025/07/04 | NC | | % | 20 |
| 9962562 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/07/04 | | 97 | % | 80 - 120 |
| 9962562 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/07/04 | | 96 | % | 80 - 120 |
| 9962562 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/07/04 | <0.013 | | ug/L | |
| 9962562 | JEP | RPD | Dissolved Mercury (Hg) | 2025/07/04 | NC | | % | 20 |
| 9962598 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/07/03 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/03 | | 105 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/03 | | 98 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/03 | | 98 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/03 | | 91 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/03 | | 90 | % | 70 - 130 |
| | | | Benzene | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | Bromoform | 2025/07/03 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/03 | | 98 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/03 | | 94 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/03 | | 99 | % | 60 - 140 |
| | | | Chloroform | 2025/07/03 | | 93 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/03 | | 112 | % | 60 - 140 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dibromochloromethane | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/03 | | 89 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/03 | | 93 | % | 70 - 130 |
| | | | Styrene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/03 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/07/03 | | 91 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/03 | | 87 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/03 | | 98 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/03 | | 100 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/03 | | 94 | % | 70 - 130 |
| 9962598 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/07/03 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/03 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/03 | | 101 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/03 | | 101 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/03 | | 94 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/03 | | 94 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/03 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/03 | | 94 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | Benzene | 2025/07/03 | | 98 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/03 | | 93 | % | 70 - 130 |
| | | | Bromoform | 2025/07/03 | | 101 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/03 | | 96 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/03 | | 103 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/03 | | 99 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/03 | | 102 | % | 60 - 140 |
| | | | Chloroform | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/03 | | 115 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/07/03 | | 93 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/03 | | 88 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/03 | | 98 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | Styrene | 2025/07/03 | | 103 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/03 | | 95 | % | 70 - 130 |
| | | | Toluene | 2025/07/03 | | 96 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/03 | | 103 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/03 | | 105 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/03 | | 105 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/03 | | 102 | % | 70 - 130 |
| 9962598 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/07/03 | | 99 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | D4-1,2-Dichloroethane | 2025/07/03 | | 92 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/03 | | 102 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/03 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/07/03 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/07/03 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/07/03 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/03 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/07/03 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/07/03 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/07/03 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/07/03 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/07/03 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/07/03 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/07/03 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/07/03 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/07/03 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Benzene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/07/03 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/07/03 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/07/03 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/07/03 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/07/03 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/07/03 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/07/03 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/07/03 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/03 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/03 | <2.0 | | ug/L | |
| | | | Styrene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Toluene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/07/03 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/03 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/07/03 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/07/03 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/07/03 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/07/03 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/07/03 | <1.0 | | ug/L | |
| 9962598 | A1M | RPD | 1,1-Dichloroethane | 2025/07/03 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/07/03 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/07/03 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/07/03 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/03 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/07/03 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/07/03 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/07/03 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/07/03 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/07/03 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/07/03 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/07/03 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | cis-1,3-Dichloropropene | 2025/07/03 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/07/03 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/07/03 | NC | | % | 40 |
| | | | Benzene | 2025/07/03 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/07/03 | NC | | % | 40 |
| | | | Bromoform | 2025/07/03 | NC | | % | 40 |
| | | | Bromomethane | 2025/07/03 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/07/03 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/07/03 | NC | | % | 40 |
| | | | Chloroethane | 2025/07/03 | NC | | % | 40 |
| | | | Chloroform | 2025/07/03 | NC | | % | 40 |
| | | | Chloromethane | 2025/07/03 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/07/03 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/03 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/03 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/03 | NC | | % | 40 |
| | | | Styrene | 2025/07/03 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/07/03 | NC | | % | 40 |
| | | | Toluene | 2025/07/03 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/07/03 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/03 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/07/03 | NC | | % | 40 |
| | | | o-Xylene | 2025/07/03 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/07/03 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/03 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/07/03 | NC | | % | 40 |
| 9964185 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/07/07 | | 105 | % | 80 - 120 |
| 9964185 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/07/07 | | 103 | % | 80 - 120 |
| 9964185 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/07/07 | <1.0 | | mg/L | |
| 9964185 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/07/07 | 8.1 | | % | 20 |
| 9964215 | MTZ | Matrix Spike [ASKQ30-02] | Dissolved Aluminum (Al) | 2025/07/07 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/07 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/07 | | 95 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/07 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/07 | | 103 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/07 | | 106 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/07 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/07 | | 104 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/07 | | 96 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/07 | | 98 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Silver (Ag) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/07 | | 101 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/07 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/07 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/07 | | 100 | % | 80 - 120 |
| 9964215 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/07/07 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/07 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/07 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/07 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/07 | | 103 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/07 | | 103 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/07 | | 103 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/07 | | 97 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/07 | | 96 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/07 | | 95 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/07 | | 101 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/07 | | 98 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/07 | | 99 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/07 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/07 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/07 | | 100 | % | 80 - 120 |
| 9964215 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/07/07 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/07/07 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/07/07 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/07/07 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/07/07 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/07/07 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/07/07 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/07/07 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/07/07 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/07/07 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/07/07 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Iron (Fe) | 2025/07/07 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/07/07 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/07/07 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/07/07 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/07/07 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/07/07 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/07/07 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/07/07 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/07/07 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/07/07 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/07/07 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/07/07 | <5.0 | | ug/L | |
| 9964215 | MTZ | RPD [ASKQ30-02] | Dissolved Aluminum (Al) | 2025/07/07 | 0.71 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/07/07 | 2.2 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/07/07 | 0.81 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/07/07 | 0.86 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/07/07 | 1.2 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Lithium (Li) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/07/07 | 0.21 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/07/07 | 6.9 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/07/07 | 0.61 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/07/07 | 2.0 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/07/07 | 0.50 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/07/07 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/07/07 | NC | | % | 20 |
| 9964253 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/07/07 | | 98 | % | 80 - 120 |
| 9964253 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/07/07 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9964253 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/07/07 | <2.0 | | mg/L | |
| 9964253 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/07/07 | 0.24 | | % | 20 |
| 9964254 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/07/07 | | NC | % | 80 - 120 |
| 9964254 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/07/07 | | 98 | % | 80 - 120 |
| 9964254 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/07/07 | <0.50 | | mg/L | |
| 9964254 | MCN | RPD | Reactive Silica (SiO2) | 2025/07/07 | 0.50 | | % | 20 |
| 9964256 | MCN | Spiked Blank | Colour | 2025/07/08 | | 103 | % | 80 - 120 |
| 9964256 | MCN | Method Blank | Colour | 2025/07/08 | <5.0 | | TCU | |
| 9964256 | MCN | RPD | Colour | 2025/07/08 | 7.3 | | % | 20 |
| 9964259 | MCN | Matrix Spike | Orthophosphate (P) | 2025/07/08 | | 96 | % | 80 - 120 |
| 9964259 | MCN | Spiked Blank | Orthophosphate (P) | 2025/07/08 | | 100 | % | 80 - 120 |
| 9964259 | MCN | Method Blank | Orthophosphate (P) | 2025/07/08 | <0.010 | | mg/L | |
| 9964259 | MCN | RPD | Orthophosphate (P) | 2025/07/08 | NC | | % | 20 |
| 9964260 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/07/08 | | 104 | % | 80 - 120 |
| 9964260 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/07/08 | | 104 | % | 80 - 120 |
| 9964260 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/07/08 | <0.050 | | mg/L | |
| 9964260 | MCN | RPD | Nitrate + Nitrite (N) | 2025/07/08 | 8.7 | | % | 20 |
| 9964261 | MCN | Matrix Spike | Nitrite (N) | 2025/07/07 | | 97 | % | 80 - 120 |
| 9964261 | MCN | Spiked Blank | Nitrite (N) | 2025/07/07 | | 110 | % | 80 - 120 |
| 9964261 | MCN | Method Blank | Nitrite (N) | 2025/07/07 | <0.010 | | mg/L | |
| 9964261 | MCN | RPD | Nitrite (N) | 2025/07/07 | NC | | % | 20 |
| 9964289 | M2C | Spiked Blank | pH | 2025/07/07 | | 99 | % | 97 - 103 |
| 9964289 | M2C | RPD | pH | 2025/07/07 | 1.9 | | % | N/A |
| 9964302 | M2C | Spiked Blank | Conductivity | 2025/07/07 | | 99 | % | 80 - 120 |
| 9964302 | M2C | Method Blank | Conductivity | 2025/07/07 | <1.0 | | uS/cm | |
| 9964302 | M2C | RPD | Conductivity | 2025/07/07 | 0.26 | | % | 10 |
| 9964303 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/07/07 | | 95 | % | 80 - 120 |
| 9964303 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/07/07 | <2.0 | | mg/L | |
| 9964303 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/07/07 | 1.1 | | % | 20 |
| 9964305 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/07/07 | | 89 | % | 80 - 120 |
| 9964305 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/07/07 | | 96 | % | 80 - 120 |
| 9964305 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/07/07 | <0.10 | | mg/L | |
| 9964305 | M2C | RPD | Dissolved Fluoride (F-) | 2025/07/07 | NC | | % | 20 |
| 9964306 | M2C | Spiked Blank | pH | 2025/07/07 | | 99 | % | 97 - 103 |
| 9964306 | M2C | RPD | pH | 2025/07/07 | 0.54 | | % | N/A |
| 9964309 | M2C | Spiked Blank | Conductivity | 2025/07/07 | | 97 | % | 80 - 120 |
| 9964309 | M2C | Method Blank | Conductivity | 2025/07/07 | <1.0 | | uS/cm | |
| 9964309 | M2C | RPD | Conductivity | 2025/07/07 | 0.42 | | % | 10 |
| 9964310 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/07/07 | | 95 | % | 80 - 120 |
| 9964310 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/07/07 | <2.0 | | mg/L | |
| 9964310 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/07/07 | 2.5 | | % | 20 |
| 9964312 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/07/07 | | 89 | % | 80 - 120 |
| 9964312 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/07/07 | | 90 | % | 80 - 120 |
| 9964312 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/07/07 | <0.10 | | mg/L | |
| 9964312 | M2C | RPD | Dissolved Fluoride (F-) | 2025/07/07 | NC | | % | 20 |
| 9965258 | VTH | Method Blank | Carbon Dioxide | 2025/07/08 | <0.6 | | L/m3 | |
| 9965258 | VTH | RPD [ASKQ30-12] | Carbon Dioxide | 2025/07/08 | 7.7 | | % | 20 |
| 9965842 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | | 98 | % | 80 - 120 |
| 9965842 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | | 102 | % | 80 - 120 |
| 9965842 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | <0.050 | | mg/L | |
| 9965842 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | NC | | % | 20 |
| 9965844 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | | 103 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9965844 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | | 102 | % | 80 - 120 |
| 9965844 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | <0.050 | | mg/L | |
| 9965844 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/07/09 | NC | | % | 20 |
| 9966801 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/10 | | 102 | % | 85 - 115 |
| 9966801 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/10 | | 101 | % | 80 - 120 |
| 9966801 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/10 | <0.50 | | mg/L | |
| 9966801 | S6S | RPD | Total Organic Carbon (C) | 2025/07/10 | 1.3 | | % | 15 |
| 9966902 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/10 | | 98 | % | 85 - 115 |
| 9966902 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/10 | | 99 | % | 80 - 120 |
| 9966902 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/10 | <0.50 | | mg/L | |
| 9966902 | S6S | RPD | Total Organic Carbon (C) | 2025/07/10 | 0.42 | | % | 15 |
| 9966907 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/10 | | 95 | % | 85 - 115 |
| 9966907 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/10 | | 98 | % | 80 - 120 |
| 9966907 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/10 | <0.50 | | mg/L | |
| 9966907 | S6S | RPD | Total Organic Carbon (C) | 2025/07/10 | 0.33 | | % | 15 |
| 9968005 | KMC | QC Standard | Turbidity | 2025/07/12 | | 104 | % | 80 - 120 |
| 9968005 | KMC | Spiked Blank | Turbidity | 2025/07/12 | | 102 | % | 80 - 120 |
| 9968005 | KMC | Method Blank | Turbidity | 2025/07/12 | <0.10 | | NTU | |
| 9968005 | KMC | RPD | Turbidity | 2025/07/12 | 2.0 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C577036
Report Date: 2025/07/14

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Ernlie Publicover, Scientific Specialist

Rosemarie MacDonald, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Accounting Department

PROJECT: 24-10333

AGAT WORK ORDER: 25K319585

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Jul 16, 2025

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- The test results reported herewith relate only to the samples as received by the laboratory.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

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St. John's, NL
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TEL (709)726-9345

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# Certificate of Analysis

AGAT WORK ORDER: 25K319585

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Accounting Department

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-07-10

DATE REPORTED: 2025-07-16

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-07-09 11:35 | 2025-07-09 12:45 | 2025-07-09 13:28 |
| Parameter | Unit | G / S | RDL | | 6878218 | 6878226 | 6878227 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 2420 | 2420 | 1550 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 2420 | 137 | 7 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 24.2 | 24.2 | 15.5 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 24.2 | 1.37 | 0.07 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

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St. John's, NL
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# Quality Assurance

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K319585

PROJECT: 24-10333

ATTENTION TO: Accounting Department

SAMPLING SITE:

SAMPLED BY:

## Microbiology Analysis

| RPT Date: Jul 16, 2025 | | | DUPLICATE | | | | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Acceptable Limits | | Recovery | Acceptable Limits | | Recovery | Acceptable Limits | |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| TC & EC by MPN | | | | | | | | | | | | | | | |
| Total Coliforms (MPN) | 1 | 6878035 | 131 | 147 | 11.5% | < 1 | | | | | | | | | |
| E. Coli (MPN) | 1 | 6878035 | 3 | 1 | NA | < 1 | | | | | | | | | |
| Total Coliforms - MPN | 1 | 6878035 | 1.31 | 1.47 | 11.5% | < 0.01 | | | | | | | | | |
| E. Coli - MPN | 1 | 6878035 | 0.03 | 0.01 | NA | < 0.01 | | | | | | | | | |

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By: Jennifer Doyle



AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.

Results relate only to the items tested. Results apply to samples as received.

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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K319585

PROJECT: 24-10333

ATTENTION TO: Accounting Department

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

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## Chain of Custody Record

**Laboratory Use Only**

Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 13.2, 14.2, 12.9
Hold Time:
AGAT Job Number: 25K319585
Notes: >10 °C

**Report Information**

Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):

1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**

☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**

**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐

Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 2025-07-09 11:35 am | water | 1 | |
| WQM-4 | 2025-07-09 12:45 pm | water | 1 | |
| WQM-5 | 2025-07-09 01:28 pm | water | 1 | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
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| | | | | |

| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |

Samples Relinquished By (Print Name): Jessica McGrath
Date/Time: July 10
Samples Relinquished By (Sign):
Date/Time: 2025

Samples Received By (Print Name): Katrina Al-Deir
Date/Time: July 10, 2025
Samples Received By (Sign):
Date/Time: 9:16

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page of
N°:



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/28**
Report #: R8583865
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C583067**
**Received: 2025/07/11, 09:18**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/07/18 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/07/17 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/07/18 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/07/17 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/07/16 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/07/18 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/07/17 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/07/15 | 2025/07/15 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/07/17 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/07/11 | | |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/07/16 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/07/17 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/07/16 | 2025/07/16 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/07/17 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/07/15 | 2025/07/15 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/07/16 | 2025/07/16 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/07/18 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/07/18 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/07/15 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/07/18 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/07/21 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/07/21 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/07/14 | 2025/07/16 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/07/17 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/07/17 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/07/18 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/07/18 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/07/17 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/07/17 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/07/18 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 2 | N/A | 2025/07/16 | ATL SOP 00203 | SM 24 5310B m |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/28**
Report #: R8583865
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C583067**
**Received: 2025/07/11, 09:18**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/07/17 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/07/16 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/07/16 | 2025/07/17 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/07/17 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/07/15 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/07/15 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/07/28**
Report #: R8583865
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C583067**
**Received: 2025/07/11, 09:18**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C583067
Report Date: 2025/07/28

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ASWB19 | | | ASWB19 | | | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | | | 2025/07/09 11:35 | | | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | | |
| Anion Sum | me/L | 1.19 | N/A | 9967653 | | | | 0.580 | 0.870 | N/A | 9967653 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 46 | 1.0 | 9967649 | | | | 23 | 36 | 1.0 | 9967649 |
| Calculated TDS | mg/L | 69 | 1.0 | 9967661 | | | | 33 | 49 | 1.0 | 9967661 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9967649 | | | | <1.0 | <1.0 | 1.0 | 9967649 |
| Cation Sum | me/L | 1.29 | N/A | 9967653 | | | | 0.680 | 0.960 | N/A | 9967653 |
| Hardness (CaCO3) | mg/L | 54 | 1.0 | 9967895 | | | | 26 | 39 | 1.0 | 9967895 |
| Ion Balance (% Difference) | % | 4.03 | N/A | 9967652 | | | | 7.94 | 4.92 | N/A | 9967652 |
| Langelier Index (@ 20C) | N/A | -0.758 | | 9967658 | | | | -1.42 | -0.713 | | 9967658 |
| Langelier Index (@ 4C) | N/A | -1.01 | | 9967659 | | | | -1.67 | -0.965 | | 9967659 |
| Nitrate (N) | mg/L | 0.22 | 0.050 | 9967763 | | | | 0.067 | 0.087 | 0.050 | 9967763 |
| Saturation pH (@ 20C) | N/A | 8.43 | | 9967658 | | | | 9.02 | 8.66 | | 9967658 |
| Saturation pH (@ 4C) | N/A | 8.68 | | 9967659 | | | | 9.27 | 8.92 | | 9967659 |
| **Inorganics** | | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 46 | 2.0 | 9971407 | 47 | 2.0 | 9971407 | 23 | 36 | 2.0 | 9971407 |
| Dissolved Chloride (Cl-) | mg/L | 6.1 | 1.0 | 9971241 | | | | 4.2 | 5.0 | 1.0 | 9971241 |
| Colour | TCU | 20 | 5.0 | 9971246 | | | | 35 | 36 | 5.0 | 9971246 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9971408 | <0.10 | 0.10 | 9971408 | <0.10 | <0.10 | 0.10 | 9971408 |
| Nitrate + Nitrite (N) | mg/L | 0.22 | 0.050 | 9971250 | | | | 0.067 | 0.087 | 0.050 | 9971250 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9971251 | | | | <0.010 | <0.010 | 0.010 | 9971251 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9969670 | | | | <0.050 | <0.050 | 0.050 | 9969670 |
| Total Organic Carbon (C) | mg/L | 3.7 | 0.50 | 9970668 | | | | 7.4 | 5.8 | 0.50 | 9970668 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9971249 | | | | <0.010 | <0.010 | 0.010 | 9971249 |
| pH | pH | 7.67 | | 9971403 | 7.74 | | 9971403 | 7.60 | 7.95 | | 9971403 |
| Reactive Silica (SiO2) | mg/L | 6.0 | 0.50 | 9971245 | | | | 1.8 | 2.9 | 0.50 | 9971245 |
| Total Suspended Solids | mg/L | <1.0 | 1.0 | 9970433 | | | | 1.6 | <1.0 | 1.0 | 9970433 |
| Dissolved Sulphate (SO4) | mg/L | 3.8 | 2.0 | 9971244 | | | | <2.0 | <2.0 | 2.0 | 9971244 |
| Turbidity | NTU | 0.74 | 0.10 | 9970914 | | | | 2.1 | 0.39 | 0.10 | 9970914 |
| Conductivity | uS/cm | 120 | 1.0 | 9971406 | 120 | 1.0 | 9971406 | 62 | 94 | 1.0 | 9971406 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ASWB19 | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9969787 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASWB19 | | ASWB20 | | | ASWB20 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | | 2025/07/09 12:45 | | | 2025/07/09 12:45 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 16 | 9970480 | 24 | 5.0 | 9970480 | | | |
| Total Aluminum (Al) | ug/L | 19 | 9970408 | 58 | 5.0 | 9969540 | 58 | 5.0 | 9969540 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 9970480 | <1.0 | 1.0 | 9970480 | | | |
| Total Antimony (Sb) | ug/L | <1.0 | 9970408 | <1.0 | 1.0 | 9969540 | <1.0 | 1.0 | 9969540 |
| Dissolved Arsenic (As) | ug/L | 1.6 | 9970480 | <1.0 | 1.0 | 9970480 | | | |
| Total Arsenic (As) | ug/L | 1.5 | 9970408 | 1.1 | 1.0 | 9969540 | 1.1 | 1.0 | 9969540 |
| Dissolved Barium (Ba) | ug/L | 13 | 9970480 | 6.6 | 1.0 | 9970480 | | | |
| Total Barium (Ba) | ug/L | 12 | 9970408 | 7.0 | 1.0 | 9969540 | 6.9 | 1.0 | 9969540 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 9970480 | <0.10 | 0.10 | 9970480 | | | |
| Total Beryllium (Be) | ug/L | <0.10 | 9970408 | <0.10 | 0.10 | 9969540 | <0.10 | 0.10 | 9969540 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Bismuth (Bi) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Boron (B) | ug/L | <50 | 9970480 | <50 | 50 | 9970480 | | | |
| Total Boron (B) | ug/L | <50 | 9970408 | <50 | 50 | 9969540 | <50 | 50 | 9969540 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 9970480 | <0.010 | 0.010 | 9970480 | | | |
| Total Cadmium (Cd) | ug/L | <0.010 | 9970408 | <0.010 | 0.010 | 9969540 | <0.010 | 0.010 | 9969540 |
| Dissolved Calcium (Ca) | ug/L | 17000 | 9970480 | 8200 | 100 | 9970480 | | | |
| Total Calcium (Ca) | ug/L | 15000 | 9970408 | 7900 | 100 | 9969540 | 7600 | 100 | 9969540 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 9970480 | <1.0 | 1.0 | 9970480 | | | |
| Total Chromium (Cr) | ug/L | <1.0 | 9970408 | <1.0 | 1.0 | 9969540 | <1.0 | 1.0 | 9969540 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 9970480 | <0.40 | 0.40 | 9970480 | | | |
| Total Cobalt (Co) | ug/L | <0.40 | 9970408 | <0.40 | 0.40 | 9969540 | <0.40 | 0.40 | 9969540 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 9970480 | <0.50 | 0.50 | 9970480 | | | |
| Total Copper (Cu) | ug/L | <0.50 | 9970408 | <0.50 | 0.50 | 9969540 | 0.68 | 0.50 | 9969540 |
| Dissolved Iron (Fe) | ug/L | 180 | 9970480 | 82 | 50 | 9970480 | | | |
| Total Iron (Fe) | ug/L | 240 | 9970408 | 180 | 50 | 9969540 | 190 | 50 | 9969540 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 9970480 | <0.50 | 0.50 | 9970480 | | | |
| Total Lead (Pb) | ug/L | <0.50 | 9970408 | <0.50 | 0.50 | 9969540 | <0.50 | 0.50 | 9969540 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Lithium (Li) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Magnesium (Mg) | ug/L | 2800 | 9970480 | 1500 | 100 | 9970480 | | | |
| Total Magnesium (Mg) | ug/L | 2600 | 9970408 | 1400 | 100 | 9969540 | 1400 | 100 | 9969540 |
| Dissolved Manganese (Mn) | ug/L | 3.3 | 9970480 | <2.0 | 2.0 | 9970480 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASWB19 | | ASWB20 | | | ASWB20 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | | 2025/07/09 12:45 | | | 2025/07/09 12:45 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 18 | 9970408 | 33 | 2.0 | 9969540 | 32 | 2.0 | 9969540 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Molybdenum (Mo) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Nickel (Ni) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Phosphorus (P) | ug/L | <100 | 9970480 | <100 | 100 | 9970480 | | | |
| Total Phosphorus (P) | ug/L | <100 | 9970408 | <100 | 100 | 9969540 | <100 | 100 | 9969540 |
| Dissolved Potassium (K) | ug/L | 290 | 9970480 | 220 | 100 | 9970480 | | | |
| Total Potassium (K) | ug/L | 250 | 9970408 | 190 | 100 | 9969540 | 190 | 100 | 9969540 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 9970480 | <0.50 | 0.50 | 9970480 | | | |
| Total Selenium (Se) | ug/L | <0.50 | 9970408 | <0.50 | 0.50 | 9969540 | <0.50 | 0.50 | 9969540 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 9970480 | <0.10 | 0.10 | 9970480 | | | |
| Total Silver (Ag) | ug/L | <0.10 | 9970408 | <0.10 | 0.10 | 9969540 | <0.10 | 0.10 | 9969540 |
| Dissolved Sodium (Na) | ug/L | 4500 | 9970480 | 3300 | 100 | 9970480 | | | |
| Total Sodium (Na) | ug/L | 4100 | 9970408 | 3100 | 100 | 9969540 | 3000 | 100 | 9969540 |
| Dissolved Strontium (Sr) | ug/L | 57 | 9970480 | 28 | 2.0 | 9970480 | | | |
| Total Strontium (Sr) | ug/L | 52 | 9970408 | 27 | 2.0 | 9969540 | 26 | 2.0 | 9969540 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 9970480 | <0.10 | 0.10 | 9970480 | | | |
| Total Thallium (Tl) | ug/L | <0.10 | 9970408 | <0.10 | 0.10 | 9969540 | <0.10 | 0.10 | 9969540 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Tin (Sn) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Titanium (Ti) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Uranium (U) | ug/L | <0.10 | 9970480 | <0.10 | 0.10 | 9970480 | | | |
| Total Uranium (U) | ug/L | <0.10 | 9970408 | <0.10 | 0.10 | 9969540 | <0.10 | 0.10 | 9969540 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 9970480 | <2.0 | 2.0 | 9970480 | | | |
| Total Vanadium (V) | ug/L | <2.0 | 9970408 | <2.0 | 2.0 | 9969540 | <2.0 | 2.0 | 9969540 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 9970480 | <5.0 | 5.0 | 9970480 | | | |
| Total Zinc (Zn) | ug/L | <5.0 | 9970408 | <5.0 | 5.0 | 9969540 | <5.0 | 5.0 | 9969540 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASWB21 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/07/09 13:28 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| **Metals** | | | | |
| Dissolved Aluminum (Al) | ug/L | 21 | 5.0 | 9970480 |
| Total Aluminum (Al) | ug/L | 27 | 5.0 | 9969540 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9970480 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9969540 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 1.0 | 9970480 |
| Total Arsenic (As) | ug/L | 1.2 | 1.0 | 9969540 |
| Dissolved Barium (Ba) | ug/L | 16 | 1.0 | 9970480 |
| Total Barium (Ba) | ug/L | 16 | 1.0 | 9969540 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9970480 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9969540 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9970480 |
| Total Boron (B) | ug/L | <50 | 50 | 9969540 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9970480 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9969540 |
| Dissolved Calcium (Ca) | ug/L | 12000 | 100 | 9970480 |
| Total Calcium (Ca) | ug/L | 12000 | 100 | 9969540 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9970480 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9969540 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9970480 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9969540 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9970480 |
| Total Copper (Cu) | ug/L | <0.50 | 0.50 | 9969540 |
| Dissolved Iron (Fe) | ug/L | 78 | 50 | 9970480 |
| Total Iron (Fe) | ug/L | 100 | 50 | 9969540 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9970480 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9969540 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Magnesium (Mg) | ug/L | 1900 | 100 | 9970480 |
| Total Magnesium (Mg) | ug/L | 2000 | 100 | 9969540 |
| Dissolved Manganese (Mn) | ug/L | 8.7 | 2.0 | 9970480 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ASWB21 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/07/09 13:28 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 15 | 2.0 | 9969540 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9970480 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9969540 |
| Dissolved Potassium (K) | ug/L | 240 | 100 | 9970480 |
| Total Potassium (K) | ug/L | 220 | 100 | 9969540 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9970480 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9969540 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9970480 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9969540 |
| Dissolved Sodium (Na) | ug/L | 4100 | 100 | 9970480 |
| Total Sodium (Na) | ug/L | 4000 | 100 | 9969540 |
| Dissolved Strontium (Sr) | ug/L | 43 | 2.0 | 9970480 |
| Total Strontium (Sr) | ug/L | 42 | 2.0 | 9969540 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9970480 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9969540 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Titanium (Ti) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9970480 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9969540 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9970480 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9969540 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9970480 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9969540 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ASWB19 | ASWB20 | | | ASWB20 | | | ASWB21 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | 2025/07/09 12:45 | | | 2025/07/09 12:45 | | | 2025/07/09 13:28 | | |
| COC Number | | N/A | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 2.8 | 0.9 | 0.6 | 9970546 | 0.9 | 0.6 | 9970546 | 1.5 | 0.6 | 9970546 |
| Calculated Carbon Dioxide | mg/L | 5 | 2 | 1 | 9968057 | | | | 3 | 1 | 9968057 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ASWB19 | | | ASWB19 | | | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | | | 2025/07/09 11:35 | | | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9969733 | <0.050 | 0.050 | 9969733 | <0.050 | <0.050 | 0.050 | 9969733 |
| 2-Methylnaphthalene | ug/L | <0.050 | 0.050 | 9969733 | <0.050 | 0.050 | 9969733 | <0.050 | <0.050 | 0.050 | 9969733 |
| Acenaphthene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Acenaphthylene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Anthracene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(a)anthracene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(a)pyrene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(b)fluoranthene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | 0.020 | 9968152 | | | | <0.020 | <0.020 | 0.020 | 9968152 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(j)fluoranthene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Benzo(k)fluoranthene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Chrysene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Fluoranthene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Fluorene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Naphthalene | ug/L | <0.20 | 0.20 | 9969733 | <0.20 | 0.20 | 9969733 | <0.20 | <0.20 | 0.20 | 9969733 |
| Perylene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Phenanthrene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| Pyrene | ug/L | <0.010 | 0.010 | 9969733 | <0.010 | 0.010 | 9969733 | <0.010 | <0.010 | 0.010 | 9969733 |
| **Surrogate Recovery (%)** | | | | | | | | | | | |
| D10-Anthracene | % | 72 | | 9969733 | 71 | | 9969733 | 67 | 64 | | 9969733 |
| D14-Terphenyl | % | 72 | | 9969733 | 71 | | 9969733 | 68 | 63 | | 9969733 |
| D8-Acenaphthylene | % | 74 | | 9969733 | 75 | | 9969733 | 71 | 66 | | 9969733 |

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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ASWB19 | ASWB19 | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | 2025/07/09 11:35 | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-3 Lab-Dup | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9969564 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9969564 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9969564 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9969564 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9969564 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9969564 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9969564 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ASWB19 | ASWB19 | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | 2025/07/09 11:35 | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-3 Lab-Dup | WQM-4 | WQM-5 | RDL | QC Batch |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9969564 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9969564 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9969564 |
| **Surrogate Recovery (%)** | | | | | | | |
| 4-Bromofluorobenzene | % | 98 | 97 | 98 | 97 | | 9969564 |
| D4-1,2-Dichloroethane | % | 100 | 102 | 102 | 104 | | 9969564 |
| D8-Toluene | % | 96 | 95 | 95 | 94 | | 9969564 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ASWB19 | ASWB20 | ASWB21 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/09 11:35 | 2025/07/09 12:45 | 2025/07/09 13:28 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9969942 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9969942 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9969942 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9969942 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9969942 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9969570 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9969570 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9969570 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9967777 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9969570 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9969570 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 103 | 103 | 100 | | 9969570 |
| n-Dotriacontane - Extractable | % | 120 | 120 | 117 | | 9969570 |
| Isobutylbenzene - Volatile | % | 101 | 101 | 101 | | 9969942 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 9.7°C |

Sample ASWB20 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9969540 | MOA | Matrix Spike [ASWB21-03] | Total Aluminum (Al) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/15 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/15 | | 95 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/15 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/15 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/15 | | 96 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/15 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/15 | | 105 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/15 | | 98 | % | 80 - 120 |
| 9969540 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/15 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/15 | | 95 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/15 | | 96 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/15 | | 102 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/15 | | 102 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/15 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/15 | | 103 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/15 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/15 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/15 | | 97 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Selenium (Se) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/15 | | 98 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/15 | | 101 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/15 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/15 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/15 | | 100 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/15 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/15 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/15 | | 101 | % | 80 - 120 |
| 9969540 | MOA | Method Blank | Total Aluminum (Al) | 2025/07/15 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/15 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/15 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/15 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/15 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/15 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/15 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/15 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/15 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/15 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/15 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/15 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/15 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/15 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/07/15 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/15 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/15 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/15 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/15 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/15 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/15 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/15 | <5.0 | | ug/L | |
| 9969540 | MOA | RPD [ASWB20-03] | Total Aluminum (Al) | 2025/07/15 | 0.67 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/07/15 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/15 | 1.3 | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/15 | 1.4 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/15 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/15 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/15 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/15 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/15 | 3.9 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/15 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/15 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/15 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Iron (Fe) | 2025/07/15 | 7.4 | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/15 | NC | | % | 20 |
| | | | Total Lithium (Li) | 2025/07/15 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/15 | 2.2 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/15 | 1.9 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/15 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/07/15 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/15 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/07/15 | 0.012 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/15 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/15 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/15 | 3.5 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/15 | 4.7 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/15 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/15 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/07/15 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/07/15 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/15 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/15 | NC | | % | 20 |
| 9969564 | A1M | Matrix Spike [ASWB20-12] | 4-Bromofluorobenzene | 2025/07/15 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/15 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/15 | | 103 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/15 | | 99 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/15 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/15 | | 104 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/15 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/15 | | 91 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/15 | | 90 | % | 70 - 130 |
| | | | Benzene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/15 | | 91 | % | 70 - 130 |
| | | | Bromoform | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/15 | | 106 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/15 | | 94 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/15 | | 107 | % | 60 - 140 |
| | | | Chloroform | 2025/07/15 | | 100 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/15 | | 121 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/15 | | 90 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/15 | | 101 | % | 70 - 130 |
| | | | Styrene | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/15 | | 90 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Toluene | 2025/07/15 | | 91 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/15 | | 87 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/15 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/15 | | 109 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/15 | | 93 | % | 70 - 130 |
| 9969564 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/07/15 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/15 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/15 | | 107 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/15 | | 100 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/15 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/15 | | 105 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/15 | | 108 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/15 | | 100 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/15 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/15 | | 98 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/15 | | 104 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/15 | | 93 | % | 70 - 130 |
| | | | Benzene | 2025/07/15 | | 98 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/15 | | 93 | % | 70 - 130 |
| | | | Bromoform | 2025/07/15 | | 104 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/15 | | 107 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/15 | | 107 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/15 | | 109 | % | 60 - 140 |
| | | | Chloroform | 2025/07/15 | | 101 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/15 | | 123 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/15 | | 92 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/15 | | 103 | % | 70 - 130 |
| | | | Styrene | 2025/07/15 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/15 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/15 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/15 | | 106 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/15 | | 111 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/15 | | 99 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/15 | | 96 | % | 70 - 130 |
| 9969564 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/07/15 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/15 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/15 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/07/15 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/07/15 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/07/15 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/15 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Ethylene Dibromide | 2025/07/15 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/07/15 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/07/15 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/07/15 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/07/15 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/07/15 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/07/15 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/07/15 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/07/15 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Benzene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/07/15 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/07/15 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/07/15 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/07/15 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/07/15 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/07/15 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/07/15 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/07/15 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/15 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/15 | <2.0 | | ug/L | |
| | | | Styrene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Toluene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/07/15 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/15 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/07/15 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/07/15 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/07/15 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/07/15 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/07/15 | <1.0 | | ug/L | |
| 9969564 | A1M | RPD [ASWB19-12] | 1,1-Dichloroethane | 2025/07/15 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/07/15 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/07/15 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/07/15 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/15 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/07/15 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/07/15 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/07/15 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/07/15 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/07/15 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/07/15 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/07/15 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/07/15 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/07/15 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/07/15 | NC | | % | 40 |
| | | | Benzene | 2025/07/15 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/07/15 | NC | | % | 40 |
| | | | Bromoform | 2025/07/15 | NC | | % | 40 |
| | | | Bromomethane | 2025/07/15 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/07/15 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Chlorobenzene | 2025/07/15 | NC | | % | 40 |
| | | | Chloroethane | 2025/07/15 | NC | | % | 40 |
| | | | Chloroform | 2025/07/15 | NC | | % | 40 |
| | | | Chloromethane | 2025/07/15 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/07/15 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/15 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/15 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/15 | NC | | % | 40 |
| | | | Styrene | 2025/07/15 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/07/15 | NC | | % | 40 |
| | | | Toluene | 2025/07/15 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/07/15 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/15 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/07/15 | NC | | % | 40 |
| | | | o-Xylene | 2025/07/15 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/07/15 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/15 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/07/15 | NC | | % | 40 |
| 9969570 | MSK | Matrix Spike | Isobutylbenzene - Extractable | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/15 | | 119 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/15 | | 93 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/15 | | 98 | % | 70 - 130 |
| 9969570 | MSK | Spiked Blank | Isobutylbenzene - Extractable | 2025/07/15 | | 104 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/15 | | 128 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/15 | | 96 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/15 | | 107 | % | 70 - 130 |
| 9969570 | MSK | Method Blank | Isobutylbenzene - Extractable | 2025/07/15 | | 104 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/15 | | 121 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/15 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/07/15 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/07/15 | <0.090 | | mg/L | |
| 9969570 | MSK | RPD | >C10-C16 Hydrocarbons | 2025/07/15 | 0.097 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/07/15 | 2.0 | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/15 | NC | | % | 40 |
| 9969670 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/07/15 | | 106 | % | 80 - 120 |
| 9969670 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/15 | | 112 | % | 80 - 120 |
| 9969670 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/15 | <0.050 | | mg/L | |
| 9969670 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/07/15 | NC | | % | 20 |
| 9969733 | EPA | Matrix Spike [ASWB20-09] | D10-Anthracene | 2025/07/16 | | 65 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/16 | | 66 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/16 | | 68 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/16 | | 79 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/16 | | 86 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/16 | | 80 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/16 | | 84 | % | 50 - 130 |
| | | | Anthracene | 2025/07/16 | | 88 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/16 | | 94 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/16 | | 80 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/16 | | 81 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/16 | | 78 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzo(j)fluoranthene | 2025/07/16 | | 85 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/16 | | 84 | % | 50 - 130 |
| | | | Chrysene | 2025/07/16 | | 94 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/16 | | 78 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/16 | | 90 | % | 50 - 130 |
| | | | Fluorene | 2025/07/16 | | 82 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/16 | | 76 | % | 50 - 130 |
| | | | Naphthalene | 2025/07/16 | | 79 | % | 50 - 130 |
| | | | Perylene | 2025/07/16 | | 79 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/16 | | 86 | % | 50 - 130 |
| | | | Pyrene | 2025/07/16 | | 89 | % | 50 - 130 |
| 9969733 | EPA | Spiked Blank | D10-Anthracene | 2025/07/16 | | 81 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/16 | | 84 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/16 | | 88 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/16 | | 104 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/16 | | 113 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/16 | | 104 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/16 | | 110 | % | 50 - 130 |
| | | | Anthracene | 2025/07/16 | | 114 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/16 | | 119 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/16 | | 101 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/16 | | 106 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/16 | | 93 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/07/16 | | 110 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/16 | | 107 | % | 50 - 130 |
| | | | Chrysene | 2025/07/16 | | 121 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/16 | | 75 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/16 | | 116 | % | 50 - 130 |
| | | | Fluorene | 2025/07/16 | | 107 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/16 | | 93 | % | 50 - 130 |
| | | | Naphthalene | 2025/07/16 | | 104 | % | 50 - 130 |
| | | | Perylene | 2025/07/16 | | 97 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/16 | | 114 | % | 50 - 130 |
| | | | Pyrene | 2025/07/16 | | 114 | % | 50 - 130 |
| 9969733 | EPA | Method Blank | D10-Anthracene | 2025/07/16 | | 79 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/16 | | 79 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/16 | | 83 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/16 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/07/16 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/16 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Naphthalene | 2025/07/16 | <0.20 | | ug/L | |
| | | | Perylene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/07/16 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/07/16 | <0.010 | | ug/L | |
| 9969733 | EPA | RPD [ASWB19-09] | 1-Methylnaphthalene | 2025/07/16 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/07/16 | NC | | % | 40 |
| | | | Acenaphthene | 2025/07/16 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/07/16 | NC | | % | 40 |
| | | | Anthracene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/07/16 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/07/16 | NC | | % | 40 |
| | | | Chrysene | 2025/07/16 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/07/16 | NC | | % | 40 |
| | | | Fluoranthene | 2025/07/16 | NC | | % | 40 |
| | | | Fluorene | 2025/07/16 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/16 | NC | | % | 40 |
| | | | Naphthalene | 2025/07/16 | NC | | % | 40 |
| | | | Perylene | 2025/07/16 | NC | | % | 40 |
| | | | Phenanthrene | 2025/07/16 | NC | | % | 40 |
| | | | Pyrene | 2025/07/16 | NC | | % | 40 |
| 9969787 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/07/16 | | 100 | % | 80 - 120 |
| 9969787 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/07/16 | | 97 | % | 80 - 120 |
| 9969787 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/07/16 | <0.013 | | ug/L | |
| 9969787 | JEP | RPD | Dissolved Mercury (Hg) | 2025/07/16 | NC | | % | 20 |
| 9969942 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/07/15 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/07/15 | | 87 | % | 70 - 130 |
| | | | Toluene | 2025/07/15 | | 91 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/15 | | 92 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/15 | | 98 | % | 70 - 130 |
| 9969942 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/07/15 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/07/15 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/15 | | 95 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/15 | | 101 | % | 70 - 130 |
| 9969942 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/07/15 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/07/15 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/07/15 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/07/15 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/07/15 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/07/15 | <0.090 | | mg/L | |
| 9969942 | THL | RPD | Benzene | 2025/07/15 | NC | | % | 40 |
| | | | Toluene | 2025/07/15 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/15 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/15 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/07/15 | NC | | % | 40 |
| 9970408 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/07/16 | | 95 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/16 | | 94 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Beryllium (Be) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/16 | | 93 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/16 | | 101 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/16 | | 101 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/16 | | 103 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/16 | | 96 | % | 80 - 120 |
| 9970408 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/16 | | 96 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/16 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/16 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/16 | | 100 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/16 | | 95 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/16 | | 100 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/16 | | 101 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/16 | | 101 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/16 | | 93 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/16 | | 97 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/16 | | 99 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/16 | | 96 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Tin (Sn) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/16 | | 102 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/16 | | 98 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/16 | | 97 | % | 80 - 120 |
| 9970408 | MTZ | Method Blank | Total Aluminum (Al) | 2025/07/16 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/16 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/16 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/16 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/16 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/16 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/16 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/16 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/16 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/16 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/16 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/16 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/16 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/16 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/07/16 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/16 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/16 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/16 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/16 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/16 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/16 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/16 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/16 | <5.0 | | ug/L | |
| 9970408 | MTZ | RPD | Total Aluminum (Al) | 2025/07/16 | 16 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/07/16 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/16 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/16 | 1.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/16 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/16 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/16 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/16 | 18 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/16 | 0.41 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/16 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/16 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/16 | 0.84 | | % | 20 |
| | | | Total Iron (Fe) | 2025/07/16 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/16 | 12 | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/16 | 0.17 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/16 | 6.3 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/16 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Nickel (Ni) | 2025/07/16 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/16 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/07/16 | 1.5 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/16 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/16 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/16 | 1.5 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/16 | 0.80 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/16 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/16 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/07/16 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/07/16 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/16 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/16 | 0.61 | | % | 20 |
| 9970433 | ISM | QC Standard | Total Suspended Solids | 2025/07/17 | | 98 | % | 80 - 120 |
| 9970433 | ISM | Method Blank | Total Suspended Solids | 2025/07/17 | <1.0 | | mg/L | |
| 9970433 | ISM | RPD | Total Suspended Solids | 2025/07/17 | 4.5 | | % | 20 |
| 9970480 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/07/17 | | 98 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/17 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/17 | | 97 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/17 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/17 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/17 | | 104 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/17 | | 105 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/17 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/17 | | 98 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/17 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/17 | | 104 | % | 80 - 120 |
| 9970480 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/17 | | 97 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/17 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Boron (B) | 2025/07/17 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/17 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/17 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/17 | | 104 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/17 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/17 | | 104 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/17 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/17 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/17 | | 97 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/17 | | 101 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/17 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/17 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/17 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/17 | | 105 | % | 80 - 120 |
| 9970480 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/07/17 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/07/17 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/07/17 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/07/17 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/07/17 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/07/17 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/07/17 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/07/17 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/07/17 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/07/17 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/07/17 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/07/17 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/07/17 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/07/17 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/07/17 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/07/17 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/07/17 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/07/17 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/07/17 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/07/17 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/07/17 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Uranium (U) | 2025/07/17 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/07/17 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/07/17 | <5.0 | | ug/L | |
| 9970480 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/07/17 | 1.6 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/07/17 | 0.32 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/07/17 | 0.61 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/07/17 | 1.8 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/07/17 | 1.1 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/07/17 | 0.72 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/07/17 | 0.69 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/07/17 | 0.94 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/07/17 | 1.2 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/07/17 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/07/17 | NC | | % | 20 |
| 9970546 | VTH | Method Blank | Carbon Dioxide | 2025/07/16 | <0.6 | | L/m3 | |
| 9970546 | VTH | RPD [ASWB20-13] | Carbon Dioxide | 2025/07/16 | 0.46 | | % | 20 |
| 9970668 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/16 | | 101 | % | 85 - 115 |
| 9970668 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/16 | | 102 | % | 80 - 120 |
| 9970668 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/16 | <0.50 | | mg/L | |
| 9970668 | S6S | RPD | Total Organic Carbon (C) | 2025/07/16 | NC | | % | 15 |
| 9970914 | KMC | QC Standard | Turbidity | 2025/07/17 | | 104 | % | 80 - 120 |
| 9970914 | KMC | Spiked Blank | Turbidity | 2025/07/17 | | 101 | % | 80 - 120 |
| 9970914 | KMC | Method Blank | Turbidity | 2025/07/17 | <0.10 | | NTU | |
| 9970914 | KMC | RPD | Turbidity | 2025/07/17 | 0.76 | | % | 20 |
| 9971241 | EMT | Matrix Spike | Dissolved Chloride (Cl-) | 2025/07/17 | | 87 | % | 80 - 120 |
| 9971241 | EMT | Spiked Blank | Dissolved Chloride (Cl-) | 2025/07/17 | | 92 | % | 80 - 120 |
| 9971241 | EMT | Method Blank | Dissolved Chloride (Cl-) | 2025/07/17 | <1.0 | | mg/L | |
| 9971241 | EMT | RPD | Dissolved Chloride (Cl-) | 2025/07/17 | 1.1 | | % | 20 |
| 9971244 | EMT | Matrix Spike | Dissolved Sulphate (SO4) | 2025/07/17 | | 97 | % | 80 - 120 |
| 9971244 | EMT | Spiked Blank | Dissolved Sulphate (SO4) | 2025/07/17 | | 95 | % | 80 - 120 |
| 9971244 | EMT | Method Blank | Dissolved Sulphate (SO4) | 2025/07/17 | <2.0 | | mg/L | |
| 9971244 | EMT | RPD | Dissolved Sulphate (SO4) | 2025/07/17 | 0.30 | | % | 20 |
| 9971245 | EMT | Matrix Spike | Reactive Silica (SiO2) | 2025/07/17 | | 89 | % | 80 - 120 |
| 9971245 | EMT | Spiked Blank | Reactive Silica (SiO2) | 2025/07/17 | | 93 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9971245 | EMT | Method Blank | Reactive Silica (SiO2) | 2025/07/17 | <0.50 | | mg/L | |
| 9971245 | EMT | RPD | Reactive Silica (SiO2) | 2025/07/17 | 2.6 | | % | 20 |
| 9971246 | ABU | Spiked Blank | Colour | 2025/07/18 | | 109 | % | 80 - 120 |
| 9971246 | ABU | Method Blank | Colour | 2025/07/18 | <5.0 | | TCU | |
| 9971246 | ABU | RPD | Colour | 2025/07/18 | 12 | | % | 20 |
| 9971249 | MCN | Matrix Spike | Orthophosphate (P) | 2025/07/17 | | 103 | % | 80 - 120 |
| 9971249 | MCN | Spiked Blank | Orthophosphate (P) | 2025/07/17 | | 94 | % | 80 - 120 |
| 9971249 | MCN | Method Blank | Orthophosphate (P) | 2025/07/17 | <0.010 | | mg/L | |
| 9971249 | MCN | RPD | Orthophosphate (P) | 2025/07/17 | NC | | % | 20 |
| 9971250 | EMT | Matrix Spike | Nitrate + Nitrite (N) | 2025/07/18 | | 101 | % | 80 - 120 |
| 9971250 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/07/18 | | 101 | % | 80 - 120 |
| 9971250 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/07/18 | <0.050 | | mg/L | |
| 9971250 | EMT | RPD | Nitrate + Nitrite (N) | 2025/07/18 | 0.80 | | % | 20 |
| 9971251 | MCN | Matrix Spike | Nitrite (N) | 2025/07/21 | | 112 | % | 80 - 120 |
| 9971251 | MCN | Spiked Blank | Nitrite (N) | 2025/07/21 | | 109 | % | 80 - 120 |
| 9971251 | MCN | Method Blank | Nitrite (N) | 2025/07/21 | <0.010 | | mg/L | |
| 9971251 | MCN | RPD | Nitrite (N) | 2025/07/21 | NC | | % | 20 |
| 9971403 | M2C | Spiked Blank | pH | 2025/07/17 | | 100 | % | 97 - 103 |
| 9971403 | M2C | RPD [ASWB19-02] | pH | 2025/07/17 | 0.90 | | % | N/A |
| 9971406 | M2C | Spiked Blank | Conductivity | 2025/07/17 | | 101 | % | 80 - 120 |
| 9971406 | M2C | Method Blank | Conductivity | 2025/07/17 | <1.0 | | uS/cm | |
| 9971406 | M2C | RPD [ASWB19-02] | Conductivity | 2025/07/17 | 0.082 | | % | 10 |
| 9971407 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/07/17 | | 93 | % | 80 - 120 |
| 9971407 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/07/17 | <2.0 | | mg/L | |
| 9971407 | M2C | RPD [ASWB19-02] | Total Alkalinity (Total as CaCO3) | 2025/07/17 | 0.91 | | % | 20 |
| 9971408 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/07/17 | | 94 | % | 80 - 120 |
| 9971408 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/07/17 | | 100 | % | 80 - 120 |
| 9971408 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/07/17 | <0.10 | | mg/L | |
| 9971408 | M2C | RPD [ASWB19-02] | Dissolved Fluoride (F-) | 2025/07/17 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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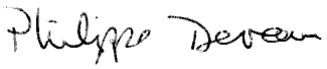
Bureau Veritas Job #: C583067
Report Date: 2025/07/28

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Phil Deveau, Scientific Specialist (Organics)

Satvinder Bhathal, Analyst, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K324999

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Jul 31, 2025

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
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AGAT Laboratories

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St. John's, NL
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TEL (709)726-9345

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# Certificate of Analysis

AGAT WORK ORDER: 25K324999

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-07-24

DATE REPORTED: 2025-07-31

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-07-23 13:50 | 2025-07-23 13:17 | 2025-07-23 12:37 |
| Parameter | Unit | G / S | RDL | | 6914146 | 6914148 | 6914150 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 1550 | 2420 | 1410 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 126 | 66 | 28 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 15.5 | 24.2 | 14.1 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 1.26 | 0.66 | 0.28 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K324999

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

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St John's, NL
A1E 6A8
P: 709.747.8573
webearth.agatlabs.com • www.agatlabs.com

## Chain of Custody Record

**Laboratory Use Only**
Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 8.8, 8.2, 10.2
Hold Time:
AGAT Job Number: 25K324999
Notes:

**Report Information**
Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):
1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**
☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**
**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐
Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):
☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment | Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WQM-3 | 23Jul25 \| 1350 | water | 1 | | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| WQM-4 | 23Jul25 \| 1317 | water | 1 | | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| WQM-5 | 23Jul25 \| 1237 | water | 1 | | | | | | | | | | | | | | | | | | | | | | ☑ | | |

| Samples Relinquished By (Print Name) | Date/Time | Samples Received By (Print Name) | Date/Time |
|---|---|---|---|
| Karen Squires | 24Jul25 | Katrina Al-Deir | July 24, 2025 |
| Samples Relinquished By (Sign): K. Squires | Date/Time | Samples Received By (Sign): | Date/Time 10.00 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page ☐ of ☐
N°:


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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/08**
Report #: R8590030
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C590199**
**Received: 2025/07/25, 09:30**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/07/30 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/07/29 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/07/30 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/07/30 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/08/06 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/07/30 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/07/29 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/07/28 | 2025/07/29 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/07/29 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/07/25 | | |
| Hardness (calculated as CaCO3) | 2 | N/A | 2025/07/29 | ATL SOP 00048 | Auto Calc |
| Hardness (calculated as CaCO3) | 1 | N/A | 2025/07/30 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/07/30 | 2025/07/30 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/07/29 | 2025/07/29 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 2 | N/A | 2025/07/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS- Lab Filtered (2) | 1 | N/A | 2025/07/30 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 2 | 2025/07/29 | 2025/07/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 1 | 2025/07/30 | 2025/07/30 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/07/30 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/07/30 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/07/30 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/07/30 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/07/30 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/07/31 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/07/29 | 2025/07/29 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/07/29 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/07/30 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/07/30 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/07/30 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/07/30 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/07/30 | ATL SOP 00023 | ASTM D516-16 m |



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/08**
Report #: R8590030
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C590199**
**Received: 2025/07/25, 09:30**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/07/30 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 2 | N/A | 2025/07/29 | ATL SOP 00203 | SM 24 5310B m |
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/07/30 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/07/30 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 1 | 2025/07/29 | 2025/07/30 | ATL SOP 00007 | SM 24 2540D m |
| Total Suspended Solids | 2 | 2025/07/29 | 2025/07/31 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 2 | N/A | 2025/07/31 | ATL SOP 00011 | EPA 180.1 R2 m |
| Turbidity | 1 | N/A | 2025/08/01 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/07/28 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/07/28 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/08**
Report #: R8590030
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C590199**

**Received: 2025/07/25, 09:30**

(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ATJR08 | | ATJR09 | | | ATJR09 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | | 2025/07/23 13:17 | | | 2025/07/23 13:17 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | |
| Anion Sum | me/L | 1.39 | 9976753 | 0.590 | N/A | 9976753 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 53 | 9976748 | 23 | 1.0 | 9976748 | | | |
| Calculated TDS | mg/L | 79 | 9976764 | 33 | 1.0 | 9976764 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 9976748 | <1.0 | 1.0 | 9976748 | | | |
| Cation Sum | me/L | 1.44 | 9976753 | 0.680 | N/A | 9976753 | | | |
| Hardness (CaCO3) | mg/L | 61 | 9976992 | 26 | 1.0 | 9976992 | | | |
| Ion Balance (% Difference) | % | 1.77 | 9976752 | 7.09 | N/A | 9976752 | | | |
| Langelier Index (@ 20C) | N/A | -0.464 | 9976761 | -1.45 | | 9976761 | | | |
| Langelier Index (@ 4C) | N/A | -0.715 | 9976763 | -1.70 | | 9976763 | | | |
| Nitrate (N) | mg/L | 0.22 | 9977185 | <0.050 | 0.050 | 9977185 | | | |
| Saturation pH (@ 20C) | N/A | 8.32 | 9976761 | 9.02 | | 9976761 | | | |
| Saturation pH (@ 4C) | N/A | 8.57 | 9976763 | 9.27 | | 9976763 | | | |
| **Inorganics** | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 54 | 9978722 | 23 | 2.0 | 9978722 | | | |
| Dissolved Chloride (Cl-) | mg/L | 7.6 | 9978727 | 4.3 | 1.0 | 9978727 | | | |
| Colour | TCU | 25 | 9978796 | 30 | 5.0 | 9978796 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 9978723 | <0.10 | 0.10 | 9978723 | | | |
| Nitrate + Nitrite (N) | mg/L | 0.22 | 9978799 | <0.050 | 0.050 | 9978799 | | | |
| Nitrite (N) | mg/L | <0.010 | 9978800 | <0.010 | 0.010 | 9978800 | | | |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 9978752 | <0.050 | 0.050 | 9978752 | | | |
| Total Organic Carbon (C) | mg/L | 3.2 | 9978801 | 6.7 | 0.50 | 9979544 | | | |
| Orthophosphate (P) | mg/L | <0.010 | 9978797 | <0.010 | 0.010 | 9978797 | | | |
| pH | pH | 7.85 | 9978716 | 7.57 | | 9978716 | | | |
| Reactive Silica (SiO2) | mg/L | 6.2 | 9978793 | 1.4 | 0.50 | 9978793 | | | |
| Total Suspended Solids | mg/L | 4.2 | 9978859 | 76 | 1.0 | 9978630 | | | |
| Dissolved Sulphate (SO4) | mg/L | 4.1 | 9978790 | <2.0 | 2.0 | 9978790 | | | |
| Turbidity | NTU | 2.0 | 9980046 | 4.4 | 0.10 | 9981349 | 4.5 | 0.10 | 9981349 |
| Conductivity | uS/cm | 140 | 9978719 | 66 | 1.0 | 9978719 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ATJR10 | | | ATJR10 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 12:37 | | | 2025/07/23 12:37 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Anion Sum | me/L | 0.850 | N/A | 9976753 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 35 | 1.0 | 9976748 | | | |
| Calculated TDS | mg/L | 47 | 1.0 | 9976764 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9976748 | | | |
| Cation Sum | me/L | 0.930 | N/A | 9976753 | | | |
| Hardness (CaCO3) | mg/L | 38 | 1.0 | 9976992 | | | |
| Ion Balance (% Difference) | % | 4.49 | N/A | 9976752 | | | |
| Langelier Index (@ 20C) | N/A | -0.878 | | 9976761 | | | |
| Langelier Index (@ 4C) | N/A | -1.13 | | 9976763 | | | |
| Nitrate (N) | mg/L | 0.060 | 0.050 | 9977185 | | | |
| Saturation pH (@ 20C) | N/A | 8.69 | | 9976761 | | | |
| Saturation pH (@ 4C) | N/A | 8.94 | | 9976763 | | | |
| **Inorganics** | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 35 | 2.0 | 9978722 | | | |
| Dissolved Chloride (Cl-) | mg/L | 5.1 | 1.0 | 9978727 | | | |
| Colour | TCU | 29 | 5.0 | 9978796 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9978723 | | | |
| Nitrate + Nitrite (N) | mg/L | 0.060 | 0.050 | 9978799 | | | |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9978800 | | | |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9978756 | <0.050 | 0.050 | 9978756 |
| Total Organic Carbon (C) | mg/L | 5.4 | 0.50 | 9978801 | | | |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9978797 | | | |
| pH | pH | 7.81 | | 9978716 | | | |
| Reactive Silica (SiO2) | mg/L | 2.9 | 0.50 | 9978793 | | | |
| Total Suspended Solids | mg/L | 1.2 | 1.0 | 9978859 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | 9978790 | | | |
| Turbidity | NTU | 4.7 | 0.10 | 9980046 | | | |
| Conductivity | uS/cm | 93 | 1.0 | 9978719 | | | |

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ATJR08 | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9978939 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9977884 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATJR08 | | | ATJR08 | | | ATJR09 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | | | 2025/07/23 13:50 | | | 2025/07/23 13:17 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Metals** | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 11 | 5.0 | 9978720 | | | | 17 | 5.0 | 9979610 |
| Total Aluminum (Al) | ug/L | 170 | 5.0 | 9980386 | | | | 170 | 5.0 | 9979533 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9978720 | | | | <1.0 | 1.0 | 9979610 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9978596 | <1.0 | 1.0 | 9978596 | <1.0 | 1.0 | 9979533 |
| Dissolved Arsenic (As) | ug/L | 1.5 | 1.0 | 9978720 | | | | <1.0 | 1.0 | 9979610 |
| Total Arsenic (As) | ug/L | 2.4 | 1.0 | 9978596 | 2.2 | 1.0 | 9978596 | 1.7 | 1.0 | 9979533 |
| Dissolved Barium (Ba) | ug/L | 17 | 1.0 | 9978720 | | | | 6.5 | 1.0 | 9979610 |
| Total Barium (Ba) | ug/L | 19 | 1.0 | 9978596 | 19 | 1.0 | 9978596 | 8.5 | 1.0 | 9979533 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9978720 | | | | <0.10 | 0.10 | 9979610 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9979533 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9978720 | | | | <50 | 50 | 9979610 |
| Total Boron (B) | ug/L | <50 | 50 | 9978596 | <50 | 50 | 9978596 | <50 | 50 | 9979533 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9978720 | | | | <0.010 | 0.010 | 9979610 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9978596 | <0.010 | 0.010 | 9978596 | 0.011 | 0.010 | 9979533 |
| Dissolved Calcium (Ca) | ug/L | 19000 | 100 | 9978720 | | | | 8000 | 100 | 9979610 |
| Total Calcium (Ca) | ug/L | 19000 | 100 | 9978596 | 20000 | 100 | 9978596 | 7700 | 100 | 9979533 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9978720 | | | | <1.0 | 1.0 | 9979610 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9978596 | <1.0 | 1.0 | 9978596 | <1.0 | 1.0 | 9979533 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9978720 | | | | <0.40 | 0.40 | 9979610 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9978596 | <0.40 | 0.40 | 9978596 | <0.40 | 0.40 | 9979533 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9978720 | | | | <0.50 | 0.50 | 9979610 |
| Total Copper (Cu) | ug/L | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9979533 |
| Dissolved Iron (Fe) | ug/L | 160 | 50 | 9978720 | | | | 61 | 50 | 9979610 |
| Total Iron (Fe) | ug/L | 520 | 50 | 9978596 | 430 | 50 | 9978596 | 450 | 50 | 9979533 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9978720 | | | | <0.50 | 0.50 | 9979610 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9979533 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Magnesium (Mg) | ug/L | 3200 | 100 | 9978720 | | | | 1500 | 100 | 9979610 |
| Total Magnesium (Mg) | ug/L | 3300 | 100 | 9978596 | 3200 | 100 | 9978596 | 1500 | 100 | 9979533 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATJR08 | | | ATJR08 | | | ATJR09 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | | | 2025/07/23 13:50 | | | 2025/07/23 13:17 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | 4.2 | 2.0 | 9978720 | | | | 7.8 | 2.0 | 9979610 |
| Total Manganese (Mn) | ug/L | 100 | 2.0 | 9978596 | 98 | 2.0 | 9978596 | 120 | 2.0 | 9979533 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9978720 | | | | <100 | 100 | 9979610 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9978596 | <100 | 100 | 9978596 | <100 | 100 | 9979533 |
| Dissolved Potassium (K) | ug/L | 350 | 100 | 9978720 | | | | 210 | 100 | 9979610 |
| Total Potassium (K) | ug/L | 370 | 100 | 9978596 | 350 | 100 | 9978596 | 210 | 100 | 9979533 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9978720 | | | | <0.50 | 0.50 | 9979610 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9978596 | <0.50 | 0.50 | 9979533 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9978720 | | | | <0.10 | 0.10 | 9979610 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9979533 |
| Dissolved Sodium (Na) | ug/L | 4700 | 100 | 9978720 | | | | 3400 | 100 | 9979610 |
| Total Sodium (Na) | ug/L | 4700 | 100 | 9978596 | 4800 | 100 | 9978596 | 3300 | 100 | 9979533 |
| Dissolved Strontium (Sr) | ug/L | 66 | 2.0 | 9978720 | | | | 28 | 2.0 | 9979610 |
| Total Strontium (Sr) | ug/L | 66 | 2.0 | 9978596 | 66 | 2.0 | 9978596 | 27 | 2.0 | 9979533 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9978720 | | | | <0.10 | 0.10 | 9979610 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9979533 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Titanium (Ti) | ug/L | 9.6 | 2.0 | 9980386 | | | | 5.1 | 2.0 | 9979533 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9978720 | | | | <0.10 | 0.10 | 9979610 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9978596 | <0.10 | 0.10 | 9979533 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9978720 | | | | <2.0 | 2.0 | 9979610 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9978596 | <2.0 | 2.0 | 9979533 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9978720 | | | | <5.0 | 5.0 | 9979610 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9978596 | <5.0 | 5.0 | 9978596 | <5.0 | 5.0 | 9979533 |

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATJR09 | | | ATJR10 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:17 | | | 2025/07/23 12:37 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 16 | 5.0 | 9979610 | 12 | 5.0 | 9978720 |
| Total Aluminum (Al) | ug/L | | | | 17 | 5.0 | 9978596 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9979610 | <1.0 | 1.0 | 9978720 |
| Total Antimony (Sb) | ug/L | | | | <1.0 | 1.0 | 9978596 |
| Dissolved Arsenic (As) | ug/L | <1.0 | 1.0 | 9979610 | <1.0 | 1.0 | 9978720 |
| Total Arsenic (As) | ug/L | | | | <1.0 | 1.0 | 9978596 |
| Dissolved Barium (Ba) | ug/L | 6.2 | 1.0 | 9979610 | 15 | 1.0 | 9978720 |
| Total Barium (Ba) | ug/L | | | | 15 | 1.0 | 9978596 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9979610 | <0.10 | 0.10 | 9978720 |
| Total Beryllium (Be) | ug/L | | | | <0.10 | 0.10 | 9978596 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Bismuth (Bi) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9979610 | <50 | 50 | 9978720 |
| Total Boron (B) | ug/L | | | | <50 | 50 | 9978596 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9979610 | <0.010 | 0.010 | 9978720 |
| Total Cadmium (Cd) | ug/L | | | | <0.010 | 0.010 | 9978596 |
| Dissolved Calcium (Ca) | ug/L | 8000 | 100 | 9979610 | 12000 | 100 | 9978720 |
| Total Calcium (Ca) | ug/L | | | | 12000 | 100 | 9978596 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9979610 | <1.0 | 1.0 | 9978720 |
| Total Chromium (Cr) | ug/L | | | | <1.0 | 1.0 | 9978596 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9979610 | <0.40 | 0.40 | 9978720 |
| Total Cobalt (Co) | ug/L | | | | <0.40 | 0.40 | 9978596 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9979610 | <0.50 | 0.50 | 9978720 |
| Total Copper (Cu) | ug/L | | | | <0.50 | 0.50 | 9978596 |
| Dissolved Iron (Fe) | ug/L | 57 | 50 | 9979610 | <50 | 50 | 9978720 |
| Total Iron (Fe) | ug/L | | | | 78 | 50 | 9978596 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9979610 | <0.50 | 0.50 | 9978720 |
| Total Lead (Pb) | ug/L | | | | <0.50 | 0.50 | 9978596 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Lithium (Li) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Magnesium (Mg) | ug/L | 1500 | 100 | 9979610 | 1900 | 100 | 9978720 |
| Total Magnesium (Mg) | ug/L | | | | 1900 | 100 | 9978596 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATJR09 | | | ATJR10 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:17 | | | 2025/07/23 12:37 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | 7.7 | 2.0 | 9979610 | 6.0 | 2.0 | 9978720 |
| Total Manganese (Mn) | ug/L | | | | 15 | 2.0 | 9978596 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Molybdenum (Mo) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Nickel (Ni) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9979610 | <100 | 100 | 9978720 |
| Total Phosphorus (P) | ug/L | | | | <100 | 100 | 9978596 |
| Dissolved Potassium (K) | ug/L | 210 | 100 | 9979610 | 220 | 100 | 9978720 |
| Total Potassium (K) | ug/L | | | | 230 | 100 | 9978596 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9979610 | <0.50 | 0.50 | 9978720 |
| Total Selenium (Se) | ug/L | | | | <0.50 | 0.50 | 9978596 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9979610 | <0.10 | 0.10 | 9978720 |
| Total Silver (Ag) | ug/L | | | | <0.10 | 0.10 | 9978596 |
| Dissolved Sodium (Na) | ug/L | 3400 | 100 | 9979610 | 4000 | 100 | 9978720 |
| Total Sodium (Na) | ug/L | | | | 3900 | 100 | 9978596 |
| Dissolved Strontium (Sr) | ug/L | 28 | 2.0 | 9979610 | 41 | 2.0 | 9978720 |
| Total Strontium (Sr) | ug/L | | | | 40 | 2.0 | 9978596 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9979610 | <0.10 | 0.10 | 9978720 |
| Total Thallium (Tl) | ug/L | | | | <0.10 | 0.10 | 9978596 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Tin (Sn) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Titanium (Ti) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9979610 | <0.10 | 0.10 | 9978720 |
| Total Uranium (U) | ug/L | | | | <0.10 | 0.10 | 9978596 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9979610 | <2.0 | 2.0 | 9978720 |
| Total Vanadium (V) | ug/L | | | | <2.0 | 2.0 | 9978596 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9979610 | <5.0 | 5.0 | 9978720 |
| Total Zinc (Zn) | ug/L | | | | <5.0 | 5.0 | 9978596 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ATJR08 | | | ATJR08 | | | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | | | 2025/07/23 13:50 | | | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 0.9 | 0.6 | 9984041 | 1.0 | 0.6 | 9984041 | 0.7 | <0.6 | 0.6 | 9984041 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9977227 | | | | 1 | <1 | 1 | 9977227 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ATJR08 | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9978600 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9978600 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9976958 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9978600 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| Phenanthrene | ug/L | 0.015 | 0.018 | 0.014 | 0.010 | 9978600 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9978600 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 88 | 98 | 89 | | 9978600 |
| D14-Terphenyl | % | 90 (1) | 99 (1) | 91 (1) | | 9978600 |
| D8-Acenaphthylene | % | 85 | 96 | 86 | | 9978600 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ATJR08 | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9977921 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9977921 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9977921 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9977921 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9977921 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9977921 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9977921 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | ATJR08 | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/07/23 13:50 | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9977921 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9977921 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9977921 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 98 | 98 | 99 | | 9977921 |
| D4-1,2-Dichloroethane | % | 100 | 100 | 100 | | 9977921 |
| D8-Toluene | % | 100 | 99 | 101 | | 9977921 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ATJR08 | ATJR09 | ATJR10 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/07/23 13:50 | 2025/07/23 13:17 | 2025/07/23 12:37 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9978231 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9978231 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9978231 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9978231 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9978231 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9978161 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9978161 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9978161 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9977011 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9978161 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9978161 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 96 | 96 | 95 | | 9978161 |
| n-Dotriacontane - Extractable | % | 92 | 94 | 91 | | 9978161 |
| Isobutylbenzene - Volatile | % | 102 | 101 | 100 | | 9978231 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 7.3°C |

Sample ATJR09 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample ATJR08, Metals Water Total MS: Test repeated.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9977884 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/07/29 | | 100 | % | 80 - 120 |
| 9977884 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/07/29 | | 99 | % | 80 - 120 |
| 9977884 | JEP | Method Blank | Total Mercury (Hg) | 2025/07/29 | <0.013 | | ug/L | |
| 9977884 | JEP | RPD | Total Mercury (Hg) | 2025/07/29 | NC | | % | 20 |
| 9977921 | THL | Matrix Spike | 4-Bromofluorobenzene | 2025/07/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/28 | | 105 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/28 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/28 | | 96 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/28 | | 101 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/28 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/28 | | 95 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/28 | | 93 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | Benzene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/28 | | 87 | % | 70 - 130 |
| | | | Bromoform | 2025/07/28 | | 76 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/28 | | 94 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/28 | | 84 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/28 | | 85 | % | 60 - 140 |
| | | | Chloroform | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/28 | | 88 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/07/28 | | 80 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/28 | | 89 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/28 | | 86 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | Styrene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/07/28 | | 89 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/28 | | 86 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/28 | | 89 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/28 | | 83 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/28 | | 87 | % | 70 - 130 |
| 9977921 | THL | Spiked Blank | 4-Bromofluorobenzene | 2025/07/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/28 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/28 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/07/28 | | 94 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/07/28 | | 96 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/28 | | 93 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/07/28 | | 97 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichlorobenzene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/07/28 | | 98 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/07/28 | | 95 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/07/28 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | Benzene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/07/28 | | 87 | % | 70 - 130 |
| | | | Bromoform | 2025/07/28 | | 75 | % | 70 - 130 |
| | | | Bromomethane | 2025/07/28 | | 92 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/07/28 | | 87 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | Chloroethane | 2025/07/28 | | 87 | % | 60 - 140 |
| | | | Chloroform | 2025/07/28 | | 91 | % | 70 - 130 |
| | | | Chloromethane | 2025/07/28 | | 89 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/07/28 | | 79 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/28 | | 87 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | Styrene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | Toluene | 2025/07/28 | | 90 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/07/28 | | 88 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/28 | | 91 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/07/28 | | 86 | % | 60 - 140 |
| | | | o-Xylene | 2025/07/28 | | 92 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/07/28 | | 90 | % | 70 - 130 |
| 9977921 | THL | Method Blank | 4-Bromofluorobenzene | 2025/07/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/07/28 | | 101 | % | 70 - 130 |
| | | | D8-Toluene | 2025/07/28 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/07/28 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/07/28 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/07/28 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/07/28 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/28 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/07/28 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/07/28 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/07/28 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/07/28 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/07/28 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/07/28 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/07/28 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/07/28 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/07/28 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Benzene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/07/28 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/07/28 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/07/28 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Carbon Tetrachloride | 2025/07/28 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/07/28 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/07/28 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/07/28 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/07/28 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/28 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/28 | <2.0 | | ug/L | |
| | | | Styrene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Toluene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/07/28 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/28 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/07/28 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/07/28 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/07/28 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/07/28 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/07/28 | <1.0 | | ug/L | |
| 9977921 | THL | RPD | 1,1-Dichloroethane | 2025/07/28 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/07/28 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/07/28 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/07/28 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/07/28 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/07/28 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/07/28 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/07/28 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/07/28 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/07/28 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/07/28 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/07/28 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/07/28 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/07/28 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/07/28 | NC | | % | 40 |
| | | | Benzene | 2025/07/28 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/07/28 | NC | | % | 40 |
| | | | Bromoform | 2025/07/28 | NC | | % | 40 |
| | | | Bromomethane | 2025/07/28 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/07/28 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/07/28 | NC | | % | 40 |
| | | | Chloroethane | 2025/07/28 | NC | | % | 40 |
| | | | Chloroform | 2025/07/28 | NC | | % | 40 |
| | | | Chloromethane | 2025/07/28 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/07/28 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/07/28 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/28 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/07/28 | NC | | % | 40 |
| | | | Styrene | 2025/07/28 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/07/28 | NC | | % | 40 |
| | | | Toluene | 2025/07/28 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/07/28 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/07/28 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Vinyl Chloride | 2025/07/28 | NC | | % | 40 |
| | | | o-Xylene | 2025/07/28 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/07/28 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/28 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/07/28 | NC | | % | 40 |
| 9978161 | ABJ | Matrix Spike | Isobutylbenzene - Extractable | 2025/07/29 | | 107 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/29 | | 109 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/29 | | 104 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/29 | | 115 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/29 | | 112 | % | 70 - 130 |
| 9978161 | ABJ | Spiked Blank | Isobutylbenzene - Extractable | 2025/07/29 | | 84 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/29 | | 100 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/29 | | 94 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/07/29 | | 103 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/29 | | 102 | % | 70 - 130 |
| 9978161 | ABJ | Method Blank | Isobutylbenzene - Extractable | 2025/07/29 | | 82 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/07/29 | | 95 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/07/29 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/07/29 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/07/29 | <0.090 | | mg/L | |
| 9978161 | ABJ | RPD | >C10-C16 Hydrocarbons | 2025/07/29 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/07/29 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/07/29 | NC | | % | 40 |
| 9978231 | A1M | Matrix Spike | Isobutylbenzene - Volatile | 2025/07/28 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/07/28 | | 93 | % | 70 - 130 |
| | | | Toluene | 2025/07/28 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/28 | | 95 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/28 | | 98 | % | 70 - 130 |
| 9978231 | A1M | Spiked Blank | Isobutylbenzene - Volatile | 2025/07/28 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/07/28 | | 94 | % | 70 - 130 |
| | | | Toluene | 2025/07/28 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/07/28 | | 101 | % | 70 - 130 |
| | | | Total Xylenes | 2025/07/28 | | 105 | % | 70 - 130 |
| 9978231 | A1M | Method Blank | Isobutylbenzene - Volatile | 2025/07/28 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/07/28 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/07/28 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/07/28 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/07/28 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/07/28 | <0.090 | | mg/L | |
| 9978231 | A1M | RPD | Benzene | 2025/07/28 | NC | | % | 40 |
| | | | Toluene | 2025/07/28 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/07/28 | NC | | % | 40 |
| | | | Total Xylenes | 2025/07/28 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/07/28 | NC | | % | 40 |
| 9978596 | MOA | Matrix Spike [ATJR10-04] | Total Aluminum (Al) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/29 | | 106 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/29 | | 94 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/29 | | 91 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/29 | | 105 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Calcium (Ca) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/29 | | 107 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/29 | | 107 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/29 | | 109 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/29 | | 109 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/29 | | 107 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/29 | | 107 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/29 | | 111 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/29 | | 102 | % | 80 - 120 |
| 9978596 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/29 | | 93 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/29 | | 90 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/29 | | 106 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/29 | | 107 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/29 | | 109 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Vanadium (V) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/29 | | 103 | % | 80 - 120 |
| 9978596 | MOA | Method Blank | Total Aluminum (Al) | 2025/07/29 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/29 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/29 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/29 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/29 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/29 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/29 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/07/29 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/29 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/29 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/29 | <5.0 | | ug/L | |
| 9978596 | MOA | RPD [ATJR08-04] | Total Antimony (Sb) | 2025/07/29 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/29 | 10 | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/29 | 3.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/29 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/29 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/29 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/29 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/29 | 1.3 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/29 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/29 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/29 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/07/29 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/29 | NC | | % | 20 |
| | | | Total Lithium (Li) | 2025/07/29 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/29 | 0.39 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/29 | 2.4 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/29 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/07/29 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/29 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Potassium (K) | 2025/07/29 | 4.6 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/29 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/29 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/29 | 0.50 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/29 | 0.16 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/29 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/29 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/07/29 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/29 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/29 | NC | | % | 20 |
| 9978600 | EPA | Matrix Spike | D10-Anthracene | 2025/07/29 | | 84 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/29 | | 86 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/29 | | 83 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/29 | | 77 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/29 | | 83 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/29 | | 79 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/29 | | 84 | % | 50 - 130 |
| | | | Anthracene | 2025/07/29 | | 85 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/29 | | 96 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/29 | | 78 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/29 | | 78 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/29 | | 71 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/07/29 | | 85 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/29 | | 86 | % | 50 - 130 |
| | | | Chrysene | 2025/07/29 | | 93 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/29 | | 70 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/29 | | 93 | % | 50 - 130 |
| | | | Fluorene | 2025/07/29 | | 83 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/29 | | 69 | % | 50 - 130 |
| | | | Naphthalene | 2025/07/29 | | 75 | % | 50 - 130 |
| | | | Perylene | 2025/07/29 | | 75 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/29 | | 88 | % | 50 - 130 |
| | | | Pyrene | 2025/07/29 | | 89 | % | 50 - 130 |
| 9978600 | EPA | Spiked Blank | D10-Anthracene | 2025/07/29 | | 110 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/29 | | 112 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/29 | | 111 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/29 | | 104 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/07/29 | | 112 | % | 50 - 130 |
| | | | Acenaphthene | 2025/07/29 | | 104 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/07/29 | | 111 | % | 50 - 130 |
| | | | Anthracene | 2025/07/29 | | 125 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/07/29 | | 115 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/07/29 | | 93 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/07/29 | | 99 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/07/29 | | 75 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/07/29 | | 104 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/07/29 | | 101 | % | 50 - 130 |
| | | | Chrysene | 2025/07/29 | | 118 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/07/29 | | 71 | % | 50 - 130 |
| | | | Fluoranthene | 2025/07/29 | | 118 | % | 50 - 130 |
| | | | Fluorene | 2025/07/29 | | 109 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/29 | | 77 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Naphthalene | 2025/07/29 | | 103 | % | 50 - 130 |
| | | | Perylene | 2025/07/29 | | 87 | % | 50 - 130 |
| | | | Phenanthrene | 2025/07/29 | | 111 | % | 50 - 130 |
| | | | Pyrene | 2025/07/29 | | 116 | % | 50 - 130 |
| 9978600 | EPA | Method Blank | D10-Anthracene | 2025/07/29 | | 116 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/07/29 | | 118 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/07/29 | | 110 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/07/29 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/07/29 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/07/29 | <0.20 | | ug/L | |
| | | | Perylene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/07/29 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/07/29 | <0.010 | | ug/L | |
| 9978600 | EPA | RPD | 1-Methylnaphthalene | 2025/07/29 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/07/29 | NC | | % | 40 |
| | | | Acenaphthene | 2025/07/29 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/07/29 | NC | | % | 40 |
| | | | Anthracene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/07/29 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/07/29 | NC | | % | 40 |
| | | | Chrysene | 2025/07/29 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/07/29 | NC | | % | 40 |
| | | | Fluoranthene | 2025/07/29 | NC | | % | 40 |
| | | | Fluorene | 2025/07/29 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/07/29 | NC | | % | 40 |
| | | | Naphthalene | 2025/07/29 | NC | | % | 40 |
| | | | Perylene | 2025/07/29 | NC | | % | 40 |
| | | | Phenanthrene | 2025/07/29 | 7.7 | | % | 40 |
| | | | Pyrene | 2025/07/29 | NC | | % | 40 |
| 9978630 | ZZH | QC Standard | Total Suspended Solids | 2025/07/30 | | 99 | % | 80 - 120 |
| 9978630 | ZZH | Method Blank | Total Suspended Solids | 2025/07/30 | <1.0 | | mg/L | |
| 9978630 | ZZH | RPD | Total Suspended Solids | 2025/07/30 | 4.3 | | % | 20 |
| 9978716 | M2C | Spiked Blank | pH | 2025/07/29 | | 100 | % | 97 - 103 |
| 9978716 | M2C | RPD | pH | 2025/07/29 | 0.38 | | % | N/A |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9978719 | M2C | Spiked Blank | Conductivity | 2025/07/29 | | 97 | % | 80 - 120 |
| 9978719 | M2C | Method Blank | Conductivity | 2025/07/29 | <1.0 | | uS/cm | |
| 9978719 | M2C | RPD | Conductivity | 2025/07/29 | 0.20 | | % | 10 |
| 9978720 | MOA | Matrix Spike | Dissolved Aluminum (Al) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/29 | | 95 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/29 | | 92 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/29 | | 106 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/29 | | 97 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/29 | | 96 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/29 | | 100 | % | 80 - 120 |
| 9978720 | MOA | Spiked Blank | Dissolved Aluminum (Al) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/29 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/29 | | 93 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/29 | | 106 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/29 | | 104 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/29 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Nickel (Ni) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/29 | | 108 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/29 | | 99 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/29 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/29 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/29 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/29 | | 103 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/29 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/29 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/29 | | 101 | % | 80 - 120 |
| 9978720 | MOA | Method Blank | Dissolved Aluminum (Al) | 2025/07/29 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/07/29 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/07/29 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/07/29 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/07/29 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/07/29 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/07/29 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/07/29 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/07/29 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/07/29 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/07/29 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/07/29 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/07/29 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/07/29 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/07/29 | <5.0 | | ug/L | |
| 9978720 | MOA | RPD | Dissolved Aluminum (Al) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/07/29 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Calcium (Ca) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/07/29 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/07/29 | NC | | % | 20 |
| 9978722 | M2C | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/07/29 | | 94 | % | 80 - 120 |
| 9978722 | M2C | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/07/29 | <2.0 | | mg/L | |
| 9978722 | M2C | RPD | Total Alkalinity (Total as CaCO3) | 2025/07/29 | 0.087 | | % | 20 |
| 9978723 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/07/29 | | 92 | % | 80 - 120 |
| 9978723 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/07/29 | | 93 | % | 80 - 120 |
| 9978723 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/07/29 | <0.10 | | mg/L | |
| 9978723 | M2C | RPD | Dissolved Fluoride (F-) | 2025/07/29 | NC | | % | 20 |
| 9978727 | EMT | Matrix Spike | Dissolved Chloride (Cl-) | 2025/07/30 | | 92 | % | 80 - 120 |
| 9978727 | EMT | Spiked Blank | Dissolved Chloride (Cl-) | 2025/07/30 | | 92 | % | 80 - 120 |
| 9978727 | EMT | Method Blank | Dissolved Chloride (Cl-) | 2025/07/30 | <1.0 | | mg/L | |
| 9978727 | EMT | RPD | Dissolved Chloride (Cl-) | 2025/07/30 | 3.1 | | % | 20 |
| 9978752 | EMT | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | | 98 | % | 80 - 120 |
| 9978752 | EMT | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | | 94 | % | 80 - 120 |
| 9978752 | EMT | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | <0.050 | | mg/L | |
| 9978752 | EMT | RPD | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | NC | | % | 20 |
| 9978756 | EMT | Matrix Spike [ATJR10-10] | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | | 95 | % | 80 - 120 |
| 9978756 | EMT | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | | 100 | % | 80 - 120 |
| 9978756 | EMT | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | <0.050 | | mg/L | |
| 9978756 | EMT | RPD [ATJR10-10] | Nitrogen (Ammonia Nitrogen) | 2025/07/30 | NC | | % | 20 |
| 9978790 | EMT | Matrix Spike | Dissolved Sulphate (SO4) | 2025/07/30 | | 97 | % | 80 - 120 |
| 9978790 | EMT | Spiked Blank | Dissolved Sulphate (SO4) | 2025/07/30 | | 94 | % | 80 - 120 |
| 9978790 | EMT | Method Blank | Dissolved Sulphate (SO4) | 2025/07/30 | <2.0 | | mg/L | |
| 9978790 | EMT | RPD | Dissolved Sulphate (SO4) | 2025/07/30 | NC | | % | 20 |
| 9978793 | EMT | Matrix Spike | Reactive Silica (SiO2) | 2025/07/30 | | 86 | % | 80 - 120 |
| 9978793 | EMT | Spiked Blank | Reactive Silica (SiO2) | 2025/07/30 | | 91 | % | 80 - 120 |
| 9978793 | EMT | Method Blank | Reactive Silica (SiO2) | 2025/07/30 | <0.50 | | mg/L | |
| 9978793 | EMT | RPD | Reactive Silica (SiO2) | 2025/07/30 | 0.046 | | % | 20 |
| 9978796 | EMT | Spiked Blank | Colour | 2025/07/30 | | 97 | % | 80 - 120 |
| 9978796 | EMT | Method Blank | Colour | 2025/07/30 | <5.0 | | TCU | |
| 9978796 | EMT | RPD | Colour | 2025/07/30 | 5.4 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9978797 | EMT | Matrix Spike | Orthophosphate (P) | 2025/07/30 | | 90 | % | 80 - 120 |
| 9978797 | EMT | Spiked Blank | Orthophosphate (P) | 2025/07/30 | | 95 | % | 80 - 120 |
| 9978797 | EMT | Method Blank | Orthophosphate (P) | 2025/07/30 | <0.010 | | mg/L | |
| 9978797 | EMT | RPD | Orthophosphate (P) | 2025/07/30 | 14 | | % | 20 |
| 9978799 | EMT | Matrix Spike | Nitrate + Nitrite (N) | 2025/07/30 | | 98 | % | 80 - 120 |
| 9978799 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/07/30 | | 100 | % | 80 - 120 |
| 9978799 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/07/30 | <0.050 | | mg/L | |
| 9978799 | EMT | RPD | Nitrate + Nitrite (N) | 2025/07/30 | NC | | % | 20 |
| 9978800 | EMT | Matrix Spike | Nitrite (N) | 2025/07/30 | | 99 | % | 80 - 120 |
| 9978800 | EMT | Spiked Blank | Nitrite (N) | 2025/07/30 | | 103 | % | 80 - 120 |
| 9978800 | EMT | Method Blank | Nitrite (N) | 2025/07/30 | <0.010 | | mg/L | |
| 9978800 | EMT | RPD | Nitrite (N) | 2025/07/30 | NC | | % | 20 |
| 9978801 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/29 | | 99 | % | 85 - 115 |
| 9978801 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/29 | | 97 | % | 80 - 120 |
| 9978801 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/29 | <0.50 | | mg/L | |
| 9978801 | S6S | RPD | Total Organic Carbon (C) | 2025/07/29 | 0.66 | | % | 15 |
| 9978859 | ISM | QC Standard | Total Suspended Solids | 2025/07/31 | | 100 | % | 80 - 120 |
| 9978859 | ISM | Method Blank | Total Suspended Solids | 2025/07/31 | <1.0 | | mg/L | |
| 9978859 | ISM | RPD | Total Suspended Solids | 2025/07/31 | 38 (2) | | % | 20 |
| 9978939 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/07/30 | | 103 | % | 80 - 120 |
| 9978939 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/07/30 | | 99 | % | 80 - 120 |
| 9978939 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/07/30 | <0.013 | | ug/L | |
| 9978939 | JEP | RPD | Dissolved Mercury (Hg) | 2025/07/30 | NC | | % | 20 |
| 9979533 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/07/31 | | 103 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/31 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/31 | | 107 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/31 | | 104 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/31 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/31 | | 103 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/31 | | 104 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/31 | | 108 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/31 | | 102 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/31 | | 103 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/31 | | 106 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/31 | | 106 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/31 | | 109 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/31 | | 103 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/31 | | 106 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/31 | | 107 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/31 | | 106 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/31 | | 110 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/31 | | 107 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/31 | | 107 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/31 | | 101 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/31 | | 102 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/31 | | 105 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/31 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/31 | | 108 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/31 | | 103 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/31 | | 108 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/31 | | 105 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/31 | | 113 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Vanadium (V) | 2025/07/31 | | 108 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/31 | | 105 | % | 80 - 120 |
| 9979533 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/07/30 | | 96 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/07/30 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/07/30 | | 98 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/07/30 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/07/30 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/07/30 | | 107 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/07/30 | | 101 | % | 80 - 120 |
| 9979533 | MOA | Method Blank | Total Aluminum (Al) | 2025/07/30 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/07/30 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/07/30 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/07/30 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/07/30 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/07/30 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/07/30 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/07/30 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Phosphorus (P) | 2025/07/30 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/07/30 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/07/30 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/07/30 | <5.0 | | ug/L | |
| 9979533 | MOA | RPD | Total Aluminum (Al) | 2025/07/31 | NC | | % | 20 |
| | | | Total Antimony (Sb) | 2025/07/31 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/07/31 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/07/31 | 3.3 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/07/31 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/07/31 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/07/31 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/07/31 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/07/31 | 4.1 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/07/31 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/07/31 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/07/31 | 2.7 | | % | 20 |
| | | | Total Iron (Fe) | 2025/07/31 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/07/31 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/07/31 | 0.39 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/07/31 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/07/31 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/07/31 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/07/31 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/07/31 | 4.0 | | % | 20 |
| | | | Total Selenium (Se) | 2025/07/31 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/07/31 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/07/31 | 4.6 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/07/31 | 2.4 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/07/31 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/07/31 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/07/31 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/07/31 | 3.9 | | % | 20 |
| | | | Total Vanadium (V) | 2025/07/31 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/07/31 | 1.9 | | % | 20 |
| 9979544 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/07/30 | | 101 | % | 85 - 115 |
| 9979544 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/07/30 | | 98 | % | 80 - 120 |
| 9979544 | S6S | Method Blank | Total Organic Carbon (C) | 2025/07/30 | <0.50 | | mg/L | |
| 9979544 | S6S | RPD | Total Organic Carbon (C) | 2025/07/30 | NC | | % | 15 |
| 9979610 | MTZ | Matrix Spike [ATJR09-05] | Dissolved Aluminum (Al) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/30 | | 98 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Boron (B) | 2025/07/30 | | 94 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/30 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/30 | | 107 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/30 | | 109 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/30 | | 109 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/30 | | 103 | % | 80 - 120 |
| 9979610 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/07/30 | | 106 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/07/30 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/07/30 | | 92 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/07/30 | | 106 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/07/30 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/07/30 | | 110 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/07/30 | | 111 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/07/30 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/07/30 | | 111 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/07/30 | | 104 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/07/30 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/07/30 | | 107 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/07/30 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/07/30 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Titanium (Ti) | 2025/07/30 | | 100 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/07/30 | | 107 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/07/30 | | 103 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/07/30 | | 102 | % | 80 - 120 |
| 9979610 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/07/30 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/07/30 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/07/30 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/07/30 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/07/30 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/07/30 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/07/30 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/07/30 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/07/30 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/07/30 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/07/30 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/07/30 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/07/30 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/07/30 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/07/30 | <5.0 | | ug/L | |
| 9979610 | MTZ | RPD [ATJR09-05] | Dissolved Aluminum (Al) | 2025/07/30 | 4.8 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/07/30 | 4.6 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/07/30 | 0.018 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/07/30 | 6.4 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Lithium (Li) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/07/30 | 2.7 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/07/30 | 0.82 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Molybdenum (Mo) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/07/30 | 0.65 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/07/30 | 0.13 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/07/30 | 0.34 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/07/30 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/07/30 | NC | | % | 20 |
| 9980046 | KMC | QC Standard | Turbidity | 2025/07/31 | | 99 | % | 80 - 120 |
| 9980046 | KMC | Spiked Blank | Turbidity | 2025/07/31 | | 100 | % | 80 - 120 |
| 9980046 | KMC | Method Blank | Turbidity | 2025/07/31 | <0.10 | | NTU | |
| 9980046 | KMC | RPD | Turbidity | 2025/07/31 | 12 | | % | 20 |
| 9980386 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/07/31 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/31 | | 102 | % | 80 - 120 |
| 9980386 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/07/31 | | 98 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/07/31 | | 101 | % | 80 - 120 |
| 9980386 | MOA | Method Blank | Total Aluminum (Al) | 2025/07/31 | <5.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/07/31 | <2.0 | | ug/L | |
| 9980386 | MOA | RPD | Total Aluminum (Al) | 2025/07/31 | 2.2 | | % | 20 |
| 9981349 | KMC | QC Standard | Turbidity | 2025/08/01 | | 103 | % | 80 - 120 |
| 9981349 | KMC | Spiked Blank | Turbidity | 2025/08/01 | | 104 | % | 80 - 120 |
| 9981349 | KMC | Method Blank | Turbidity | 2025/08/01 | <0.10 | | NTU | |
| 9981349 | KMC | RPD [ATJR09-02] | Turbidity | 2025/08/01 | 3.4 | | % | 20 |
| 9984041 | SB1 | Method Blank | Carbon Dioxide | 2025/08/06 | <0.6 | | L/m3 | |
| 9984041 | SB1 | RPD [ATJR08-13] | Carbon Dioxide | 2025/08/06 | 9.2 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.

(2) Duplicate failure, insufficient sample for repeat analysis.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

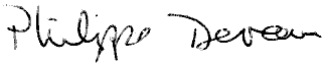
Bureau Veritas Job #: C590199
Report Date: 2025/08/08

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist



Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K329820

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Aug 15, 2025

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

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# Certificate of Analysis

AGAT WORK ORDER: 25K329820

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-08-07

DATE REPORTED: 2025-08-15

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-08-06 13:20 | 2025-08-06 12:34 | 2025-08-06 11:45 |
| Parameter | Unit | G / S | RDL | | 6947561 | 6947568 | 6947569 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 980 | 816 | 2420 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 71 | 1 | 5 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 9.80 | 8.16 | 24.2 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.71 | 0.01 | 0.05 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle



Results relate only to the items tested. Results apply to samples as received.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K329820

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

Unit 1 • 57 Old Pennywell Rd
St John's, NL
A1E 6A8
P: 709.747.8573

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## Chain of Custody Record

**Laboratory Use Only**

Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 5.9, 5.4, 4.6
Hold Time:
AGAT Job Number: 25k329820
Notes:

### Report Information

Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045IIM
Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):

1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

### Report Format

☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

### Turnaround Time Required (TAT)

**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

### Invoice To

Same Yes ☐ / No ☐

Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

### Regulatory Requirements (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube

☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 2025-08-06 13:20 | water | 1 | |
| WQM-4 | 2025-08-06 12:34 | water | 1 | |
| WQM-5 | 2025-08-06 11:45 | water | 1 | |

| Field Filtered/Preserved | Standard Water Analysis | **Metals:** ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | **Tier 1:** TPH/BTEX (PIRI) ☐ low level | **Tier 2:** TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | **Other:** Total Coliforms E.Coli MPN | **Other:** | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |

Samples Relinquished By (Print Name): JESSICA MIGNATTI
Samples Relinquished By (Sign):
Date/Time: Aug 7 2025
Samples Received By (Print Name): Katrina Al-Deir
Samples Received By (Sign):
Date/Time: Aug 7, 2025 9:35

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 1
N°:

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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/19**
Report #: R8596307
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C596429**
**Received: 2025/08/08, 09:35**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/08/15 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/08/14 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/08/14 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/08/14 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/08/18 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/08/14 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/08/14 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/08/11 | 2025/08/11 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/08/14 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/08/08 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/08/14 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/08/13 | 2025/08/14 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/08/12 | 2025/08/12 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/08/14 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/08/13 | 2025/08/13 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/08/15 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/08/15 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/08/12 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/08/14 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/08/14 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/08/15 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/08/11 | 2025/08/11 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/08/14 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/08/14 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/08/15 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/08/15 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/08/14 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/08/14 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/08/15 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 3 | N/A | 2025/08/13 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 2 | N/A | 2025/08/13 | N/A | Atl. RBCA v3 m |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/19**
Report #: R8596307
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C596429**
**Received: 2025/08/08, 09:35**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| ModTPH (T1) Calc. for Water | 1 | N/A | 2025/08/14 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 2 | 2025/08/12 | 2025/08/13 | ATL SOP 00007 | SM 24 2540D m |
| Total Suspended Solids | 1 | 2025/08/12 | 2025/08/14 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 2 | N/A | 2025/08/14 | ATL SOP 00011 | EPA 180.1 R2 m |
| Turbidity | 1 | N/A | 2025/08/15 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/08/13 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 2 | N/A | 2025/08/12 | ATL SOP 00130 | Atl. RBCA v3.1 m |
| VPH in Water (PIRI) | 1 | N/A | 2025/08/14 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Sample filtered in laboratory prior to analysis for dissolved metals.
(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/08/19**
Report #: R8596307
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C596429**

**Received: 2025/08/08, 09:35**

report are reported past the APHA Standard Method holding time.
(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ATVO78 | | | ATVO78 | | | ATVO79 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | | | 2025/08/06 13:20 | | | 2025/08/06 12:34 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 1.18 | N/A | 9985254 | | | | 0.720 | N/A | 9985254 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 48 | 1.0 | 9985249 | | | | 27 | 1.0 | 9985249 |
| Calculated TDS | mg/L | 66 | 1.0 | 9985260 | | | | 41 | 1.0 | 9985260 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9985249 | | | | <1.0 | 1.0 | 9985249 |
| Cation Sum | me/L | 1.26 | N/A | 9985254 | | | | 0.780 | N/A | 9985254 |
| Hardness (CaCO3) | mg/L | 53 | 1.0 | 9985251 | | | | 30 | 1.0 | 9985251 |
| Ion Balance (% Difference) | % | 3.28 | N/A | 9985252 | | | | 4.00 | N/A | 9985252 |
| Langelier Index (@ 20C) | N/A | -0.610 | | 9985258 | | | | -1.22 | | 9985258 |
| Langelier Index (@ 4C) | N/A | -0.862 | | 9985259 | | | | -1.47 | | 9985259 |
| Nitrate (N) | mg/L | 0.072 | 0.050 | 9985256 | | | | <0.050 | 0.050 | 9985256 |
| Saturation pH (@ 20C) | N/A | 8.41 | | 9985258 | | | | 8.91 | | 9985258 |
| Saturation pH (@ 4C) | N/A | 8.66 | | 9985259 | | | | 9.16 | | 9985259 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 48 | 2.0 | 9988835 | 48 | 2.0 | 9988835 | 27 | 2.0 | 9988835 |
| Dissolved Chloride (Cl-) | mg/L | 5.1 | 1.0 | 9989077 | | | | 4.7 | 1.0 | 9989077 |
| Colour | TCU | 24 | 5.0 | 9989080 | | | | 30 | 5.0 | 9989080 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9988837 | <0.10 | 0.10 | 9988837 | <0.10 | 0.10 | 9988837 |
| Nitrate + Nitrite (N) | mg/L | 0.072 | 0.050 | 9989082 | | | | <0.050 | 0.050 | 9989082 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9989083 | | | | <0.010 | 0.010 | 9989083 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9987467 | | | | <0.050 | 0.050 | 9987467 |
| Total Organic Carbon (C) | mg/L | 4.2 | 0.50 | 9988375 | | | | 6.7 | 0.50 | 9988375 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9989081 | | | | <0.010 | 0.010 | 9989081 |
| pH | pH | 7.80 | | 9988832 | 7.75 | | 9988832 | 7.69 | | 9988832 |
| Reactive Silica (SiO2) | mg/L | 4.5 | 0.50 | 9989079 | | | | 2.5 | 0.50 | 9989079 |
| Total Suspended Solids | mg/L | 1.8 | 1.0 | 9987432 | | | | 42 | 1.0 | 9987432 |
| Dissolved Sulphate (SO4) | mg/L | 3.5 | 2.0 | 9989078 | | | | 2.5 | 2.0 | 9989078 |
| Turbidity | NTU | 1.0 | 0.10 | 9989581 | | | | 10 | 0.10 | 9988787 |
| Conductivity | uS/cm | 120 | 1.0 | 9988834 | 120 | 1.0 | 9988834 | 75 | 1.0 | 9988834 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | ATVO80 | | |
|---|---|---|---|---|
| Sampling Date | | 2025/08/06 11:45 | | |
| COC Number | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | |
| Anion Sum | me/L | 1.00 | N/A | 9985254 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 40 | 1.0 | 9985249 |
| Calculated TDS | mg/L | 56 | 1.0 | 9985260 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9985249 |
| Cation Sum | me/L | 1.06 | N/A | 9985254 |
| Hardness (CaCO3) | mg/L | 43 | 1.0 | 9985251 |
| Ion Balance (% Difference) | % | 2.91 | N/A | 9985252 |
| Langelier Index (@ 20C) | N/A | -0.733 | | 9985258 |
| Langelier Index (@ 4C) | N/A | -0.985 | | 9985259 |
| Nitrate (N) | mg/L | <0.050 | 0.050 | 9985256 |
| Saturation pH (@ 20C) | N/A | 8.59 | | 9985258 |
| Saturation pH (@ 4C) | N/A | 8.84 | | 9985259 |
| **Inorganics** | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 40 | 2.0 | 9988835 |
| Dissolved Chloride (Cl-) | mg/L | 5.2 | 1.0 | 9989077 |
| Colour | TCU | 26 | 5.0 | 9989080 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9988837 |
| Nitrate + Nitrite (N) | mg/L | <0.050 | 0.050 | 9989082 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9989083 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9987467 |
| Total Organic Carbon (C) | mg/L | 5.7 | 0.50 | 9988375 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9989081 |
| pH | pH | 7.85 | | 9988832 |
| Reactive Silica (SiO2) | mg/L | 3.3 | 0.50 | 9989079 |
| Total Suspended Solids | mg/L | <1.0 | 1.0 | 9987481 |
| Dissolved Sulphate (SO4) | mg/L | 2.7 | 2.0 | 9989078 |
| Turbidity | NTU | 0.64 | 0.10 | 9988787 |
| Conductivity | uS/cm | 100 | 1.0 | 9988834 |

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N/A = Not Applicable



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Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | ATVO78 | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9989203 |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9986613 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATVO78 | | | ATVO78 | | | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | | | 2025/08/06 13:20 | | | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 11 | 5.0 | 9989238 | | | | 15 | 10 | 5.0 | 9989238 |
| Total Aluminum (Al) | ug/L | 25 | 5.0 | 9988254 | 24 | 5.0 | 9988254 | 58 | 14 | 5.0 | 9988254 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | 1.0 | 9989238 | | | | <1.0 | <1.0 | 1.0 | 9989238 |
| Total Antimony (Sb) | ug/L | <1.0 | 1.0 | 9988254 | <1.0 | 1.0 | 9988254 | <1.0 | <1.0 | 1.0 | 9988254 |
| Dissolved Arsenic (As) | ug/L | 1.3 | 1.0 | 9989238 | | | | 1.0 | <1.0 | 1.0 | 9989238 |
| Total Arsenic (As) | ug/L | 1.5 | 1.0 | 9988254 | 1.4 | 1.0 | 9988254 | 1.2 | 1.0 | 1.0 | 9988254 |
| Dissolved Barium (Ba) | ug/L | 15 | 1.0 | 9989238 | | | | 6.9 | 17 | 1.0 | 9989238 |
| Total Barium (Ba) | ug/L | 15 | 1.0 | 9988254 | 15 | 1.0 | 9988254 | 7.1 | 16 | 1.0 | 9988254 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 9989238 | | | | <0.10 | <0.10 | 0.10 | 9989238 |
| Total Beryllium (Be) | ug/L | <0.10 | 0.10 | 9988254 | <0.10 | 0.10 | 9988254 | <0.10 | <0.10 | 0.10 | 9988254 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Bismuth (Bi) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 9989238 | | | | <50 | <50 | 50 | 9989238 |
| Total Boron (B) | ug/L | <50 | 50 | 9988254 | <50 | 50 | 9988254 | <50 | <50 | 50 | 9988254 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9989238 | | | | <0.010 | <0.010 | 0.010 | 9989238 |
| Total Cadmium (Cd) | ug/L | <0.010 | 0.010 | 9988254 | <0.010 | 0.010 | 9988254 | <0.010 | <0.010 | 0.010 | 9988254 |
| Dissolved Calcium (Ca) | ug/L | 17000 | 100 | 9989238 | | | | 9200 | 13000 | 100 | 9989238 |
| Total Calcium (Ca) | ug/L | 16000 | 100 | 9988254 | 16000 | 100 | 9988254 | 9000 | 13000 | 100 | 9988254 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | 9989238 | | | | <1.0 | <1.0 | 1.0 | 9989238 |
| Total Chromium (Cr) | ug/L | <1.0 | 1.0 | 9988254 | <1.0 | 1.0 | 9988254 | <1.0 | <1.0 | 1.0 | 9988254 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | 0.40 | 9989238 | | | | <0.40 | <0.40 | 0.40 | 9989238 |
| Total Cobalt (Co) | ug/L | <0.40 | 0.40 | 9988254 | <0.40 | 0.40 | 9988254 | <0.40 | <0.40 | 0.40 | 9988254 |
| Dissolved Copper (Cu) | ug/L | <0.50 | 0.50 | 9989238 | | | | <0.50 | <0.50 | 0.50 | 9989238 |
| Total Copper (Cu) | ug/L | <0.50 | 0.50 | 9988254 | <0.50 | 0.50 | 9988254 | <0.50 | <0.50 | 0.50 | 9988254 |
| Dissolved Iron (Fe) | ug/L | 170 | 50 | 9989238 | | | | 64 | <50 | 50 | 9989238 |
| Total Iron (Fe) | ug/L | 230 | 50 | 9988254 | 230 | 50 | 9988254 | 190 | 69 | 50 | 9988254 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 0.50 | 9989238 | | | | <0.50 | <0.50 | 0.50 | 9989238 |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 9988254 | <0.50 | 0.50 | 9988254 | <0.50 | <0.50 | 0.50 | 9988254 |
| Dissolved Lithium (Li) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Lithium (Li) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Magnesium (Mg) | ug/L | 2600 | 100 | 9989238 | | | | 1700 | 2300 | 100 | 9989238 |
| Total Magnesium (Mg) | ug/L | 2500 | 100 | 9988254 | 2400 | 100 | 9988254 | 1600 | 2100 | 100 | 9988254 |

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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | ATVO78 | | | ATVO78 | | | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | | | 2025/08/06 13:20 | | | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| Dissolved Manganese (Mn) | ug/L | 2.7 | 2.0 | 9989238 | | | | 24 | 6.4 | 2.0 | 9989238 |
| Total Manganese (Mn) | ug/L | 19 | 2.0 | 9988254 | 18 | 2.0 | 9988254 | 44 | 11 | 2.0 | 9988254 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Molybdenum (Mo) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Nickel (Ni) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Phosphorus (P) | ug/L | <100 | 100 | 9989238 | | | | <100 | <100 | 100 | 9989238 |
| Total Phosphorus (P) | ug/L | <100 | 100 | 9988254 | <100 | 100 | 9988254 | <100 | <100 | 100 | 9988254 |
| Dissolved Potassium (K) | ug/L | 340 | 100 | 9989238 | | | | 250 | 270 | 100 | 9989238 |
| Total Potassium (K) | ug/L | 350 | 100 | 9988254 | 340 | 100 | 9988254 | 280 | 450 | 100 | 9988254 |
| Dissolved Selenium (Se) | ug/L | <0.50 | 0.50 | 9989238 | | | | <0.50 | <0.50 | 0.50 | 9989238 |
| Total Selenium (Se) | ug/L | <0.50 | 0.50 | 9988254 | <0.50 | 0.50 | 9988254 | <0.50 | <0.50 | 0.50 | 9988254 |
| Dissolved Silver (Ag) | ug/L | <0.10 | 0.10 | 9989238 | | | | <0.10 | <0.10 | 0.10 | 9989238 |
| Total Silver (Ag) | ug/L | <0.10 | 0.10 | 9988254 | <0.10 | 0.10 | 9988254 | <0.10 | <0.10 | 0.10 | 9988254 |
| Dissolved Sodium (Na) | ug/L | 4200 | 100 | 9989238 | | | | 3900 | 4500 | 100 | 9989238 |
| Total Sodium (Na) | ug/L | 4300 | 100 | 9988254 | 4200 | 100 | 9988254 | 3900 | 4700 | 100 | 9988254 |
| Dissolved Strontium (Sr) | ug/L | 56 | 2.0 | 9989238 | | | | 32 | 47 | 2.0 | 9989238 |
| Total Strontium (Sr) | ug/L | 54 | 2.0 | 9988254 | 52 | 2.0 | 9988254 | 32 | 45 | 2.0 | 9988254 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | 0.10 | 9989238 | | | | <0.10 | <0.10 | 0.10 | 9989238 |
| Total Thallium (Tl) | ug/L | <0.10 | 0.10 | 9988254 | <0.10 | 0.10 | 9988254 | <0.10 | <0.10 | 0.10 | 9988254 |
| Dissolved Tin (Sn) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Tin (Sn) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Titanium (Ti) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | 2.4 | <2.0 | 2.0 | 9988254 |
| Dissolved Uranium (U) | ug/L | <0.10 | 0.10 | 9989238 | | | | <0.10 | <0.10 | 0.10 | 9989238 |
| Total Uranium (U) | ug/L | <0.10 | 0.10 | 9988254 | <0.10 | 0.10 | 9988254 | <0.10 | <0.10 | 0.10 | 9988254 |
| Dissolved Vanadium (V) | ug/L | <2.0 | 2.0 | 9989238 | | | | <2.0 | <2.0 | 2.0 | 9989238 |
| Total Vanadium (V) | ug/L | <2.0 | 2.0 | 9988254 | <2.0 | 2.0 | 9988254 | <2.0 | <2.0 | 2.0 | 9988254 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 5.0 | 9989238 | | | | <5.0 | <5.0 | 5.0 | 9989238 |
| Total Zinc (Zn) | ug/L | <5.0 | 5.0 | 9988254 | <5.0 | 5.0 | 9988254 | <5.0 | 5.4 | 5.0 | 9988254 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## PERMANENT GASES (WATER)

| Bureau Veritas ID | | ATVO78 | | | ATVO78 | | | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | | | 2025/08/06 13:20 | | | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 1.3 | 0.6 | 9991841 | 0.9 | 0.6 | 9991841 | <0.6 | <0.6 | 0.6 | 9991841 |
| Calculated Carbon Dioxide | mg/L | 2 | 1 | 9985642 | | | | <1 | <1 | 1 | 9985642 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | ATVO78 | ATVO79 | | | ATVO79 | | | ATVO80 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | 2025/08/06 12:34 | | | 2025/08/06 12:34 | | | 2025/08/06 11:45 | | |
| COC Number | | N/A | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | 0.050 | 9986463 | <0.050 | 0.050 | 9986463 | <0.050 | 0.050 | 9986463 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | 0.050 | 9986463 | <0.050 | 0.050 | 9986463 | <0.050 | 0.050 | 9986463 |
| Acenaphthene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Anthracene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | 0.020 | 9985780 | | | | <0.020 | 0.020 | 9985780 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Chrysene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Fluoranthene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Fluorene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Naphthalene | ug/L | <0.20 | <0.20 | 0.20 | 9986463 | <0.20 | 0.20 | 9986463 | <0.20 | 0.20 | 9986463 |
| Perylene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| Phenanthrene | ug/L | 0.017 | 0.023 | 0.010 | 9986463 | 0.022 | 0.010 | 9986463 | 0.020 | 0.010 | 9986463 |
| Pyrene | ug/L | <0.010 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 | <0.010 | 0.010 | 9986463 |
| **Surrogate Recovery (%)** | | | | | | | | | | | |
| D10-Anthracene | % | 88 | 88 | | 9986463 | 88 | | 9986463 | 73 | | 9986463 |
| D14-Terphenyl | % | 89 (1) | 89 (1) | | 9986463 | 91 (1) | | 9986463 | 74 (1) | | 9986463 |
| D8-Acenaphthylene | % | 90 | 88 | | 9986463 | 89 | | 9986463 | 71 | | 9986463 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | ATVO78 | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9987826 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9987826 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9987826 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9987826 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | 9987826 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9987826 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | 9987826 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | ATVO78 | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/08/06 13:20 | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9987826 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9987826 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9987826 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 100 | 100 | 103 | | 9987826 |
| D4-1,2-Dichloroethane | % | 103 | 100 | 89 | | 9987826 |
| D8-Toluene | % | 98 | 98 | 102 | | 9987826 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | ATVO78 | ATVO79 | ATVO80 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/06 13:20 | 2025/08/06 12:34 | 2025/08/06 11:45 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9987369 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9987369 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9987369 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9987369 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9987369 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9986474 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9986474 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9986474 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9985275 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9986474 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9986474 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 106 | 111 | 111 | | 9986474 |
| n-Dotriacontane - Extractable | % | 104 | 111 | 106 | | 9986474 |
| Isobutylbenzene - Volatile | % | 101 | 102 | 102 | | 9987369 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 6.3°C |

Sample ATVO78 [WQM-3] : Total Suspended Solids: Used all of the sample provided, DL raised.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9986463 | EPA | Matrix Spike [ATVO80-05] | D10-Anthracene | 2025/08/11 | | 89 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/08/11 | | 90 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/11 | | 91 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/11 | | 79 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/08/11 | | 86 | % | 50 - 130 |
| | | | Acenaphthene | 2025/08/11 | | 78 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/08/11 | | 86 | % | 50 - 130 |
| | | | Anthracene | 2025/08/11 | | 93 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/08/11 | | 89 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/08/11 | | 84 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/08/11 | | 84 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/08/11 | | 76 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/08/11 | | 84 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/08/11 | | 79 | % | 50 - 130 |
| | | | Chrysene | 2025/08/11 | | 86 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/08/11 | | 77 | % | 50 - 130 |
| | | | Fluoranthene | 2025/08/11 | | 86 | % | 50 - 130 |
| | | | Fluorene | 2025/08/11 | | 83 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/11 | | 78 | % | 50 - 130 |
| | | | Naphthalene | 2025/08/11 | | 81 | % | 50 - 130 |
| | | | Perylene | 2025/08/11 | | 81 | % | 50 - 130 |
| | | | Phenanthrene | 2025/08/11 | | 77 | % | 50 - 130 |
| | | | Pyrene | 2025/08/11 | | 83 | % | 50 - 130 |
| 9986463 | EPA | Spiked Blank | D10-Anthracene | 2025/08/11 | | 97 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/08/11 | | 99 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/11 | | 106 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/11 | | 98 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/08/11 | | 109 | % | 50 - 130 |
| | | | Acenaphthene | 2025/08/11 | | 98 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/08/11 | | 108 | % | 50 - 130 |
| | | | Anthracene | 2025/08/11 | | 114 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/08/11 | | 107 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/08/11 | | 104 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/08/11 | | 102 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/08/11 | | 98 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/08/11 | | 104 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/08/11 | | 101 | % | 50 - 130 |
| | | | Chrysene | 2025/08/11 | | 106 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/08/11 | | 98 | % | 50 - 130 |
| | | | Fluoranthene | 2025/08/11 | | 105 | % | 50 - 130 |
| | | | Fluorene | 2025/08/11 | | 103 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/11 | | 100 | % | 50 - 130 |
| | | | Naphthalene | 2025/08/11 | | 104 | % | 50 - 130 |
| | | | Perylene | 2025/08/11 | | 101 | % | 50 - 130 |
| | | | Phenanthrene | 2025/08/11 | | 96 | % | 50 - 130 |
| | | | Pyrene | 2025/08/11 | | 101 | % | 50 - 130 |
| 9986463 | EPA | Method Blank | D10-Anthracene | 2025/08/11 | | 100 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/08/11 | | 101 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/11 | | 104 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/11 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/08/11 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/08/11 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthylene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/08/11 | <0.20 | | ug/L | |
| | | | Perylene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/08/11 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/08/11 | <0.010 | | ug/L | |
| 9986463 | EPA | RPD [ATVO79-05] | 1-Methylnaphthalene | 2025/08/11 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/08/11 | NC | | % | 40 |
| | | | Acenaphthene | 2025/08/11 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/08/11 | NC | | % | 40 |
| | | | Anthracene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/08/11 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/08/11 | NC | | % | 40 |
| | | | Chrysene | 2025/08/11 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/08/11 | NC | | % | 40 |
| | | | Fluoranthene | 2025/08/11 | NC | | % | 40 |
| | | | Fluorene | 2025/08/11 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/11 | NC | | % | 40 |
| | | | Naphthalene | 2025/08/11 | NC | | % | 40 |
| | | | Perylene | 2025/08/11 | NC | | % | 40 |
| | | | Phenanthrene | 2025/08/11 | 5.8 | | % | 40 |
| | | | Pyrene | 2025/08/11 | NC | | % | 40 |
| 9986474 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/08/11 | | 104 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/11 | | 110 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/11 | | 101 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/08/11 | | 110 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/11 | | 98 | % | 70 - 130 |
| 9986474 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/08/11 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/11 | | 111 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/11 | | 99 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/08/11 | | 104 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/11 | | 90 | % | 70 - 130 |
| 9986474 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/08/11 | | 83 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/11 | | 108 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/11 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/08/11 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/08/11 | <0.090 | | mg/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9986474 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/08/11 | 1.9 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/08/11 | 18 | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/11 | 13 | | % | 40 |
| 9986613 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/08/12 | | 109 | % | 80 - 120 |
| 9986613 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/08/12 | | 98 | % | 80 - 120 |
| 9986613 | JEP | Method Blank | Total Mercury (Hg) | 2025/08/12 | <0.013 | | ug/L | |
| 9986613 | JEP | RPD | Total Mercury (Hg) | 2025/08/12 | NC | | % | 20 |
| 9987369 | ASL | Matrix Spike | Isobutylbenzene - Volatile | 2025/08/12 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/08/12 | | 98 | % | 70 - 130 |
| | | | Toluene | 2025/08/12 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/12 | | 101 | % | 70 - 130 |
| | | | Total Xylenes | 2025/08/12 | | 101 | % | 70 - 130 |
| 9987369 | ASL | Spiked Blank | Isobutylbenzene - Volatile | 2025/08/12 | | 105 | % | 70 - 130 |
| | | | Benzene | 2025/08/12 | | 96 | % | 70 - 130 |
| | | | Toluene | 2025/08/12 | | 93 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/12 | | 101 | % | 70 - 130 |
| | | | Total Xylenes | 2025/08/12 | | 100 | % | 70 - 130 |
| 9987369 | ASL | Method Blank | Isobutylbenzene - Volatile | 2025/08/12 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/08/12 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/08/12 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/08/12 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/08/12 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/08/12 | <0.090 | | mg/L | |
| 9987369 | ASL | RPD | Benzene | 2025/08/12 | NC | | % | 40 |
| | | | Toluene | 2025/08/12 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/08/12 | NC | | % | 40 |
| | | | Total Xylenes | 2025/08/12 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/08/12 | NC | | % | 40 |
| 9987432 | RD4 | QC Standard | Total Suspended Solids | 2025/08/13 | | 98 | % | 80 - 120 |
| 9987432 | RD4 | Method Blank | Total Suspended Solids | 2025/08/13 | <1.0 | | mg/L | |
| 9987432 | RD4 | RPD | Total Suspended Solids | 2025/08/13 | 3.7 | | % | 20 |
| 9987467 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/08/12 | | 97 | % | 80 - 120 |
| 9987467 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/08/12 | | 101 | % | 80 - 120 |
| 9987467 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/08/12 | <0.050 | | mg/L | |
| 9987467 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/08/12 | NC | | % | 20 |
| 9987481 | ISM | QC Standard | Total Suspended Solids | 2025/08/14 | | 99 | % | 80 - 120 |
| 9987481 | ISM | Method Blank | Total Suspended Solids | 2025/08/14 | <1.0 | | mg/L | |
| 9987481 | ISM | RPD | Total Suspended Solids | 2025/08/14 | 5.4 | | % | 20 |
| 9987826 | ASL | Matrix Spike | 4-Bromofluorobenzene | 2025/08/13 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/13 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/13 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/08/13 | | 100 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/08/13 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/08/13 | | 92 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,3-Dichlorobenzene | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/08/13 | | 100 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Bromoform | 2025/08/13 | | 100 | % | 70 - 130 |
| | | | Bromomethane | 2025/08/13 | | 100 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/08/13 | | 105 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/08/13 | | 90 | % | 70 - 130 |
| | | | Chloroethane | 2025/08/13 | | 92 | % | 60 - 140 |
| | | | Chloroform | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | Chloromethane | 2025/08/13 | | 91 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/13 | | 88 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | Styrene | 2025/08/13 | | 89 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | Toluene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/08/13 | | 89 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/13 | | 99 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/08/13 | | 89 | % | 60 - 140 |
| | | | o-Xylene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/08/13 | | 92 | % | 70 - 130 |
| 9987826 | ASL | Spiked Blank | 4-Bromofluorobenzene | 2025/08/13 | | 101 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/13 | | 103 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/13 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/08/13 | | 99 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/13 | | 93 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/08/13 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/08/13 | | 95 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/08/13 | | 93 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/08/13 | | 97 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | Benzene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Bromoform | 2025/08/13 | | 103 | % | 70 - 130 |
| | | | Bromomethane | 2025/08/13 | | 97 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/08/13 | | 104 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/08/13 | | 93 | % | 70 - 130 |
| | | | Chloroethane | 2025/08/13 | | 92 | % | 60 - 140 |
| | | | Chloroform | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | Chloromethane | 2025/08/13 | | 91 | % | 60 - 140 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dibromochloromethane | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/13 | | 91 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/13 | | 96 | % | 70 - 130 |
| | | | Styrene | 2025/08/13 | | 93 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/08/13 | | 93 | % | 70 - 130 |
| | | | Toluene | 2025/08/13 | | 92 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/08/13 | | 89 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/13 | | 97 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/08/13 | | 88 | % | 60 - 140 |
| | | | o-Xylene | 2025/08/13 | | 94 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/08/13 | | 95 | % | 70 - 130 |
| 9987826 | ASL | Method Blank | 4-Bromofluorobenzene | 2025/08/13 | | 101 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/13 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/13 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/13 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/08/13 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/08/13 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/08/13 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/13 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/08/13 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/08/13 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/08/13 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/08/13 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/08/13 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/08/13 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/08/13 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/08/13 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/08/13 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Benzene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/08/13 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/08/13 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/08/13 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/08/13 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/08/13 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/08/13 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/08/13 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/08/13 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/13 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Styrene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Toluene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/08/13 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/13 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/08/13 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/08/13 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/08/13 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Trihalomethanes | 2025/08/13 | <1.0 | | ug/L | |
| 9987826 | ASL | RPD | 1,1-Dichloroethane | 2025/08/13 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/08/13 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/08/13 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/08/13 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/13 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/08/13 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/08/13 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/08/13 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/08/13 | 3.9 | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/08/13 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/08/13 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/08/13 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/08/13 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/08/13 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/08/13 | NC | | % | 40 |
| | | | Benzene | 2025/08/13 | 2.2 | | % | 40 |
| | | | Bromodichloromethane | 2025/08/13 | NC | | % | 40 |
| | | | Bromoform | 2025/08/13 | NC | | % | 40 |
| | | | Bromomethane | 2025/08/13 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/08/13 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/08/13 | 4.2 | | % | 40 |
| | | | Chloroethane | 2025/08/13 | NC | | % | 40 |
| | | | Chloroform | 2025/08/13 | NC | | % | 40 |
| | | | Chloromethane | 2025/08/13 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/08/13 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/13 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/08/13 | 4.7 | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/13 | 1.1 | | % | 40 |
| | | | Styrene | 2025/08/13 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/08/13 | NC | | % | 40 |
| | | | Toluene | 2025/08/13 | 3.9 | | % | 40 |
| | | | Trichloroethylene | 2025/08/13 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/13 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/08/13 | NC | | % | 40 |
| | | | o-Xylene | 2025/08/13 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/08/13 | NC | | % | 40 |
| | | | Total Xylenes | 2025/08/13 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/08/13 | NC | | % | 40 |
| 9988254 | MOA | Matrix Spike [ATVO79-07] | Total Aluminum (Al) | 2025/08/13 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/08/13 | | 107 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/08/13 | | 107 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/08/13 | | 110 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/08/13 | | 108 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Lead (Pb) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/08/13 | | 109 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/08/13 | | 109 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/08/13 | | 107 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/08/13 | | 107 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/08/13 | | 101 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/08/13 | | 108 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/08/13 | | 108 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/08/13 | | 110 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/08/13 | | 106 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/08/13 | | 103 | % | 80 - 120 |
| 9988254 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/08/13 | | 97 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/08/13 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/08/13 | | 106 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/08/13 | | 108 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/08/13 | | 100 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/08/13 | | 101 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/08/13 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/08/13 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/08/13 | | 100 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/08/13 | | 108 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/08/13 | | 106 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/08/13 | | 101 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/08/13 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/08/13 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/08/13 | | 108 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/08/13 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/08/13 | | 104 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/08/13 | | 105 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/08/13 | | 103 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/08/13 | | 101 | % | 80 - 120 |
| 9988254 | MOA | Method Blank | Total Aluminum (Al) | 2025/08/13 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/08/13 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/08/13 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Barium (Ba) | 2025/08/13 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/08/13 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/08/13 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/08/13 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/08/13 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/08/13 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/08/13 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/08/13 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/08/13 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/08/13 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/08/13 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/08/13 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/08/13 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/08/13 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/08/13 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/08/13 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/08/13 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/08/13 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/08/13 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/08/13 | <5.0 | | ug/L | |
| 9988254 | MOA | RPD [ATVO78-07] | Total Aluminum (Al) | 2025/08/13 | 1.0 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/08/13 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/08/13 | 2.2 | | % | 20 |
| | | | Total Barium (Ba) | 2025/08/13 | 2.8 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/08/13 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/08/13 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/08/13 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/08/13 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/08/13 | 2.9 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/08/13 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/08/13 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/08/13 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/08/13 | 1.3 | | % | 20 |
| | | | Total Lead (Pb) | 2025/08/13 | NC | | % | 20 |
| | | | Total Lithium (Li) | 2025/08/13 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/08/13 | 3.5 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/08/13 | 5.2 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/08/13 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/08/13 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/08/13 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/08/13 | 0.98 | | % | 20 |
| | | | Total Selenium (Se) | 2025/08/13 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/08/13 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/08/13 | 3.3 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Strontium (Sr) | 2025/08/13 | 3.3 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/08/13 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/08/13 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/08/13 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/08/13 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/08/13 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/08/13 | NC | | % | 20 |
| 9988375 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/08/13 | | 98 | % | 85 - 115 |
| 9988375 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/08/13 | | 100 | % | 80 - 120 |
| 9988375 | S6S | Method Blank | Total Organic Carbon (C) | 2025/08/13 | <0.50 | | mg/L | |
| 9988375 | S6S | RPD | Total Organic Carbon (C) | 2025/08/13 | 12 | | % | 15 |
| 9988787 | KMC | QC Standard | Turbidity | 2025/08/14 | | 100 | % | 80 - 120 |
| 9988787 | KMC | Spiked Blank | Turbidity | 2025/08/14 | | 104 | % | 80 - 120 |
| 9988787 | KMC | Method Blank | Turbidity | 2025/08/14 | <0.10 | | NTU | |
| 9988787 | KMC | RPD | Turbidity | 2025/08/14 | 3.6 | | % | 20 |
| 9988832 | KMC | Spiked Blank | pH | 2025/08/14 | | 100 | % | 97 - 103 |
| 9988832 | KMC | RPD [ATVO78-02] | pH | 2025/08/14 | 0.73 | | % | N/A |
| 9988834 | KMC | Spiked Blank | Conductivity | 2025/08/14 | | 103 | % | 80 - 120 |
| 9988834 | KMC | Method Blank | Conductivity | 2025/08/14 | <1.0 | | uS/cm | |
| 9988834 | KMC | RPD [ATVO78-02] | Conductivity | 2025/08/14 | 0.17 | | % | 10 |
| 9988835 | KMC | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/08/14 | | 95 | % | 80 - 120 |
| 9988835 | KMC | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/08/14 | <2.0 | | mg/L | |
| 9988835 | KMC | RPD [ATVO78-02] | Total Alkalinity (Total as CaCO3) | 2025/08/14 | 0.017 | | % | 20 |
| 9988837 | M2C | Matrix Spike | Dissolved Fluoride (F-) | 2025/08/14 | | 99 | % | 80 - 120 |
| 9988837 | M2C | Spiked Blank | Dissolved Fluoride (F-) | 2025/08/14 | | 99 | % | 80 - 120 |
| 9988837 | M2C | Method Blank | Dissolved Fluoride (F-) | 2025/08/14 | <0.10 | | mg/L | |
| 9988837 | M2C | RPD [ATVO78-02] | Dissolved Fluoride (F-) | 2025/08/14 | NC | | % | 20 |
| 9989077 | EMT | Matrix Spike | Dissolved Chloride (Cl-) | 2025/08/14 | | NC | % | 80 - 120 |
| 9989077 | EMT | Spiked Blank | Dissolved Chloride (Cl-) | 2025/08/14 | | 93 | % | 80 - 120 |
| 9989077 | EMT | Method Blank | Dissolved Chloride (Cl-) | 2025/08/14 | <1.0 | | mg/L | |
| 9989077 | EMT | RPD | Dissolved Chloride (Cl-) | 2025/08/14 | 0.33 | | % | 20 |
| 9989078 | EMT | Matrix Spike | Dissolved Sulphate (SO4) | 2025/08/14 | | 103 | % | 80 - 120 |
| 9989078 | EMT | Spiked Blank | Dissolved Sulphate (SO4) | 2025/08/14 | | 97 | % | 80 - 120 |
| 9989078 | EMT | Method Blank | Dissolved Sulphate (SO4) | 2025/08/14 | <2.0 | | mg/L | |
| 9989078 | EMT | RPD | Dissolved Sulphate (SO4) | 2025/08/14 | 2.0 | | % | 20 |
| 9989079 | EMT | Matrix Spike | Reactive Silica (SiO2) | 2025/08/14 | | 90 | % | 80 - 120 |
| 9989079 | EMT | Spiked Blank | Reactive Silica (SiO2) | 2025/08/14 | | 93 | % | 80 - 120 |
| 9989079 | EMT | Method Blank | Reactive Silica (SiO2) | 2025/08/14 | <0.50 | | mg/L | |
| 9989079 | EMT | RPD | Reactive Silica (SiO2) | 2025/08/14 | 2.0 | | % | 20 |
| 9989080 | EMT | Spiked Blank | Colour | 2025/08/14 | | 115 | % | 80 - 120 |
| 9989080 | EMT | Method Blank | Colour | 2025/08/14 | <5.0 | | TCU | |
| 9989080 | EMT | RPD | Colour | 2025/08/14 | NC | | % | 20 |
| 9989081 | MCN | Matrix Spike | Orthophosphate (P) | 2025/08/14 | | 91 | % | 80 - 120 |
| 9989081 | MCN | Spiked Blank | Orthophosphate (P) | 2025/08/14 | | 94 | % | 80 - 120 |
| 9989081 | MCN | Method Blank | Orthophosphate (P) | 2025/08/14 | <0.010 | | mg/L | |
| 9989081 | MCN | RPD | Orthophosphate (P) | 2025/08/14 | 4.5 | | % | 20 |
| 9989082 | EMT | Matrix Spike | Nitrate + Nitrite (N) | 2025/08/14 | | 98 | % | 80 - 120 |
| 9989082 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2025/08/14 | | 99 | % | 80 - 120 |
| 9989082 | EMT | Method Blank | Nitrate + Nitrite (N) | 2025/08/14 | <0.050 | | mg/L | |
| 9989082 | EMT | RPD | Nitrate + Nitrite (N) | 2025/08/14 | 6.7 | | % | 20 |
| 9989083 | MCN | Matrix Spike | Nitrite (N) | 2025/08/14 | | 103 | % | 80 - 120 |
| 9989083 | MCN | Spiked Blank | Nitrite (N) | 2025/08/14 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9989083 | MCN | Method Blank | Nitrite (N) | 2025/08/14 | <0.010 | | mg/L | |
| 9989083 | MCN | RPD | Nitrite (N) | 2025/08/14 | 1.2 | | % | 20 |
| 9989203 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/08/14 | | 100 | % | 80 - 120 |
| 9989203 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/08/14 | | 97 | % | 80 - 120 |
| 9989203 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/08/14 | <0.013 | | ug/L | |
| 9989203 | JEP | RPD | Dissolved Mercury (Hg) | 2025/08/14 | NC | | % | 20 |
| 9989238 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/08/14 | | 103 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/08/14 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/08/14 | | 102 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/08/14 | | 107 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/14 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/08/14 | | 104 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/08/14 | | 96 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/08/14 | | 105 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/08/14 | | 103 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/08/14 | | 101 | % | 80 - 120 |
| 9989238 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/08/14 | | 103 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/08/14 | | 97 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/08/14 | | 97 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/08/14 | | 96 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/08/14 | | 101 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/08/14 | | 98 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/08/14 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Magnesium (Mg) | 2025/08/14 | | 102 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/14 | | 104 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/08/14 | | 97 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/08/14 | | 102 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/08/14 | | 96 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/08/14 | | 96 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/08/14 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/08/14 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/08/14 | | 103 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/08/14 | | 103 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/08/14 | | 99 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/08/14 | | 99 | % | 80 - 120 |
| 9989238 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/08/14 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/08/14 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/08/14 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/08/14 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/08/14 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/08/14 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/08/14 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/08/14 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/08/14 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/08/14 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/08/14 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/08/14 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/08/14 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/08/14 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/08/14 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/08/14 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/08/14 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/08/14 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/08/14 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/08/14 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/08/14 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/08/14 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/08/14 | <5.0 | | ug/L | |
| 9989238 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/08/14 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Bismuth (Bi) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/08/14 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/08/14 | NC | | % | 20 |
| 9989581 | KMC | QC Standard | Turbidity | 2025/08/15 | | 99 | % | 80 - 120 |
| 9989581 | KMC | Spiked Blank | Turbidity | 2025/08/15 | | 101 | % | 80 - 120 |
| 9989581 | KMC | Method Blank | Turbidity | 2025/08/15 | <0.10 | | NTU | |
| 9989581 | KMC | RPD | Turbidity | 2025/08/15 | 6.9 | | % | 20 |
| 9991841 | IH0 | Method Blank | Carbon Dioxide | 2025/08/18 | <0.6 | | L/m3 | |
| 9991841 | IH0 | RPD [ATVO78-13] | Carbon Dioxide | 2025/08/18 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C596429
Report Date: 2025/08/19

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: CM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Accounting Department

PROJECT: 24-10333

AGAT WORK ORDER: 25K335602

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Aug 28, 2025

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K335602

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Accounting Department

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-08-21

DATE REPORTED: 2025-08-28

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-08-20 13:39 | 2025-08-20 12:55 | 2025-08-20 12:10 |
| Parameter | Unit | G / S | RDL | | 6985473 | 6985474 | 6985475 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 980 | 1414 | 649 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 166 | 6 | 32 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 9.80 | 14.1 | 6.49 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 1.66 | 0.06 | 0.32 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle



Results relate only to the items tested. Results apply to samples as received.

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K335602

PROJECT: 24-10333

ATTENTION TO: Accounting Department

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

Unit 1 • 57 Old Pennywell Rd
St John's, NL
A1E 6A8
P: 709.747.8573

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## Chain of Custody Record

**Laboratory Use Only**

Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 7.3, 7.9, 7.4
Hold Time:
AGAT Job Number: 25-533502
Notes:

### Report Information

Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

### Report Information (Please print):

1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

### Report Format

☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

### Turnaround Time Required (TAT)

**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

### Invoice To

Same Yes ☐ / No ☐

Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

### Regulatory Requirements (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube

☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-3 | 2025-08-20 1339 | water | 1 | |
| WQM-4 | 2025-08-20 1255 | water | 1 | |
| WQM-5 | 2025-08-20 1210 | water | 1 | |

| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | | |

| Samples Relinquished By (Print Name): | Date/Time | Samples Received By (Print Name): | Date/Time |
|---|---|---|---|
| K. SQUIRES | 21 Aug 25 | Katrina Al-Deir | Aug 21, 2025 |
| **Samples Relinquished By (Sign):** | **Date/Time** | **Samples Received By (Sign):** | **Date/Time** |
| K. Squires | | | 8:56 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page ☐ of ☐
No:



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Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/09/05**
Report #: R8606746
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5A3584**
**Received: 2025/08/22, 09:29**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/08/28 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/08/27 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/08/28 | N/A | Auto Calc. |
| Chloride | 2 | N/A | 2025/08/27 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Chloride | 1 | N/A | 2025/08/28 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/09/03 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 2 | N/A | 2025/08/28 | ATL SOP 00020 | SM 24 2120C m |
| Colour | 1 | N/A | 2025/08/29 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/08/27 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/08/27 | 2025/08/28 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/08/27 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/08/25 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/08/28 | ATL SOP 00048 | Auto Calc |
| Mercury - Total (CVAA,LL) | 3 | 2025/08/26 | 2025/08/26 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Lab Filtered (2) | 3 | N/A | 2025/08/28 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/08/27 | 2025/08/27 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/09/02 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/09/02 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/08/28 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 2 | N/A | 2025/08/28 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrate + Nitrite | 1 | N/A | 2025/08/29 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 2 | N/A | 2025/08/27 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrite | 1 | N/A | 2025/08/28 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 2 | N/A | 2025/08/29 | ATL SOP 00018 | ASTM D3867-16 |
| Nitrogen - Nitrate (as N) | 1 | N/A | 2025/09/02 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/08/27 | 2025/08/28 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (3) | 3 | N/A | 2025/08/27 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 2 | N/A | 2025/08/27 | ATL SOP 00021 | SM 24 4500-P E m |
| Phosphorus - ortho | 1 | N/A | 2025/08/29 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/09/02 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/09/02 | ATL SOP 00049 | Auto Calc. |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/09/05**
Report #: R8606746
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5A3584**
**Received: 2025/08/22, 09:29**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Reactive Silica | 2 | N/A | 2025/08/27 | ATL SOP 00022 | EPA 366.0 m |
| Reactive Silica | 1 | N/A | 2025/08/28 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 2 | N/A | 2025/08/27 | ATL SOP 00023 | ASTM D516-16 m |
| Sulphate | 1 | N/A | 2025/08/28 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/09/02 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (4) | 2 | N/A | 2025/08/26 | ATL SOP 00203 | SM 24 5310B m |
| Organic carbon - Total (TOC) (4) | 1 | N/A | 2025/08/28 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/08/29 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/08/26 | 2025/08/27 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 2 | N/A | 2025/08/28 | ATL SOP 00011 | EPA 180.1 R2 m |
| Turbidity | 1 | N/A | 2025/08/29 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/08/27 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/08/27 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.



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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/09/05**
Report #: R8606746
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5A3584**

**Received: 2025/08/22, 09:29**

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) Sample filtered in laboratory prior to analysis for dissolved metals.

(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AUJE25 | | | AUJE25 | | | AUJE26 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | | | 2025/08/20 13:39 | | | 2025/08/20 12:55 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | 1.30 | N/A | 9996326 | | | | 0.620 | N/A | 9996326 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 50 | 1.0 | 9996322 | | | | 26 | 1.0 | 9996322 |
| Calculated TDS | mg/L | 75 | 1.0 | 9996331 | | | | 35 | 1.0 | 9996331 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9996322 | | | | <1.0 | 1.0 | 9996322 |
| Cation Sum | me/L | 1.43 | N/A | 9996326 | | | | 0.730 | N/A | 9996326 |
| Hardness (CaCO3) | mg/L | 59 | 1.0 | 9996324 | | | | 29 | 1.0 | 9996324 |
| Ion Balance (% Difference) | % | 4.76 | N/A | 9996325 | | | | 8.15 | N/A | 9996325 |
| Langelier Index (@ 20C) | N/A | -0.612 | | 9996329 | | | | -1.36 | | 9996329 |
| Langelier Index (@ 4C) | N/A | -0.863 | | 9996330 | | | | -1.62 | | 9996330 |
| Nitrate (N) | mg/L | 0.23 | 0.050 | 9996327 | | | | <0.050 | 0.050 | 9996327 |
| Saturation pH (@ 20C) | N/A | 8.37 | | 9996329 | | | | 8.94 | | 9996329 |
| Saturation pH (@ 4C) | N/A | 8.62 | | 9996330 | | | | 9.19 | | 9996330 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 50 | 2.0 | 9998201 | | | | 26 | 2.0 | 9998193 |
| Dissolved Chloride (Cl-) | mg/L | 6.9 | 1.0 | 9998640 | | | | 3.8 | 1.0 | 9998640 |
| Colour | TCU | 30 | 5.0 | 9999020 | | | | 30 | 5.0 | 9999020 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9998207 | | | | <0.10 | 0.10 | 9998196 |
| Nitrate + Nitrite (N) | mg/L | 0.23 | 0.050 | 9999017 | | | | <0.050 | 0.050 | 9999017 |
| Nitrite (N) | mg/L | <0.010 | 0.010 | 9999018 | | | | <0.010 | 0.010 | 9999018 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | 0.050 | 9999241 | | | | <0.050 | 0.050 | 9999241 |
| Total Organic Carbon (C) | mg/L | 3.9 | 0.50 | 9997294 | 4.0 | 0.50 | 9997294 | 5.9 | 0.50 | 9999287 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | 9999019 | | | | 0.013 | 0.010 | 9999019 |
| pH | pH | 7.75 | | 9998197 | | | | 7.58 | | 9998190 |
| Reactive Silica (SiO2) | mg/L | 5.5 | 0.50 | 9999021 | | | | 1.9 | 0.50 | 9999021 |
| Total Suspended Solids | mg/L | 3.2 | 1.0 | 9997206 | | | | 6.6 | 1.0 | 9997206 |
| Dissolved Sulphate (SO4) | mg/L | 4.6 | 2.0 | 9999022 | | | | <2.0 | 2.0 | 9999022 |
| Turbidity | NTU | 2.1 | 0.10 | 9999639 | | | | 1.1 | 0.10 | 9999535 |
| Conductivity | uS/cm | 140 | 1.0 | 9998200 | | | | 70 | 1.0 | 9998192 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AUJE27 | | | AUJE27 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 12:10 | | | 2025/08/20 12:10 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Anion Sum | me/L | 0.880 | N/A | 9996326 | | | |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 37 | 1.0 | 9996322 | | | |
| Calculated TDS | mg/L | 50 | 1.0 | 9996331 | | | |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | 1.0 | 9996322 | | | |
| Cation Sum | me/L | 1.02 | N/A | 9996326 | | | |
| Hardness (CaCO3) | mg/L | 41 | 1.0 | 9996324 | | | |
| Ion Balance (% Difference) | % | 7.37 | N/A | 9996325 | | | |
| Langelier Index (@ 20C) | N/A | -1.15 | | 9996329 | | | |
| Langelier Index (@ 4C) | N/A | -1.41 | | 9996330 | | | |
| Nitrate (N) | mg/L | <0.050 | 0.050 | 9996327 | | | |
| Saturation pH (@ 20C) | N/A | 8.63 | | 9996329 | | | |
| Saturation pH (@ 4C) | N/A | 8.88 | | 9996330 | | | |
| **Inorganics** | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 37 | 2.0 | 9998201 | | | |
| Dissolved Chloride (Cl-) | mg/L | 4.8 | 1.0 | 9999500 | | | |
| Colour | TCU | 23 | 5.0 | A000222 | | | |
| Dissolved Fluoride (F-) | mg/L | <0.10 | 0.10 | 9998207 | | | |
| Nitrate + Nitrite (N) | mg/L | <0.050 | 0.050 | A000224 | | | |
| Nitrite (N) | mg/L | <0.010 | 0.010 | A000226 | | | |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.10 | 0.050 | 9999241 | | | |
| Total Organic Carbon (C) | mg/L | 5.4 | 0.50 | 9997292 | 5.3 | 0.50 | 9997292 |
| Orthophosphate (P) | mg/L | <0.010 | 0.010 | A000223 | | | |
| pH | pH | 7.48 | | 9998197 | | | |
| Reactive Silica (SiO2) | mg/L | 3.4 | 0.50 | A000220 | | | |
| Total Suspended Solids | mg/L | 15 | 1.0 | 9997206 | | | |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | 2.0 | A000217 | | | |
| Turbidity | NTU | 0.70 | 0.10 | 9999535 | | | |
| Conductivity | uS/cm | 97 | 1.0 | 9998200 | | | |

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Total Mercury (Hg) | ug/L | <0.013 | <0.013 | <0.013 | 0.013 | 9996703 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 9.6 | 9.2 | 7.9 | 5.0 | 9999164 |
| Total Aluminum (Al) | ug/L | 20 | 12 | 16 | 5.0 | 9998120 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9999164 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9998120 |
| Dissolved Arsenic (As) | ug/L | 1.5 | <1.0 | 1.0 | 1.0 | 9999164 |
| Total Arsenic (As) | ug/L | 1.5 | <1.0 | 1.1 | 1.0 | 9998120 |
| Dissolved Barium (Ba) | ug/L | 14 | 6.4 | 17 | 1.0 | 9999164 |
| Total Barium (Ba) | ug/L | 13 | 5.9 | 17 | 1.0 | 9998120 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9999164 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9998120 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9999164 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | 50 | 9998120 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9999164 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998120 |
| Dissolved Calcium (Ca) | ug/L | 18000 | 8800 | 13000 | 100 | 9999164 |
| Total Calcium (Ca) | ug/L | 17000 | 8200 | 12000 | 100 | 9998120 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9999164 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | 9998120 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9999164 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | 9998120 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9999164 |
| Total Copper (Cu) | ug/L | <0.50 | 22 | <0.50 | 0.50 | 9998120 |
| Dissolved Iron (Fe) | ug/L | 180 | <50 | <50 | 50 | 9999164 |
| Total Iron (Fe) | ug/L | 240 | 63 | 91 | 50 | 9998120 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9999164 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9998120 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Magnesium (Mg) | ug/L | 3200 | 1600 | 2100 | 100 | 9999164 |
| Total Magnesium (Mg) | ug/L | 3100 | 1600 | 2000 | 100 | 9998120 |
| Dissolved Manganese (Mn) | ug/L | 3.6 | 2.1 | 4.6 | 2.0 | 9999164 |

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QC Batch = Quality Control Batch



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 18 | 14 | 20 | 2.0 | 9998120 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Nickel (Ni) | ug/L | <2.0 | 3.7 | <2.0 | 2.0 | 9998120 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9999164 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | 9998120 |
| Dissolved Potassium (K) | ug/L | 460 | 300 | 290 | 100 | 9999164 |
| Total Potassium (K) | ug/L | 460 | 240 | 280 | 100 | 9998120 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9999164 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | 9998120 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9999164 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9998120 |
| Dissolved Sodium (Na) | ug/L | 5200 | 3500 | 4400 | 100 | 9999164 |
| Total Sodium (Na) | ug/L | 4900 | 3300 | 4000 | 100 | 9998120 |
| Dissolved Strontium (Sr) | ug/L | 64 | 31 | 45 | 2.0 | 9999164 |
| Total Strontium (Sr) | ug/L | 59 | 29 | 42 | 2.0 | 9998120 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9999164 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9998120 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9999164 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | 9998120 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9999164 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | 9998120 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9999164 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | 9998120 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.6 | 0.9 | <0.6 | 0.6 | A002566 |
| Calculated Carbon Dioxide | mg/L | 3 | 2 | <1 | 1 | 9996424 |

RDL = Reportable Detection Limit
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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9998320 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | 9998320 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | 9996426 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | 9998320 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | 9998320 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 94 | 89 | 94 | | 9998320 |
| D14-Terphenyl | % | 81 | 79 | 83 | | 9998320 |
| D8-Acenaphthylene | % | 77 | 74 | 77 | | 9998320 |

RDL = Reportable Detection Limit
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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-3 Lab-Dup | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9998182 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | <0.20 | 0.20 | 9998182 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9998182 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9998182 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | <3.0 | 3.0 | 9998182 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9998182 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AUJE25 | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/08/20 13:39 | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| **COC Number** | | N/A | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-3 Lab-Dup** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | <8.0 | 8.0 | 9998182 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 9998182 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 9998182 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 9998182 |
| **Surrogate Recovery (%)** | | | | | | | |
| 4-Bromofluorobenzene | % | 106 | 96 | 98 | 98 | | 9998182 |
| D4-1,2-Dichloroethane | % | 98 | 100 | 106 | 103 | | 9998182 |
| D8-Toluene | % | 92 | 101 | 99 | 99 | | 9998182 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AUJE25 | AUJE26 | AUJE27 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/08/20 13:39 | 2025/08/20 12:55 | 2025/08/20 12:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9997457 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9997457 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 9997457 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 9997457 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9997457 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9998669 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 9998669 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9998669 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 9996427 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 9998669 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 9998669 |
| **Surrogate Recovery (%)** | | | | | | |
| Isobutylbenzene - Extractable | % | 104 | 102 | 105 | | 9998669 |
| n-Dotriacontane - Extractable | % | 107 | 105 | 109 | | 9998669 |
| Isobutylbenzene - Volatile | % | 98 | 98 | 99 | | 9997457 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 3.1°C |

Remove disolved mercury from the requested analysis per client communication. MIB 2025/08/26

Sample AUJE26 [WQM-4] : ortho-Phosphate > Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent. RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AUJE27 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9996703 | SPY | Matrix Spike | Total Mercury (Hg) | 2025/08/26 | | 103 | % | 80 - 120 |
| 9996703 | SPY | Spiked Blank | Total Mercury (Hg) | 2025/08/26 | | 100 | % | 80 - 120 |
| 9996703 | SPY | Method Blank | Total Mercury (Hg) | 2025/08/26 | <0.013 | | ug/L | |
| 9996703 | SPY | RPD | Total Mercury (Hg) | 2025/08/26 | NC | | % | 20 |
| 9997206 | ISM | QC Standard | Total Suspended Solids | 2025/08/27 | | 100 | % | 80 - 120 |
| 9997206 | ISM | Method Blank | Total Suspended Solids | 2025/08/27 | <1.0 | | mg/L | |
| 9997206 | ISM | RPD | Total Suspended Solids | 2025/08/27 | 6.1 | | % | 20 |
| 9997292 | S6S | Matrix Spike [AUJE27-03] | Total Organic Carbon (C) | 2025/08/26 | | 102 | % | 85 - 115 |
| 9997292 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/08/26 | | 102 | % | 80 - 120 |
| 9997292 | S6S | Method Blank | Total Organic Carbon (C) | 2025/08/26 | <0.50 | | mg/L | |
| 9997292 | S6S | RPD [AUJE27-03] | Total Organic Carbon (C) | 2025/08/26 | 1.3 | | % | 15 |
| 9997294 | S6S | Matrix Spike [AUJE25-03] | Total Organic Carbon (C) | 2025/08/26 | | 105 | % | 85 - 115 |
| 9997294 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/08/26 | | 102 | % | 80 - 120 |
| 9997294 | S6S | Method Blank | Total Organic Carbon (C) | 2025/08/26 | <0.50 | | mg/L | |
| 9997294 | S6S | RPD [AUJE25-03] | Total Organic Carbon (C) | 2025/08/26 | 2.5 | | % | 15 |
| 9997457 | A1M | Matrix Spike | Isobutylbenzene - Volatile | 2025/08/27 | | 95 | % | 70 - 130 |
| | | | Benzene | 2025/08/27 | | NC | % | 70 - 130 |
| | | | Toluene | 2025/08/27 | | NC | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/27 | | NC | % | 70 - 130 |
| | | | Total Xylenes | 2025/08/27 | | 76 | % | 70 - 130 |
| 9997457 | A1M | Spiked Blank | Isobutylbenzene - Volatile | 2025/08/27 | | 101 | % | 70 - 130 |
| | | | Benzene | 2025/08/27 | | 97 | % | 70 - 130 |
| | | | Toluene | 2025/08/27 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/27 | | 102 | % | 70 - 130 |
| | | | Total Xylenes | 2025/08/27 | | 107 | % | 70 - 130 |
| 9997457 | A1M | Method Blank | Isobutylbenzene - Volatile | 2025/08/27 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/08/27 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/08/27 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/08/27 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/08/27 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/08/27 | <0.090 | | mg/L | |
| 9997457 | A1M | RPD | Benzene | 2025/08/27 | 0.64 | | % | 40 |
| | | | Toluene | 2025/08/27 | 1.4 | | % | 40 |
| | | | Ethylbenzene | 2025/08/27 | 0.92 | | % | 40 |
| | | | Total Xylenes | 2025/08/27 | 2.3 | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/08/27 | 6.8 | | % | 40 |
| 9998120 | MTZ | Matrix Spike | Total Aluminum (Al) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/08/27 | | 106 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/08/27 | | 105 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/08/27 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/08/27 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/08/27 | | 106 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/08/27 | | 102 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/08/27 | | 107 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Manganese (Mn) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/08/27 | | 110 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/08/27 | | 102 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/08/27 | | 107 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/08/27 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/08/27 | | 102 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/08/27 | | 109 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/08/27 | | 106 | % | 80 - 120 |
| 9998120 | MTZ | Spiked Blank | Total Aluminum (Al) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/08/27 | | 96 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/08/27 | | 96 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/08/27 | | 106 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/08/27 | | 108 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/08/27 | | 99 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/08/27 | | 108 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/08/27 | | 102 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/08/27 | | 108 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/08/27 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/08/27 | | 101 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/08/27 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/08/27 | | 100 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/08/27 | | 106 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/08/27 | | 110 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/08/27 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/08/27 | | 109 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/08/27 | | 105 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/08/27 | | 101 | % | 80 - 120 |
| 9998120 | MTZ | Method Blank | Total Aluminum (Al) | 2025/08/27 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/08/27 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/08/27 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/08/27 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/08/27 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/08/27 | <2.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Boron (B) | 2025/08/27 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/08/27 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/08/27 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/08/27 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/08/27 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/08/27 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/08/27 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/08/27 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/08/27 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/08/27 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/08/27 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/08/27 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/08/27 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/08/27 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/08/27 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/08/27 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/08/27 | <5.0 | | ug/L | |
| 9998120 | MTZ | RPD | Total Aluminum (Al) | 2025/08/27 | 1.9 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/08/27 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/08/27 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/08/27 | 1.5 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/08/27 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/08/27 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/08/27 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/08/27 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/08/27 | 2.0 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/08/27 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/08/27 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/08/27 | 2.4 | | % | 20 |
| | | | Total Iron (Fe) | 2025/08/27 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/08/27 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/08/27 | 1.6 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/08/27 | 4.2 | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/08/27 | NC | | % | 20 |
| | | | Total Nickel (Ni) | 2025/08/27 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/08/27 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/08/27 | 1.1 | | % | 20 |
| | | | Total Selenium (Se) | 2025/08/27 | NC | | % | 20 |
| | | | Total Silver (Ag) | 2025/08/27 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/08/27 | 1.3 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/08/27 | 1.6 | | % | 20 |
| | | | Total Thallium (Tl) | 2025/08/27 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/08/27 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/08/27 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Uranium (U) | 2025/08/27 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/08/27 | NC | | % | 20 |
| | | | Total Zinc (Zn) | 2025/08/27 | NC | | % | 20 |
| 9998182 | ASL | Matrix Spike [AUJE26-12] | 4-Bromofluorobenzene | 2025/08/27 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/27 | | 109 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/27 | | 95 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/27 | | 97 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/08/27 | | 94 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/08/27 | | 100 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/08/27 | | 99 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/27 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/08/27 | | 105 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/08/27 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/08/27 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/08/27 | | 93 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/08/27 | | 96 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/08/27 | | 95 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/08/27 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/08/27 | | 86 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/08/27 | | 91 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/08/27 | | 92 | % | 70 - 130 |
| | | | Benzene | 2025/08/27 | | 93 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/08/27 | | 93 | % | 70 - 130 |
| | | | Bromoform | 2025/08/27 | | 107 | % | 70 - 130 |
| | | | Bromomethane | 2025/08/27 | | 92 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/08/27 | | 102 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/08/27 | | 93 | % | 70 - 130 |
| | | | Chloroethane | 2025/08/27 | | 90 | % | 60 - 140 |
| | | | Chloroform | 2025/08/27 | | 95 | % | 70 - 130 |
| | | | Chloromethane | 2025/08/27 | | 96 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/08/27 | | 98 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/27 | | 91 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/27 | | 90 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/27 | | 94 | % | 70 - 130 |
| | | | Styrene | 2025/08/27 | | 92 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/08/27 | | 90 | % | 70 - 130 |
| | | | Toluene | 2025/08/27 | | 90 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/08/27 | | 87 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/27 | | 95 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/08/27 | | 88 | % | 60 - 140 |
| | | | o-Xylene | 2025/08/27 | | 94 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/08/27 | | 91 | % | 70 - 130 |
| 9998182 | ASL | Spiked Blank | 4-Bromofluorobenzene | 2025/08/28 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/28 | | 100 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/28 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/08/28 | | 89 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/08/28 | | 90 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/08/28 | | 94 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/08/28 | | 91 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,2-Dichloroethane | 2025/08/28 | | 91 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/08/28 | | 87 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/08/28 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/08/28 | | 89 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/08/28 | | 88 | % | 70 - 130 |
| | | | Benzene | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/08/28 | | 89 | % | 70 - 130 |
| | | | Bromoform | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | Bromomethane | 2025/08/28 | | 92 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/08/28 | | 90 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | Chloroethane | 2025/08/28 | | 89 | % | 60 - 140 |
| | | | Chloroform | 2025/08/28 | | 87 | % | 70 - 130 |
| | | | Chloromethane | 2025/08/28 | | 99 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/08/28 | | 89 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/28 | | 86 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/28 | | 87 | % | 70 - 130 |
| | | | Styrene | 2025/08/28 | | 93 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/08/28 | | 83 | % | 70 - 130 |
| | | | Toluene | 2025/08/28 | | 89 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/08/28 | | 83 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/28 | | 85 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/08/28 | | 88 | % | 60 - 140 |
| | | | o-Xylene | 2025/08/28 | | 96 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/08/28 | | 92 | % | 70 - 130 |
| 9998182 | ASL | Method Blank | 4-Bromofluorobenzene | 2025/08/27 | | 87 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/08/27 | | 99 | % | 70 - 130 |
| | | | D8-Toluene | 2025/08/27 | | 120 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/08/27 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/08/27 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/08/27 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/08/27 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/27 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/08/27 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/08/27 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/08/27 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/08/27 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/08/27 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/08/27 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/08/27 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/08/27 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/08/27 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Benzene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/08/27 | <1.0 | | ug/L | |
| | | | Bromoform | 2025/08/27 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/08/27 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/08/27 | <0.50 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Chlorobenzene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/08/27 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/08/27 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/08/27 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/08/27 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/27 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/27 | <2.0 | | ug/L | |
| | | | Styrene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Toluene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/08/27 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/27 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/08/27 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/08/27 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/08/27 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/08/27 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/08/27 | <1.0 | | ug/L | |
| 9998182 | ASL | RPD [AUJE25-12] | 1,1-Dichloroethane | 2025/08/27 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/08/27 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/08/27 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/08/27 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/08/27 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/08/27 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/08/27 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/08/27 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/08/27 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/08/27 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/08/27 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/08/27 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/08/27 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/08/27 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/08/27 | NC | | % | 40 |
| | | | Benzene | 2025/08/27 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/08/27 | NC | | % | 40 |
| | | | Bromoform | 2025/08/27 | NC | | % | 40 |
| | | | Bromomethane | 2025/08/27 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/08/27 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/08/27 | NC | | % | 40 |
| | | | Chloroethane | 2025/08/27 | NC | | % | 40 |
| | | | Chloroform | 2025/08/27 | NC | | % | 40 |
| | | | Chloromethane | 2025/08/27 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/08/27 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/08/27 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/08/27 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/08/27 | NC | | % | 40 |
| | | | Styrene | 2025/08/27 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/08/27 | NC | | % | 40 |
| | | | Toluene | 2025/08/27 | NC | | % | 40 |
| | | | Trichloroethylene | 2025/08/27 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/08/27 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/08/27 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | o-Xylene | 2025/08/27 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/08/27 | NC | | % | 40 |
| | | | Total Xylenes | 2025/08/27 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/08/27 | NC | | % | 40 |
| 9998190 | J1A | Spiked Blank | pH | 2025/08/27 | | 100 | % | 97 - 103 |
| 9998190 | J1A | RPD | pH | 2025/08/27 | 1.4 | | % | N/A |
| 9998192 | J1A | Spiked Blank | Conductivity | 2025/08/27 | | 101 | % | 80 - 120 |
| 9998192 | J1A | Method Blank | Conductivity | 2025/08/27 | <1.0 | | uS/cm | |
| 9998192 | J1A | RPD | Conductivity | 2025/08/27 | 0.50 | | % | 10 |
| 9998193 | J1A | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/08/27 | | 94 | % | 80 - 120 |
| 9998193 | J1A | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/08/27 | <2.0 | | mg/L | |
| 9998193 | J1A | RPD | Total Alkalinity (Total as CaCO3) | 2025/08/27 | 4.3 | | % | 20 |
| 9998196 | J1A | Matrix Spike | Dissolved Fluoride (F-) | 2025/08/27 | | 91 | % | 80 - 120 |
| 9998196 | J1A | Spiked Blank | Dissolved Fluoride (F-) | 2025/08/27 | | 97 | % | 80 - 120 |
| 9998196 | J1A | Method Blank | Dissolved Fluoride (F-) | 2025/08/27 | <0.10 | | mg/L | |
| 9998196 | J1A | RPD | Dissolved Fluoride (F-) | 2025/08/27 | NC | | % | 20 |
| 9998197 | J1A | Spiked Blank | pH | 2025/08/27 | | 100 | % | 97 - 103 |
| 9998197 | J1A | RPD | pH | 2025/08/27 | 1.3 | | % | N/A |
| 9998200 | J1A | Spiked Blank | Conductivity | 2025/08/27 | | 100 | % | 80 - 120 |
| 9998200 | J1A | Method Blank | Conductivity | 2025/08/27 | <1.0 | | uS/cm | |
| 9998200 | J1A | RPD | Conductivity | 2025/08/27 | 0.61 | | % | 10 |
| 9998201 | J1A | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/08/27 | | 94 | % | 80 - 120 |
| 9998201 | J1A | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/08/27 | <2.0 | | mg/L | |
| 9998201 | J1A | RPD | Total Alkalinity (Total as CaCO3) | 2025/08/27 | 3.6 | | % | 20 |
| 9998207 | J1A | Matrix Spike | Dissolved Fluoride (F-) | 2025/08/27 | | 89 | % | 80 - 120 |
| 9998207 | J1A | Spiked Blank | Dissolved Fluoride (F-) | 2025/08/27 | | 95 | % | 80 - 120 |
| 9998207 | J1A | Method Blank | Dissolved Fluoride (F-) | 2025/08/27 | <0.10 | | mg/L | |
| 9998207 | J1A | RPD | Dissolved Fluoride (F-) | 2025/08/27 | NC | | % | 20 |
| 9998320 | EPA | Matrix Spike | D10-Anthracene | 2025/08/28 | | 95 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/08/28 | | 86 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/28 | | 80 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/28 | | 82 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/08/28 | | 90 | % | 50 - 130 |
| | | | Acenaphthene | 2025/08/28 | | 86 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/08/28 | | 92 | % | 50 - 130 |
| | | | Anthracene | 2025/08/28 | | 95 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/08/28 | | 89 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/08/28 | | 88 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/08/28 | | 90 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/08/28 | | 83 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/08/28 | | 96 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/08/28 | | 88 | % | 50 - 130 |
| | | | Chrysene | 2025/08/28 | | 94 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/08/28 | | 85 | % | 50 - 130 |
| | | | Fluoranthene | 2025/08/28 | | 91 | % | 50 - 130 |
| | | | Fluorene | 2025/08/28 | | 88 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/28 | | 82 | % | 50 - 130 |
| | | | Naphthalene | 2025/08/28 | | 84 | % | 50 - 130 |
| | | | Perylene | 2025/08/28 | | 86 | % | 50 - 130 |
| | | | Phenanthrene | 2025/08/28 | | 91 | % | 50 - 130 |
| | | | Pyrene | 2025/08/28 | | 89 | % | 50 - 130 |
| 9998320 | EPA | Spiked Blank | D10-Anthracene | 2025/08/27 | | 109 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | D14-Terphenyl | 2025/08/27 | | 97 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/27 | | 93 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/27 | | 95 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/08/27 | | 103 | % | 50 - 130 |
| | | | Acenaphthene | 2025/08/27 | | 98 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/08/27 | | 104 | % | 50 - 130 |
| | | | Anthracene | 2025/08/27 | | 107 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/08/27 | | 93 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/08/27 | | 92 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/08/27 | | 94 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/08/27 | | 87 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/08/27 | | 101 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/08/27 | | 92 | % | 50 - 130 |
| | | | Chrysene | 2025/08/27 | | 102 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/08/27 | | 87 | % | 50 - 130 |
| | | | Fluoranthene | 2025/08/27 | | 98 | % | 50 - 130 |
| | | | Fluorene | 2025/08/27 | | 99 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/27 | | 85 | % | 50 - 130 |
| | | | Naphthalene | 2025/08/27 | | 97 | % | 50 - 130 |
| | | | Perylene | 2025/08/27 | | 100 | % | 50 - 130 |
| | | | Phenanthrene | 2025/08/27 | | 104 | % | 50 - 130 |
| | | | Pyrene | 2025/08/27 | | 98 | % | 50 - 130 |
| 9998320 | EPA | Method Blank | D10-Anthracene | 2025/08/27 | | 112 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/08/27 | | 97 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/08/27 | | 92 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/08/27 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/08/27 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/08/27 | <0.20 | | ug/L | |
| | | | Perylene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/08/27 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/08/27 | <0.010 | | ug/L | |
| 9998320 | EPA | RPD | 1-Methylnaphthalene | 2025/08/27 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/08/27 | NC | | % | 40 |
| | | | Acenaphthene | 2025/08/27 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/08/27 | NC | | % | 40 |
| | | | Anthracene | 2025/08/27 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/08/27 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/08/27 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzo(b)fluoranthene | 2025/08/27 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/08/27 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/08/27 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/08/27 | NC | | % | 40 |
| | | | Chrysene | 2025/08/27 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/08/27 | NC | | % | 40 |
| | | | Fluoranthene | 2025/08/27 | NC | | % | 40 |
| | | | Fluorene | 2025/08/27 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/08/27 | NC | | % | 40 |
| | | | Naphthalene | 2025/08/27 | NC | | % | 40 |
| | | | Perylene | 2025/08/27 | NC | | % | 40 |
| | | | Phenanthrene | 2025/08/27 | 4.7 | | % | 40 |
| | | | Pyrene | 2025/08/27 | NC | | % | 40 |
| 9998640 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/08/27 | | NC | % | 80 - 120 |
| 9998640 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/08/27 | | 96 | % | 80 - 120 |
| 9998640 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/08/27 | <1.0 | | mg/L | |
| 9998640 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/08/27 | 0.45 | | % | 20 |
| 9998669 | ABJ | Matrix Spike | Isobutylbenzene - Extractable | 2025/08/28 | | 106 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/28 | | 117 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/28 | | 99 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/08/28 | | 100 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/28 | | 95 | % | 70 - 130 |
| 9998669 | ABJ | Spiked Blank | Isobutylbenzene - Extractable | 2025/08/28 | | 98 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/28 | | 112 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/28 | | 99 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/08/28 | | 101 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/28 | | 98 | % | 70 - 130 |
| 9998669 | ABJ | Method Blank | Isobutylbenzene - Extractable | 2025/08/28 | | 75 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/08/28 | | 104 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/08/28 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/08/28 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/08/28 | <0.090 | | mg/L | |
| 9998669 | ABJ | RPD | >C10-C16 Hydrocarbons | 2025/08/28 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/08/28 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/08/28 | NC | | % | 40 |
| 9999017 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/08/28 | | 102 | % | 80 - 120 |
| 9999017 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/08/28 | | 108 | % | 80 - 120 |
| 9999017 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/08/28 | <0.050 | | mg/L | |
| 9999017 | MCN | RPD | Nitrate + Nitrite (N) | 2025/08/28 | 0 | | % | 20 |
| 9999018 | MCN | Matrix Spike | Nitrite (N) | 2025/08/28 | | 43 (1) | % | 80 - 120 |
| 9999018 | MCN | Spiked Blank | Nitrite (N) | 2025/08/27 | | 103 | % | 80 - 120 |
| 9999018 | MCN | Method Blank | Nitrite (N) | 2025/08/27 | <0.010 | | mg/L | |
| 9999018 | MCN | RPD | Nitrite (N) | 2025/08/27 | NC | | % | 20 |
| 9999019 | MCN | Matrix Spike | Orthophosphate (P) | 2025/08/27 | | 95 | % | 80 - 120 |
| 9999019 | MCN | Spiked Blank | Orthophosphate (P) | 2025/08/27 | | 99 | % | 80 - 120 |
| 9999019 | MCN | Method Blank | Orthophosphate (P) | 2025/08/27 | <0.010 | | mg/L | |
| 9999019 | MCN | RPD | Orthophosphate (P) | 2025/08/27 | NC | | % | 20 |
| 9999020 | MCN | Spiked Blank | Colour | 2025/08/28 | | 111 | % | 80 - 120 |
| 9999020 | MCN | Method Blank | Colour | 2025/08/28 | <5.0 | | TCU | |
| 9999020 | MCN | RPD | Colour | 2025/08/28 | NC | | % | 20 |
| 9999021 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/08/27 | | NC | % | 80 - 120 |
| 9999021 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/08/27 | | 94 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| 9999021 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/08/27 | <0.50 | | mg/L | |
| 9999021 | MCN | RPD | Reactive Silica (SiO2) | 2025/08/27 | 0.43 | | % | 20 |
| 9999022 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/08/27 | | 103 | % | 80 - 120 |
| 9999022 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/08/27 | | 102 | % | 80 - 120 |
| 9999022 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/08/27 | <2.0 | | mg/L | |
| 9999022 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/08/27 | 0.65 | | % | 20 |
| 9999164 | MOA | Matrix Spike | Dissolved Aluminum (Al) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/08/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/08/28 | | 95 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/08/28 | | 91 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/08/28 | | 93 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/08/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/08/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/08/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/08/28 | | 96 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/08/28 | | 93 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/08/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/08/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/08/28 | | 97 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/08/28 | | 95 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/08/28 | | 93 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/08/28 | | 105 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/08/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/08/28 | | 98 | % | 80 - 120 |
| 9999164 | MOA | Spiked Blank | Dissolved Aluminum (Al) | 2025/08/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/08/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/08/28 | | 94 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/08/28 | | 90 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/08/28 | | 102 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/08/28 | | 107 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/08/28 | | 96 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Magnesium (Mg) | 2025/08/28 | | 105 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/08/28 | | 107 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/08/28 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/08/28 | | 99 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/08/28 | | 106 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/08/28 | | 101 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/08/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/08/28 | | 100 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/08/28 | | 104 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/08/28 | | 103 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/08/28 | | 103 | % | 80 - 120 |
| 9999164 | MOA | Method Blank | Dissolved Aluminum (Al) | 2025/08/28 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/08/28 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/08/28 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/08/28 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/08/28 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/08/28 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/08/28 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/08/28 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/08/28 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/08/28 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/08/28 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/08/28 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/08/28 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/08/28 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/08/28 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/08/28 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/08/28 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/08/28 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/08/28 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/08/28 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/08/28 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/08/28 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/08/28 | <5.0 | | ug/L | |
| 9999164 | MOA | RPD | Dissolved Aluminum (Al) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/08/28 | NC | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Bismuth (Bi) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/08/28 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/08/28 | NC | | % | 20 |
| 9999241 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/08/28 | | 92 | % | 80 - 120 |
| 9999241 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/08/28 | | 98 | % | 80 - 120 |
| 9999241 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/08/28 | <0.050 | | mg/L | |
| 9999241 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/08/28 | NC | | % | 20 |
| 9999287 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/08/28 | | 97 | % | 85 - 115 |
| 9999287 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/08/28 | | 104 | % | 80 - 120 |
| 9999287 | S6S | Method Blank | Total Organic Carbon (C) | 2025/08/28 | <0.50 | | mg/L | |
| 9999287 | S6S | RPD | Total Organic Carbon (C) | 2025/08/28 | 2.2 | | % | 15 |
| 9999500 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/08/28 | | 92 | % | 80 - 120 |
| 9999500 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/08/28 | | 91 | % | 80 - 120 |
| 9999500 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/08/28 | <1.0 | | mg/L | |
| 9999500 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/08/28 | NC | | % | 20 |
| 9999535 | J1A | QC Standard | Turbidity | 2025/08/28 | | 117 | % | 80 - 120 |
| 9999535 | J1A | Spiked Blank | Turbidity | 2025/08/28 | | 99 | % | 80 - 120 |
| 9999535 | J1A | Method Blank | Turbidity | 2025/08/28 | <0.10 | | NTU | |
| 9999535 | J1A | RPD | Turbidity | 2025/08/28 | 5.0 | | % | 20 |
| 9999639 | KMC | QC Standard | Turbidity | 2025/08/29 | | 103 | % | 80 - 120 |
| 9999639 | KMC | Spiked Blank | Turbidity | 2025/08/29 | | 107 | % | 80 - 120 |
| 9999639 | KMC | Method Blank | Turbidity | 2025/08/29 | <0.10 | | NTU | |
| 9999639 | KMC | RPD | Turbidity | 2025/08/29 | 3.8 | | % | 20 |
| A000217 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/08/28 | | 105 | % | 80 - 120 |
| A000217 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/08/28 | | 102 | % | 80 - 120 |
| A000217 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/08/28 | <2.0 | | mg/L | |
| A000217 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/08/28 | 5.5 | | % | 20 |
| A000220 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/08/28 | | 89 | % | 80 - 120 |
| A000220 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/08/28 | | 90 | % | 80 - 120 |
| A000220 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/08/28 | <0.50 | | mg/L | |



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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A000220 | MCN | RPD | Reactive Silica (SiO2) | 2025/08/28 | 3.7 | | % | 20 |
| A000222 | MCN | Spiked Blank | Colour | 2025/08/29 | | 117 | % | 80 - 120 |
| A000222 | MCN | Method Blank | Colour | 2025/08/29 | <5.0 | | TCU | |
| A000222 | MCN | RPD | Colour | 2025/08/29 | NC | | % | 20 |
| A000223 | MCN | Matrix Spike | Orthophosphate (P) | 2025/08/29 | | 92 | % | 80 - 120 |
| A000223 | MCN | Spiked Blank | Orthophosphate (P) | 2025/08/29 | | 96 | % | 80 - 120 |
| A000223 | MCN | Method Blank | Orthophosphate (P) | 2025/08/29 | <0.010 | | mg/L | |
| A000223 | MCN | RPD | Orthophosphate (P) | 2025/08/29 | NC | | % | 20 |
| A000224 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/08/29 | | 91 | % | 80 - 120 |
| A000224 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/08/29 | | 93 | % | 80 - 120 |
| A000224 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/08/29 | <0.050 | | mg/L | |
| A000224 | MCN | RPD | Nitrate + Nitrite (N) | 2025/08/29 | NC | | % | 20 |
| A000226 | MCN | Matrix Spike | Nitrite (N) | 2025/08/28 | | 103 | % | 80 - 120 |
| A000226 | MCN | Spiked Blank | Nitrite (N) | 2025/08/28 | | 102 | % | 80 - 120 |
| A000226 | MCN | Method Blank | Nitrite (N) | 2025/08/28 | <0.010 | | mg/L | |
| A000226 | MCN | RPD | Nitrite (N) | 2025/08/28 | NC | | % | 20 |
| A002566 | IH0 | Method Blank | Carbon Dioxide | 2025/09/03 | <0.6 | | L/m3 | |
| A002566 | IH0 | RPD | Carbon Dioxide | 2025/09/03 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Poor spike recovery due to sample matrix, recovery confirmed by repeat analysis.



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Bureau Veritas Job #: C5A3584
Report Date: 2025/09/05

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Rosemarie MacDonald, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Carolyn Anstey-Moore

PROJECT: 24-10333

AGAT WORK ORDER: 25K340603

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Sep 18, 2025

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Certificate of Analysis

AGAT WORK ORDER: 25K340603

PROJECT: 24-10333

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-09-04

DATE REPORTED: 2025-09-18

| | | | | SAMPLE DESCRIPTION: | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water |
| | | | | DATE SAMPLED: | 2025-09-03 10:30 | 2025-09-03 10:30 |
| Parameter | Unit | G / S | RDL | | 7023392 | 7023584 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | >2420 | 687 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 4 | 13 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | >24.2 | 6.87 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.04 | 0.13 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

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# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K340603

PROJECT: 24-10333

ATTENTION TO: Carolyn Anstey-Moore

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Have feedback? Scan here for a quick survey!

Unit 1 • 57 Old Pennywell Rd
St John's, NL
A1E 6A8
P: 709.747.8573
webearth.agatlabs.com • www.agatlabs.com

## Chain of Custody Record

**Laboratory Use Only**
Arrival Condition: ☐ Good ☐ Poor (see notes)
Arrival Temperature: 4.7, 3.2, 3.3
Hold Time:
AGAT Job Number: 25K340603
Notes:

**Report Information**
Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 29421182045HM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Report Information** (Please print):
1. Name: Carolyn Anstey-Moore
Email: cansteymoore@strum.com
2. Name:
Email:

**Report Format**
☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format Included
☐ Export

**Turnaround Time Required (TAT)**
**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days
Date Required:

**Invoice To** Same Yes ☐ / No ☐
Company: Strum Consulting
Contact: Accounting Department
Address: ksquires@strum.com, suppliers@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Regulatory Requirements** (Check):
☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Containment |
|---|---|---|---|---|
| WQM-4 | 25/9/3 10:30 | water | 1 | |
| WQM-5 | 25/09/03 11:40 | water | 1 | |
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| Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Fecal Coliform ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |
| | | | | | | | | | | | | | | | | | | | | | ☑ | |

| Samples Relinquished By (Print Name): | Date/Time | Samples Received By (Print Name): | Date/Time |
|---|---|---|---|
| M.J. Anna Whelan | Sep. 04, '25 | Damilola Soyemi | Sept 25 |
| Samples Relinquished By (Sign): | Date/Time | Samples Received By (Sign): | Date/Time |
| M.J. Whelan | | | 9:30 |

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 1
N°:


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Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/10/02**
Report #: R8624337
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5B8128**
**Received: 2025/09/22, 09:30**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/09/28 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/09/26 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/09/25 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/09/30 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/09/26 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/10/01 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/09/26 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 3 | 2025/09/26 | 2025/09/29 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/09/26 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/09/23 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/09/26 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/09/29 | 2025/09/29 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 3 | 2025/09/29 | 2025/09/29 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Field Filtered | 3 | N/A | 2025/09/25 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/09/25 | 2025/09/25 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 1 | N/A | 2025/10/01 | N/A | Auto Calc. |
| Ion Balance (% Difference) | 2 | N/A | 2025/10/02 | N/A | Auto Calc. |
| Anion and Cation Sum | 1 | N/A | 2025/10/01 | N/A | Auto Calc. |
| Anion and Cation Sum | 2 | N/A | 2025/10/02 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/10/01 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/09/30 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/10/01 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/10/01 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/09/24 | 2025/09/25 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (2) | 3 | N/A | 2025/09/26 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/10/01 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 1 | N/A | 2025/10/01 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 20C) | 2 | N/A | 2025/10/02 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 1 | N/A | 2025/10/01 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 2 | N/A | 2025/10/02 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/09/30 | ATL SOP 00022 | EPA 366.0 m |

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/10/02**
Report #: R8624337
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5B8128**
**Received: 2025/09/22, 09:30**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Sulphate | 3 | N/A | 2025/09/30 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 1 | N/A | 2025/10/01 | N/A | Auto Calc. |
| Total Dissolved Solids (TDS calc) | 2 | N/A | 2025/10/02 | N/A | Auto Calc. |
| Organic carbon - Total (TOC) (3) | 3 | N/A | 2025/10/01 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/09/30 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/09/24 | 2025/09/25 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/09/29 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/09/26 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/09/25 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/10/02**
Report #: R8624337
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5B8128**

**Received: 2025/09/22, 09:30**

report are reported past the APHA Standard Method holding time.
(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203

==========

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Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AVKP67 | | AVKP68 | | AVKP69 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | | 2025/09/18 10:40 | | 2025/09/18 10:05 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | |
| Anion Sum | me/L | 0.890 | A016329 | 0.780 | A016329 | 0.950 | N/A | A016329 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 35 | A016323 | 30 | A016323 | 37 | 1.0 | A016323 |
| Calculated TDS | mg/L | 51 | A016335 | 45 | A016335 | 54 | 1.0 | A016335 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | A016323 | <1.0 | A016323 | <1.0 | 1.0 | A016323 |
| Cation Sum | me/L | 0.920 | A016329 | 0.810 | A016329 | 0.990 | N/A | A016329 |
| Hardness (CaCO3) | mg/L | 37 | A016628 | 32 | A016787 | 40 | 1.0 | A016787 |
| Ion Balance (% Difference) | % | 1.66 | A016328 | 1.89 | A016328 | 2.06 | N/A | A016328 |
| Langelier Index (@ 20C) | N/A | -1.10 | A016333 | -1.15 | A016333 | -0.878 | | A016333 |
| Langelier Index (@ 4C) | N/A | -1.35 | A016334 | -1.41 | A016334 | -1.13 | | A016334 |
| Nitrate (N) | mg/L | 0.11 | A016788 | <0.050 | A016788 | 0.052 | 0.050 | A016788 |
| Saturation pH (@ 20C) | N/A | 8.70 | A016333 | 8.84 | A016333 | 8.65 | | A016333 |
| Saturation pH (@ 4C) | N/A | 8.95 | A016334 | 9.09 | A016334 | 8.90 | | A016334 |
| **Inorganics** | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 35 | A019549 | 30 | A019549 | 37 | 2.0 | A019549 |
| Dissolved Chloride (Cl-) | mg/L | 4.4 | A021460 | 4.7 | A021460 | 5.3 | 1.0 | A021460 |
| Colour | TCU | 29 | A021467 | 27 | A021467 | 26 | 5.0 | A021467 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | A019550 | <0.10 | A019550 | <0.10 | 0.10 | A019550 |
| Nitrate + Nitrite (N) | mg/L | 0.13 | A021470 | <0.050 | A021470 | 0.067 | 0.050 | A021470 |
| Nitrite (N) | mg/L | 0.017 | A021472 | <0.010 | A021472 | 0.015 | 0.010 | A021472 |
| Nitrogen (Ammonia Nitrogen) | mg/L | <0.050 | A023162 | <0.050 | A021866 | <0.050 | 0.050 | A023162 |
| Total Organic Carbon (C) | mg/L | 5.4 | A021894 | 6.4 | A021885 | 5.6 | 0.50 | A021894 |
| Orthophosphate (P) | mg/L | <0.010 | A021469 | <0.010 | A021469 | <0.010 | 0.010 | A021469 |
| pH | pH | 7.60 | A019543 | 7.69 | A019543 | 7.77 | | A019543 |
| Reactive Silica (SiO2) | mg/L | 4.8 | A021466 | 3.7 | A021466 | 4.0 | 0.50 | A021466 |
| Total Suspended Solids | mg/L | 6.8 | A017470 | 2.0 | A017470 | 1.8 | 1.0 | A017470 |
| Dissolved Sulphate (SO4) | mg/L | 2.7 | A021463 | 2.4 | A021463 | 2.5 | 2.0 | A021463 |
| Turbidity | NTU | 1.7 | A020708 | 1.7 | A020708 | 0.50 | 0.10 | A020708 |
| Conductivity | uS/cm | 94 | A019547 | 84 | A019547 | 100 | 1.0 | A019547 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AVKP67 | | | AVKP67 | | | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | | | 2025/09/18 11:10 | | | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | 0.013 | A019788 | | | | <0.013 | <0.013 | 0.013 | A019788 |
| Total Mercury (Hg) | ug/L | <0.013 | 0.013 | A019812 | <0.013 | 0.013 | A019812 | <0.013 | <0.013 | 0.013 | A019812 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 13 | 7.4 | 6.7 | 5.0 | A018469 |
| Total Aluminum (Al) | ug/L | 29 | 15 | 13 | 5.0 | A018350 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018469 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018350 |
| Dissolved Arsenic (As) | ug/L | 1.0 | 1.1 | <1.0 | 1.0 | A018469 |
| Total Arsenic (As) | ug/L | 1.2 | 1.2 | <1.0 | 1.0 | A018350 |
| Dissolved Barium (Ba) | ug/L | 12 | 7.0 | 17 | 1.0 | A018469 |
| Total Barium (Ba) | ug/L | 11 | 7.3 | 17 | 1.0 | A018350 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018469 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018350 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | 50 | A018469 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | 50 | A018350 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A018469 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A018350 |
| Dissolved Calcium (Ca) | ug/L | 12000 | 9800 | 12000 | 100 | A018469 |
| Total Calcium (Ca) | ug/L | 11000 | 9800 | 12000 | 100 | A018350 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018469 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018350 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | A018469 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | A018350 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018469 |
| Total Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018350 |
| Dissolved Iron (Fe) | ug/L | 150 | <50 | <50 | 50 | A018469 |
| Total Iron (Fe) | ug/L | 220 | 110 | 65 | 50 | A018350 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018469 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018350 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Magnesium (Mg) | ug/L | 1900 | 1800 | 2100 | 100 | A018469 |
| Total Magnesium (Mg) | ug/L | 1900 | 1900 | 2000 | 100 | A018350 |
| Dissolved Manganese (Mn) | ug/L | 12 | 2.7 | 9.4 | 2.0 | A018469 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 22 | 29 | 16 | 2.0 | A018350 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | A018469 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | A018350 |
| Dissolved Potassium (K) | ug/L | 400 | 300 | 300 | 100 | A018469 |
| Total Potassium (K) | ug/L | 290 | 280 | 280 | 100 | A018350 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018469 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018350 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018469 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018350 |
| Dissolved Sodium (Na) | ug/L | 3700 | 3900 | 4200 | 100 | A018469 |
| Total Sodium (Na) | ug/L | 3500 | 3900 | 4100 | 100 | A018350 |
| Dissolved Strontium (Sr) | ug/L | 41 | 35 | 44 | 2.0 | A018469 |
| Total Strontium (Sr) | ug/L | 39 | 36 | 42 | 2.0 | A018350 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018469 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018350 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018469 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A018350 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018469 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018350 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | A018469 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | A018350 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | |
| Carbon Dioxide | L/m3 | 1.3 | <0.6 | <0.6 | 0.6 | A019394 |
| Calculated Carbon Dioxide | mg/L | 2 | <1 | <1 | 1 | A016636 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | A017445 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | A017445 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | A016624 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | A017445 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Phenanthrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A017445 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 75 | 62 | 70 | | A017445 |
| D14-Terphenyl | % | 65 (1) | 59 (1) | 73 (1) | | A017445 |
| D8-Acenaphthylene | % | 75 | 69 | 79 | | A017445 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018412 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | A018412 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A018412 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A018412 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | A018412 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018412 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A018412 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AVKP67 | AVKP68 | AVKP69 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/09/18 11:10 | 2025/09/18 10:40 | 2025/09/18 10:05 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A018412 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A018412 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A018412 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 101 | 100 | 100 | | A018412 |
| D4-1,2-Dichloroethane | % | 100 | 101 | 99 | | A018412 |
| D8-Toluene | % | 101 | 101 | 100 | | A018412 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## ATLANTIC RBCA HYDROCARBONS (WATER)

| Bureau Veritas ID | | AVKP67 | AVKP68 | | | AVKP68 | | | AVKP69 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/09/18 11:10 | 2025/09/18 10:40 | | | 2025/09/18 10:40 | | | 2025/09/18 10:05 | | |
| COC Number | | N/A | N/A | | | N/A | | | N/A | | |
| | UNITS | WQM-3 | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch | WQM-5 | RDL | QC Batch |
| **Petroleum Hydrocarbons** | | | | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | 0.0010 | A018680 | | | | <0.0010 | 0.0010 | A018680 |
| Toluene | mg/L | <0.0010 | <0.0010 | 0.0010 | A018680 | | | | <0.0010 | 0.0010 | A018680 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | 0.0010 | A018680 | | | | <0.0010 | 0.0010 | A018680 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | 0.0020 | A018680 | | | | <0.0020 | 0.0020 | A018680 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | 0.090 | A018680 | | | | <0.090 | 0.090 | A018680 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | 0.050 | A019340 | <0.050 | 0.050 | A019340 | <0.050 | 0.050 | A019340 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | 0.050 | A019340 | <0.050 | 0.050 | A019340 | <0.050 | 0.050 | A019340 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | 0.090 | A019340 | <0.090 | 0.090 | A019340 | <0.090 | 0.090 | A019340 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | 0.090 | A016517 | | | | <0.090 | 0.090 | A016517 |
| Reached Baseline at C32 | mg/L | NA | NA | N/A | A019340 | | | | NA | N/A | A019340 |
| Hydrocarbon Resemblance | mg/L | NA | NA | N/A | A019340 | | | | NA | N/A | A019340 |
| **Surrogate Recovery (%)** | | | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 79 | 93 | | A019340 | 91 | | A019340 | 92 | | A019340 |
| n-Dotriacontane - Extractable | % | 84 | 99 | | A019340 | 96 | | A019340 | 95 | | A019340 |
| Isobutylbenzene - Volatile | % | 101 | 101 | | A018680 | | | | 101 (1) | | A018680 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) VPH sample contained headspace.



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 5.8°C |

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A017445 | EPA | Matrix Spike | D10-Anthracene | 2025/09/25 | | 76 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/09/25 | | 80 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/09/25 | | 89 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/09/25 | | 89 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/09/25 | | 97 | % | 50 - 130 |
| | | | Acenaphthene | 2025/09/25 | | 93 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Anthracene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/09/25 | | 79 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/09/25 | | 100 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/09/25 | | 88 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/09/25 | | 85 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/09/25 | | 91 | % | 50 - 130 |
| | | | Chrysene | 2025/09/25 | | 85 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/09/25 | | 82 | % | 50 - 130 |
| | | | Fluoranthene | 2025/09/25 | | 92 | % | 50 - 130 |
| | | | Fluorene | 2025/09/25 | | 91 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/09/25 | | 87 | % | 50 - 130 |
| | | | Naphthalene | 2025/09/25 | | 93 | % | 50 - 130 |
| | | | Perylene | 2025/09/25 | | 92 | % | 50 - 130 |
| | | | Phenanthrene | 2025/09/25 | | 96 | % | 50 - 130 |
| | | | Pyrene | 2025/09/25 | | 92 | % | 50 - 130 |
| A017445 | EPA | Spiked Blank | D10-Anthracene | 2025/09/25 | | 75 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/09/25 | | 79 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/09/25 | | 91 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/09/25 | | 82 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/09/25 | | 87 | % | 50 - 130 |
| | | | Acenaphthene | 2025/09/25 | | 87 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Anthracene | 2025/09/25 | | 95 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/09/25 | | 93 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/09/25 | | 89 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/09/25 | | 76 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/09/25 | | 91 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/09/25 | | 80 | % | 50 - 130 |
| | | | Chrysene | 2025/09/25 | | 99 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/09/25 | | 74 | % | 50 - 130 |
| | | | Fluoranthene | 2025/09/25 | | 87 | % | 50 - 130 |
| | | | Fluorene | 2025/09/25 | | 93 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/09/25 | | 82 | % | 50 - 130 |
| | | | Naphthalene | 2025/09/25 | | 90 | % | 50 - 130 |
| | | | Perylene | 2025/09/25 | | 82 | % | 50 - 130 |
| | | | Phenanthrene | 2025/09/25 | | 90 | % | 50 - 130 |
| | | | Pyrene | 2025/09/25 | | 86 | % | 50 - 130 |
| A017445 | EPA | Method Blank | D10-Anthracene | 2025/09/25 | | 79 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/09/25 | | 88 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/09/25 | | 100 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/09/25 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/09/25 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/09/25 | <0.010 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthylene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/09/25 | <0.20 | | ug/L | |
| | | | Perylene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/09/25 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/09/25 | <0.010 | | ug/L | |
| A017445 | EPA | RPD | 1-Methylnaphthalene | 2025/09/25 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/09/25 | NC | | % | 40 |
| | | | Acenaphthene | 2025/09/25 | NC | | % | 40 |
| | | | Acenaphthylene | 2025/09/25 | NC | | % | 40 |
| | | | Anthracene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/09/25 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/09/25 | NC | | % | 40 |
| | | | Chrysene | 2025/09/25 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/09/25 | NC | | % | 40 |
| | | | Fluoranthene | 2025/09/25 | NC | | % | 40 |
| | | | Fluorene | 2025/09/25 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/09/25 | NC | | % | 40 |
| | | | Naphthalene | 2025/09/25 | NC | | % | 40 |
| | | | Perylene | 2025/09/25 | NC | | % | 40 |
| | | | Phenanthrene | 2025/09/25 | NC | | % | 40 |
| | | | Pyrene | 2025/09/25 | NC | | % | 40 |
| A017470 | ISM | QC Standard | Total Suspended Solids | 2025/09/25 | | 98 | % | 80 - 120 |
| A017470 | ISM | Method Blank | Total Suspended Solids | 2025/09/25 | <1.0 | | mg/L | |
| A017470 | ISM | RPD | Total Suspended Solids | 2025/09/25 | 16 | | % | 20 |
| A018350 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/09/26 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/09/26 | | 102 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/09/26 | | 98 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/09/26 | | 100 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/09/26 | | 93 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/09/26 | | 95 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/09/26 | | 91 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/09/26 | | 93 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/09/26 | | 95 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/09/26 | | 96 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/09/26 | | 96 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Iron (Fe) | 2025/09/26 | | 93 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/09/26 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/09/26 | | 97 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/09/26 | | 95 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/09/26 | | 94 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/09/26 | | 104 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/09/26 | | 99 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/09/26 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/09/26 | | 99 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/09/26 | | 100 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/09/26 | | 96 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/09/26 | | 98 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/09/26 | | NC | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/09/26 | | 97 | % | 80 - 120 |
| A018350 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/09/25 | | 95 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/09/25 | | 94 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/09/25 | | 96 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/09/25 | | 97 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/09/25 | | 106 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/09/25 | | 97 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/09/25 | | 104 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/09/25 | | 103 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/09/25 | | 99 | % | 80 - 120 |
| A018350 | MOA | Method Blank | Total Aluminum (Al) | 2025/09/25 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/09/25 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Arsenic (As) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/09/25 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/09/25 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/09/25 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/09/25 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/09/25 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/09/25 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/09/25 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/09/25 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/09/25 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/09/25 | <5.0 | | ug/L | |
| A018350 | MOA | RPD | Total Aluminum (Al) | 2025/09/26 | NC | | % | 20 |
| | | | Total Antimony (Sb) | 2025/09/26 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/09/26 | NC | | % | 20 |
| | | | Total Barium (Ba) | 2025/09/26 | 2.4 | | % | 20 |
| | | | Total Beryllium (Be) | 2025/09/26 | NC | | % | 20 |
| | | | Total Bismuth (Bi) | 2025/09/26 | NC | | % | 20 |
| | | | Total Boron (B) | 2025/09/26 | NC | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/09/26 | NC | | % | 20 |
| | | | Total Calcium (Ca) | 2025/09/26 | 1.2 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/09/26 | NC | | % | 20 |
| | | | Total Cobalt (Co) | 2025/09/26 | NC | | % | 20 |
| | | | Total Iron (Fe) | 2025/09/26 | NC | | % | 20 |
| | | | Total Lead (Pb) | 2025/09/26 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/09/26 | NC | | % | 20 |
| | | | Total Manganese (Mn) | 2025/09/26 | NC | | % | 20 |
| | | | Total Molybdenum (Mo) | 2025/09/26 | 1.2 | | % | 20 |
| | | | Total Nickel (Ni) | 2025/09/26 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/09/26 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/09/26 | 0.49 | | % | 20 |
| | | | Total Selenium (Se) | 2025/09/26 | 7.3 | | % | 20 |
| | | | Total Silver (Ag) | 2025/09/26 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/09/26 | 0.40 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/09/26 | 1.5 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Thallium (Tl) | 2025/09/26 | NC | | % | 20 |
| | | | Total Tin (Sn) | 2025/09/26 | NC | | % | 20 |
| | | | Total Titanium (Ti) | 2025/09/26 | NC | | % | 20 |
| | | | Total Uranium (U) | 2025/09/26 | NC | | % | 20 |
| | | | Total Vanadium (V) | 2025/09/26 | 1.2 | | % | 20 |
| | | | Total Zinc (Zn) | 2025/09/26 | NC | | % | 20 |
| A018412 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | D8-Toluene | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/09/25 | | 102 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/09/25 | | 105 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/09/25 | | 103 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/09/25 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/09/25 | | 88 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/09/25 | | 88 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | Benzene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | Bromoform | 2025/09/25 | | 102 | % | 70 - 130 |
| | | | Bromomethane | 2025/09/25 | | 100 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/09/25 | | 107 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Chloroethane | 2025/09/25 | | 99 | % | 60 - 140 |
| | | | Chloroform | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Chloromethane | 2025/09/25 | | 103 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | Styrene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | Toluene | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/09/25 | | 93 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/09/25 | | 102 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/09/25 | | 100 | % | 60 - 140 |
| | | | o-Xylene | 2025/09/25 | | 101 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/09/25 | | 100 | % | 70 - 130 |
| A018412 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/09/25 | | 101 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | D8-Toluene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/09/25 | | 102 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/09/25 | | 106 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/09/25 | | 105 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/09/25 | | 94 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,2,2-Tetrachloroethane | 2025/09/25 | | 92 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/09/25 | | 104 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/09/25 | | 90 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/09/25 | | 90 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | Benzene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/09/25 | | 94 | % | 70 - 130 |
| | | | Bromoform | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | Bromomethane | 2025/09/25 | | 101 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/09/25 | | 109 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | Chloroethane | 2025/09/25 | | 100 | % | 60 - 140 |
| | | | Chloroform | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | Chloromethane | 2025/09/25 | | 100 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/09/25 | | 93 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/09/25 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/09/25 | | 101 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/09/25 | | 94 | % | 70 - 130 |
| | | | Styrene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Toluene | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/09/25 | | 95 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/09/25 | | 104 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/09/25 | | 100 | % | 60 - 140 |
| | | | o-Xylene | 2025/09/25 | | 104 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/09/25 | | 103 | % | 70 - 130 |
| A018412 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/09/25 | | 101 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/09/25 | | 96 | % | 70 - 130 |
| | | | D8-Toluene | 2025/09/25 | | 100 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/09/25 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/09/25 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/09/25 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/09/25 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/09/25 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/09/25 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/09/25 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/09/25 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/09/25 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/09/25 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/09/25 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/09/25 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/09/25 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/09/25 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Benzene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/09/25 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2025/09/25 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/09/25 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/09/25 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/09/25 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/09/25 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/09/25 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/09/25 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/09/25 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Styrene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Toluene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/09/25 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/09/25 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/09/25 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/09/25 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/09/25 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/09/25 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/09/25 | <1.0 | | ug/L | |
| A018412 | A1M | RPD | 1,1-Dichloroethane | 2025/09/25 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/09/25 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/09/25 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/09/25 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/09/25 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/09/25 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/09/25 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/09/25 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/09/25 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/09/25 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/09/25 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/09/25 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/09/25 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/09/25 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/09/25 | NC | | % | 40 |
| | | | Benzene | 2025/09/25 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/09/25 | NC | | % | 40 |
| | | | Bromoform | 2025/09/25 | NC | | % | 40 |
| | | | Bromomethane | 2025/09/25 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/09/25 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/09/25 | NC | | % | 40 |
| | | | Chloroethane | 2025/09/25 | NC | | % | 40 |
| | | | Chloroform | 2025/09/25 | NC | | % | 40 |
| | | | Chloromethane | 2025/09/25 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/09/25 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/09/25 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/09/25 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/09/25 | NC | | % | 40 |
| | | | Styrene | 2025/09/25 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/09/25 | NC | | % | 40 |
| | | | Toluene | 2025/09/25 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Trichloroethylene | 2025/09/25 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/09/25 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/09/25 | NC | | % | 40 |
| | | | o-Xylene | 2025/09/25 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/09/25 | NC | | % | 40 |
| | | | Total Xylenes | 2025/09/25 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/09/25 | NC | | % | 40 |
| A018469 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/09/25 | | 104 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/09/25 | | 103 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/09/25 | | 95 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/09/25 | | NC | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/09/25 | | NC | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/09/25 | | 107 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/09/25 | | 112 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/09/25 | | 108 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/09/25 | | 104 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/09/25 | | NC | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/09/25 | | 103 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/09/25 | | 103 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/09/25 | | 108 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/09/25 | | 104 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/09/25 | | 100 | % | 80 - 120 |
| A018469 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/09/25 | | 97 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/09/25 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/09/25 | | 99 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/09/25 | | 103 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/09/25 | | 101 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Lithium (Li) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/09/25 | | 104 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/09/25 | | 106 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/09/25 | | 105 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/09/25 | | 98 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/09/25 | | 100 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/09/25 | | 101 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/09/25 | | 106 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/09/25 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/09/25 | | 100 | % | 80 - 120 |
| A018469 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/09/25 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/09/25 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/09/25 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/09/25 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/09/25 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/09/25 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/09/25 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/09/25 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/09/25 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/09/25 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/09/25 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/09/25 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/09/25 | <0.10 | | ug/L | |
| | | | Dissolved Vanadium (V) | 2025/09/25 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/09/25 | <5.0 | | ug/L | |
| A018469 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/09/25 | 1.3 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Beryllium (Be) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/09/25 | 1.6 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/09/25 | 1.2 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/09/25 | 0.36 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/09/25 | 1.1 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/09/25 | 0.14 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/09/25 | 0.55 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/09/25 | 3.8 | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/09/25 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/09/25 | NC | | % | 20 |
| A018680 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/09/25 | | 99 | % | 70 - 130 |
| | | | Benzene | 2025/09/25 | | 88 | % | 70 - 130 |
| | | | Toluene | 2025/09/25 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/09/25 | | 93 | % | 70 - 130 |
| | | | Total Xylenes | 2025/09/25 | | 98 | % | 70 - 130 |
| A018680 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/09/25 | | 103 | % | 70 - 130 |
| | | | Benzene | 2025/09/25 | | 97 | % | 70 - 130 |
| | | | Toluene | 2025/09/25 | | 98 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/09/25 | | 101 | % | 70 - 130 |
| | | | Total Xylenes | 2025/09/25 | | 107 | % | 70 - 130 |
| A018680 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/09/25 | | 102 | % | 70 - 130 |
| | | | Benzene | 2025/09/25 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/09/25 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/09/25 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/09/25 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/09/25 | <0.090 | | mg/L | |
| A018680 | THL | RPD | Benzene | 2025/09/25 | NC | | % | 40 |
| | | | Toluene | 2025/09/25 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/09/25 | NC | | % | 40 |
| | | | Total Xylenes | 2025/09/25 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/09/25 | NC | | % | 40 |
| A019340 | MSK | Matrix Spike | Isobutylbenzene - Extractable | 2025/09/29 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/09/29 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/09/29 | | 97 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/09/29 | | 92 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/09/29 | | 85 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A019340 | MSK | Spiked Blank | Isobutylbenzene - Extractable | 2025/09/29 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/09/29 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/09/29 | | 100 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/09/29 | | 93 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/09/29 | | 88 | % | 70 - 130 |
| A019340 | MSK | Method Blank | Isobutylbenzene - Extractable | 2025/09/29 | | 92 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/09/29 | | 97 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/09/29 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/09/29 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/09/29 | <0.090 | | mg/L | |
| A019340 | MSK | RPD [AVKP68-07] | >C10-C16 Hydrocarbons | 2025/09/29 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/09/29 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/09/29 | NC | | % | 40 |
| A019394 | CAT | Method Blank | Carbon Dioxide | 2025/09/26 | <0.6 | | L/m3 | |
| A019394 | CAT | RPD | Carbon Dioxide | 2025/09/26 | 7.2 | | % | 20 |
| A019543 | J1A | Spiked Blank | pH | 2025/09/26 | | 100 | % | 97 - 103 |
| A019543 | J1A | RPD | pH | 2025/09/26 | 1.1 | | % | N/A |
| A019547 | J1A | Spiked Blank | Conductivity | 2025/09/26 | | 103 | % | 80 - 120 |
| A019547 | J1A | Method Blank | Conductivity | 2025/09/26 | <1.0 | | uS/cm | |
| A019547 | J1A | RPD | Conductivity | 2025/09/26 | 0 | | % | 10 |
| A019549 | J1A | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/09/26 | | 93 | % | 80 - 120 |
| A019549 | J1A | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/09/26 | <2.0 | | mg/L | |
| A019549 | J1A | RPD | Total Alkalinity (Total as CaCO3) | 2025/09/26 | 12 | | % | 20 |
| A019550 | J1A | Matrix Spike | Dissolved Fluoride (F-) | 2025/09/26 | | 91 | % | 80 - 120 |
| A019550 | J1A | Spiked Blank | Dissolved Fluoride (F-) | 2025/09/26 | | 94 | % | 80 - 120 |
| A019550 | J1A | Method Blank | Dissolved Fluoride (F-) | 2025/09/26 | <0.10 | | mg/L | |
| A019550 | J1A | RPD | Dissolved Fluoride (F-) | 2025/09/26 | NC | | % | 20 |
| A019788 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/09/29 | | 98 | % | 80 - 120 |
| A019788 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/09/29 | | 101 | % | 80 - 120 |
| A019788 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/09/29 | <0.013 | | ug/L | |
| A019788 | JEP | RPD | Dissolved Mercury (Hg) | 2025/09/29 | NC | | % | 20 |
| A019812 | JEP | Matrix Spike [AVKP68-06] | Total Mercury (Hg) | 2025/09/29 | | 99 | % | 80 - 120 |
| A019812 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/09/29 | | 97 | % | 80 - 120 |
| A019812 | JEP | Method Blank | Total Mercury (Hg) | 2025/09/29 | <0.013 | | ug/L | |
| A019812 | JEP | RPD [AVKP67-06] | Total Mercury (Hg) | 2025/09/29 | NC | | % | 20 |
| A020708 | KMC | QC Standard | Turbidity | 2025/09/29 | | 95 | % | 80 - 120 |
| A020708 | KMC | Spiked Blank | Turbidity | 2025/09/29 | | 100 | % | 80 - 120 |
| A020708 | KMC | Method Blank | Turbidity | 2025/09/29 | <0.10 | | NTU | |
| A020708 | KMC | RPD | Turbidity | 2025/09/29 | 0.83 | | % | 20 |
| A021460 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/09/30 | | 97 | % | 80 - 120 |
| A021460 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/09/30 | | 98 | % | 80 - 120 |
| A021460 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/09/30 | <1.0 | | mg/L | |
| A021460 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/09/30 | 0.37 | | % | 20 |
| | | | Dissolved Chloride (Cl-) | 2025/09/30 | NC | | % | 20 |
| A021463 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/09/30 | | 106 | % | 80 - 120 |
| A021463 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/09/30 | | 105 | % | 80 - 120 |
| A021463 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/09/30 | <2.0 | | mg/L | |
| A021463 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/09/30 | 1.1 | | % | 20 |
| | | | Dissolved Sulphate (SO4) | 2025/09/30 | NC | | % | 20 |
| A021466 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/09/30 | | NC | % | 80 - 120 |
| A021466 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/09/30 | | 98 | % | 80 - 120 |
| A021466 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/09/30 | <0.50 | | mg/L | |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A021466 | MCN | RPD | Reactive Silica (SiO2) | 2025/09/30 | 1.1 | | % | 20 |
| A021467 | MCN | Spiked Blank | Colour | 2025/10/01 | | 118 | % | 80 - 120 |
| A021467 | MCN | Method Blank | Colour | 2025/10/01 | <5.0 | | TCU | |
| A021467 | MCN | RPD | Colour | 2025/10/01 | NC | | % | 20 |
| | | | Colour | 2025/10/01 | NC | | % | 20 |
| A021469 | MCN | Matrix Spike | Orthophosphate (P) | 2025/10/01 | | 94 | % | 80 - 120 |
| A021469 | MCN | Spiked Blank | Orthophosphate (P) | 2025/10/01 | | 94 | % | 80 - 120 |
| A021469 | MCN | Method Blank | Orthophosphate (P) | 2025/10/01 | <0.010 | | mg/L | |
| A021469 | MCN | RPD | Orthophosphate (P) | 2025/10/01 | NC | | % | 20 |
| | | | Orthophosphate (P) | 2025/10/01 | NC | | % | 20 |
| A021470 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/09/30 | | 100 | % | 80 - 120 |
| A021470 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/09/30 | | 104 | % | 80 - 120 |
| A021470 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/09/30 | <0.050 | | mg/L | |
| A021470 | MCN | RPD | Nitrate + Nitrite (N) | 2025/09/30 | NC | | % | 20 |
| | | | Nitrate + Nitrite (N) | 2025/09/30 | NC | | % | 20 |
| A021472 | MCN | Matrix Spike | Nitrite (N) | 2025/09/30 | | 102 | % | 80 - 120 |
| A021472 | MCN | Spiked Blank | Nitrite (N) | 2025/09/30 | | 106 | % | 80 - 120 |
| A021472 | MCN | Method Blank | Nitrite (N) | 2025/10/01 | <0.010 | | mg/L | |
| A021472 | MCN | RPD | Nitrite (N) | 2025/09/30 | 13 | | % | 20 |
| A021866 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/09/30 | | 110 | % | 80 - 120 |
| A021866 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/09/30 | | 107 | % | 80 - 120 |
| A021866 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/09/30 | <0.050 | | mg/L | |
| A021866 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/10/01 | NC | | % | 20 |
| A021885 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/09/30 | | 95 | % | 85 - 115 |
| A021885 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/09/30 | | 100 | % | 80 - 120 |
| A021885 | S6S | Method Blank | Total Organic Carbon (C) | 2025/09/30 | <0.50 | | mg/L | |
| A021885 | S6S | RPD | Total Organic Carbon (C) | 2025/09/30 | NC | | % | 15 |
| A021894 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/10/01 | | 96 | % | 85 - 115 |
| A021894 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/10/01 | | 100 | % | 80 - 120 |
| A021894 | S6S | Method Blank | Total Organic Carbon (C) | 2025/10/01 | <0.50 | | mg/L | |
| A021894 | S6S | RPD | Total Organic Carbon (C) | 2025/10/01 | 3.4 | | % | 15 |
| A023162 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/10/01 | | 111 | % | 80 - 120 |
| A023162 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/10/01 | | 110 | % | 80 - 120 |
| A023162 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/10/01 | <0.050 | | mg/L | |
| A023162 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/10/01 | NC | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



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Bureau Veritas Job #: C5B8128
Report Date: 2025/10/02

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BS

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist

Janah Rhyno, Scientific Specialist

Rosemarie MacDonald, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

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Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

CLIENT NAME: STRUM ENVIRONMENTAL
120 TORBAY RD, UNIT E120
ST JOHN'S , NL A1A 2G8

ATTENTION TO: Paula Brennan

PROJECT:

AGAT WORK ORDER: 25K376474

MICROBIOLOGY ANALYSIS REVIEWED BY: Jennifer Doyle, Laboratory Supervisor

DATE REPORTED: Nov 28, 2025

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (709)747-8573

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
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- All reportable information is available on request from AGAT Laboratories, in accordance with ISO/IEC 17025:2017, ISO/IEC 17025:2005 (Quebec), DR-12-PALA and/or NELAP Standards.
- This document is signed by an authorized signatory who meets the requirements of the MELCCFP, CALA, CCN and NELAP.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



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Western Enviro-Agricultural Laboratory Association (WEALA)
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AGAT Laboratories

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

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# Certificate of Analysis

AGAT WORK ORDER: 25K376474

PROJECT:

CLIENT NAME: STRUM ENVIRONMENTAL

ATTENTION TO: Paula Brennan

SAMPLING SITE:

SAMPLED BY:

## TC & EC by MPN

DATE RECEIVED: 2025-11-27

DATE REPORTED: 2025-11-28

| | | | | SAMPLE DESCRIPTION: | WQM-3 | WQM-4 | WQM-5 |
|---|---|---|---|---|---|---|---|
| | | | | SAMPLE TYPE: | Water | Water | Water |
| | | | | DATE SAMPLED: | 2025-11-26 09:15 | 2025-11-26 09:46 | 2025-11-26 10:10 |
| Parameter | Unit | G / S | RDL | | 7289509 | 7289510 | 7289511 |
| Total Coliforms (MPN) | MPN/100 mL | | 1 | | 260 | 365 | 387 |
| E. Coli (MPN) | MPN/100 mL | | 1 | | 47 | 26 | 36 |
| Total Coliforms - MPN | MPN/mL | | 0.01 | | 2.60 | 3.65 | 3.87 |
| E. Coli - MPN | MPN/mL | | 0.01 | | 0.47 | 0.26 | 0.36 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT St John's (unless marked by *)

Certified By: Jennifer Doyle.



Results relate only to the items tested. Results apply to samples as received.

5 Sea Rose Avenue
St. John's, NL
CANADA A1A 0P6
TEL (709)726-9345

http://www.agatlabs.com

# Method Summary

CLIENT NAME: STRUM ENVIRONMENTAL

AGAT WORK ORDER: 25K376474

PROJECT:

ATTENTION TO: Paula Brennan

SAMPLING SITE:

SAMPLED BY:

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---|---|---|---|
| Microbiology Analysis | | | |
| Total Coliforms (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli (MPN) | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| Total Coliforms - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |
| E. Coli - MPN | MIC-123-7000 | Based on SM 9223B | INCUBATOR |



Results relate only to the items tested. Results apply to samples as received.

# AGAT Laboratories

Unit 1 ▪ 57 Old Pennywell Rd
St. John's, NL
A1E 6A8
**P: 709.747.8573**

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**webearth.agatlabs.com ▪ www.agatlabs.com**

## Chain of Custody Record

**Report Information**

Company: Strum Consulting
Contact: Accounting Department
Address: 120 Torbay Road, Suite E120
St. John's, NL
Phone: 709-738-8478 Fax:
Client Project #: 24-10333
AGAT Quotation: 2942118204SHM
Please Note: If quotation number is not provided client will be billed full price for analysis.

**Invoice To** Same Yes ☐ / No ☐

Company: Strum Consulting
Contact: Accounting Department
Address: ksquitres@strum.com, supplies@strum.com, labs@strum.c
Phone: Fax:
PO/Credit Card#: 24-10333 Task 7

**Report Information** (Please print):

1. Name: Carolyn Anstey-Moore
   Email: canstey moore@strum.com
2. Name:
   Email:

**Regulatory Requirements** (Check):

☐ List Guidelines on Report ☐ Do not list Guidelines on Report
☐ PIRI
☐ Tier 1 ☐ Res ☐ Pot ☐ Coarse
☐ Tier 2 ☐ Com ☐ N/Pot ☐ Fine
☐ Gas ☐ Fuel ☐ Lube
☐ CCME ☐ CDWQ
☐ Industrial ☐ NL DOEC GW
☐ Commercial
☐ Res/Park ☐ NLDOEC Discharge
☐ Agricultural
☐ FWAL
☐ Sediment ☐ Other

| Sample Identification | Date/Time Sampled | Sample Matrix | # Containers | Comments – Site/Sample Info. Sample Contamment | Field Filtered/Preserved | Standard Water Analysis | Metals: ☐ Total ☐ Diss ☐ Available | Mercury | ☐ BOD ☐ CBOD | pH | ☐ TSS ☐ TDS ☐ VSS | TKN | Total Phosphorus | Phenols | Tier 1: TPH/BTEX (PIRI) ☐ low level | Tier 2: TPH/BTEX Fractionation | CCME-CWS TPH/BTEX | VOC | THM | HAA | PAH | PCB | TC + EC ☐ P/A ☐ MPN ☐ MF | Other: Total Coliforms E.Coli MPN | Fecal Coliform ☐ MPN ☐ MF | ☐ HPC ☐ Pseudomonas | Other: | Hazardous (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WQM-3 | Nov. 26/25 9:15 AM | Water | 1 | | | | | | | | | | | | | | | | | | | | | ☑ | | | |
| WQM-4 | " 9:40AM | Water | 1 | | | | | | | | | | | | | | | | | | | | | ☑ | | | |
| WQM-5 | " 10:10AM | Water | 1 | | | | | | | | | | | | | | | | | | | | | ☑ | | | |

**Laboratory Use Only**

Arrival Condition: ☑ Good ☐ Poor (see notes)
Arrival Temperature: 5.4, 7.6, 9.0
Hold Time:
AGAT Job Number: 25K376477

Notes:

**Turnaround Time Required (TAT)**

**Regular TAT** ☑ 5 to 7 working days
**Rush TAT** ☐ Same day ☐ 1 day ☐ 2 days ☐ 3 days

Date Required:

**Report Format**

☐ Single Sample per page
☐ Multiple Samples per page
☐ Excel Format included
☐ Export

**Drinking Water Sample:** ☐ Yes ☐ No **Salt Water Sample** ☐ Yes ☐ No
Reg. No.:

| Samples Relinquished By (Print Name): | Date/Time | Samples Received By (Print Name): | Date/Time | Pink Copy - Client | Date/Time | Page 1 of 1 |
|---|---|---|---|---|---|---|
| Jessica McGrath | 2025 Nov 27 | | | Yellow Copy - AGAT | | |
| Samples Relinquished By (Sign): | | Samples Received By (Sign): | | White Copy - AGAT | | N°: 2025NOV27 9:07 |

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Document ID: DIV-138-1502.004 Date revised: June 16, 2023

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/12/10**
Report #: R8666339
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5F0942**
**Received: 2025/11/28, 09:43**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Carbonate, Bicarbonate and Hydroxide | 3 | N/A | 2025/12/05 | N/A | SM 24 4500-CO2 D |
| Alkalinity | 3 | N/A | 2025/12/04 | ATL SOP 00142 | SM 24 2320 B |
| Benzo(b/j)fluoranthene Sum (water) | 3 | N/A | 2025/12/04 | N/A | Auto Calc. |
| Chloride | 3 | N/A | 2025/12/05 | ATL SOP 00014 | SM 24 4500-Cl- E m |
| Dissolved Carbon Dioxide in Water (1) | 3 | N/A | 2025/12/09 | CAM SOP-00219 | RSKSOP-175 m |
| Colour | 3 | N/A | 2025/12/05 | ATL SOP 00020 | SM 24 2120C m |
| Conductance - water | 3 | N/A | 2025/12/04 | ATL SOP 00004 | SM 24 2510B m |
| TEH in Water (PIRI) | 1 | 2025/12/01 | 2025/12/02 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 2 | 2025/12/02 | 2025/12/02 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Fluoride | 3 | N/A | 2025/12/04 | ATL SOP 00043 | SM 24 4500-F- C m |
| Dissolved Gases in Water in mg/L units (1) | 3 | N/A | 2025/11/28 | | |
| Hardness (calculated as CaCO3) | 3 | N/A | 2025/12/04 | ATL SOP 00048 | Auto Calc |
| Mercury - Dissolved (CVAA,LL) | 3 | 2025/12/05 | 2025/12/05 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 2 | 2025/12/04 | 2025/12/04 | ATL SOP 00026 | EPA 245.1 R3 m |
| Mercury - Total (CVAA,LL) | 1 | 2025/12/05 | 2025/12/05 | ATL SOP 00026 | EPA 245.1 R3 m |
| Metals Water Diss. MS- Field Filtered | 3 | N/A | 2025/12/04 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Total MS | 3 | 2025/12/03 | 2025/12/03 | ATL SOP 00058 | EPA 6020B R2 m |
| Ion Balance (% Difference) | 3 | N/A | 2025/12/05 | N/A | Auto Calc. |
| Anion and Cation Sum | 3 | N/A | 2025/12/05 | N/A | Auto Calc. |
| Nitrogen Ammonia - water | 3 | N/A | 2025/12/04 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 3 | N/A | 2025/12/05 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite | 3 | N/A | 2025/12/05 | ATL SOP 00017 | SM 24 4500-NO2- B m |
| Nitrogen - Nitrate (as N) | 3 | N/A | 2025/12/05 | ATL SOP 00018 | ASTM D3867-16 |
| PAH in Water by GC/MS (SIM) | 3 | 2025/12/03 | 2025/12/04 | ATL SOP 00103 | EPA 8270E R6 m |
| pH (2) | 3 | N/A | 2025/12/04 | ATL SOP 00003 | SM 24 4500-H+ B m |
| Phosphorus - ortho | 3 | N/A | 2025/12/05 | ATL SOP 00021 | SM 24 4500-P E m |
| Sat. pH and Langelier Index (@ 20C) | 3 | N/A | 2025/12/05 | ATL SOP 00049 | Auto Calc. |
| Sat. pH and Langelier Index (@ 4C) | 3 | N/A | 2025/12/05 | ATL SOP 00049 | Auto Calc. |
| Reactive Silica | 3 | N/A | 2025/12/05 | ATL SOP 00022 | EPA 366.0 m |
| Sulphate | 3 | N/A | 2025/12/05 | ATL SOP 00023 | ASTM D516-16 m |
| Total Dissolved Solids (TDS calc) | 3 | N/A | 2025/12/05 | N/A | Auto Calc. |



Bureau Veritas 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvna.com

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/12/10**
Report #: R8666339
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5F0942**
**Received: 2025/11/28, 09:43**

Sample Matrix: Water
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Organic carbon - Total (TOC) (3) | 1 | N/A | 2025/12/04 | ATL SOP 00203 | SM 24 5310B m |
| Organic carbon - Total (TOC) (3) | 2 | N/A | 2025/12/05 | ATL SOP 00203 | SM 24 5310B m |
| ModTPH (T1) Calc. for Water | 3 | N/A | 2025/12/03 | N/A | Atl. RBCA v3 m |
| Total Suspended Solids | 3 | 2025/12/03 | 2025/12/05 | ATL SOP 00007 | SM 24 2540D m |
| Turbidity | 3 | N/A | 2025/12/05 | ATL SOP 00011 | EPA 180.1 R2 m |
| Volatile Organic Compounds in Water | 3 | N/A | 2025/12/02 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 3 | N/A | 2025/12/02 | ATL SOP 00130 | Atl. RBCA v3.1 m |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: 24-10333 TASK 7
Your Project #: 24-10333
Site Location: BOTWOOD
Your C.O.C. #: N/A

**Attention: Carolyn Antsey-Moore**

Strum Environmental
St. John's, NL
#E120 - 120 Torbay Rd.
St. John's , NL
Canada A1A 2G9

**Report Date: 2025/12/10**
Report #: R8666339
Version: 2 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C5F0942**
**Received: 2025/11/28, 09:43**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Michelle Huth, Project Manager
Email: michelle.brescacin@bureauveritas.com
Phone# (902) 420-0203
==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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Bureau Veritas Job #: C5F0942
Report Date: 2025/12/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BM

## RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | AXUV91 | | AXUV92 | | AXUV93 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | | 2025/11/26 09:46 | | 2025/11/26 10:10 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | QC Batch | WQM-5 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | |
| Anion Sum | me/L | 0.380 | A063563 | 0.340 | A063563 | 0.350 | N/A | A063563 |
| Bicarb. Alkalinity (calc. as CaCO3) | mg/L | 13 | A063552 | 11 | A063552 | 12 | 1.0 | A063552 |
| Calculated TDS | mg/L | 27 | A063573 | 25 | A063573 | 25 | 1.0 | A063573 |
| Carb. Alkalinity (calc. as CaCO3) | mg/L | <1.0 | A063552 | <1.0 | A063552 | <1.0 | 1.0 | A063552 |
| Cation Sum | me/L | 0.480 | A063563 | 0.460 | A063563 | 0.470 | N/A | A063563 |
| Hardness (CaCO3) | mg/L | 18 | A063911 | 16 | A063911 | 17 | 1.0 | A063911 |
| Ion Balance (% Difference) | % | 11.6 | A063560 | 15.0 | A063560 | 14.6 | N/A | A063560 |
| Langelier Index (@ 20C) | N/A | -2.41 | A063568 | -2.59 | A063568 | -2.48 | | A063568 |
| Langelier Index (@ 4C) | N/A | -2.66 | A063570 | -2.84 | A063570 | -2.74 | | A063570 |
| Nitrate (N) | mg/L | 0.23 | A063850 | 0.16 | A063850 | 0.17 | 0.050 | A063850 |
| Saturation pH (@ 20C) | N/A | 9.44 | A063568 | 9.57 | A063568 | 9.51 | | A063568 |
| Saturation pH (@ 4C) | N/A | 9.69 | A063570 | 9.82 | A063570 | 9.76 | | A063570 |
| **Inorganics** | | | | | | | | |
| Total Alkalinity (Total as CaCO3) | mg/L | 13 | A067217 | 11 | A067217 | 12 | 2.0 | A067217 |
| Dissolved Chloride (Cl-) | mg/L | 3.7 | A067930 | 4.2 | A067930 | 3.8 | 1.0 | A067930 |
| Colour | TCU | 75 | A068035 | 83 | A068035 | 81 | 5.0 | A068035 |
| Dissolved Fluoride (F-) | mg/L | <0.10 | A067218 | <0.10 | A067218 | <0.10 | 0.10 | A067218 |
| Nitrate + Nitrite (N) | mg/L | 0.23 | A068038 | 0.16 | A068038 | 0.17 | 0.050 | A068038 |
| Nitrite (N) | mg/L | <0.010 | A068040 | <0.010 | A068040 | <0.010 | 0.010 | A068040 |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | A067515 | 0.058 | A067515 | 0.060 | 0.050 | A067515 |
| Total Organic Carbon (C) | mg/L | 11 | A067121 | 13 | A067968 | 12 | 0.50 | A067121 |
| Orthophosphate (P) | mg/L | <0.010 | A068036 | <0.010 | A068036 | <0.010 | 0.010 | A068036 |
| pH | pH | 7.02 | A067214 | 6.99 | A067214 | 7.03 | | A067214 |
| Reactive Silica (SiO2) | mg/L | 5.2 | A068033 | 4.5 | A068033 | 4.7 | 0.50 | A068033 |
| Total Suspended Solids | mg/L | <1.0 | A066309 | 1.2 | A066309 | <1.0 | 1.0 | A066309 |
| Dissolved Sulphate (SO4) | mg/L | <2.0 | A068032 | <2.0 | A068032 | <2.0 | 2.0 | A068032 |
| Turbidity | NTU | 1.2 | A067562 | 1.1 | A067562 | 0.81 | 0.10 | A067562 |
| Conductivity | uS/cm | 47 | A067216 | 43 | A067216 | 44 | 1.0 | A067216 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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Bureau Veritas Job #: C5F0942
Report Date: 2025/12/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BM

## MERCURY BY COLD VAPOUR AA (WATER)

| Bureau Veritas ID | | AXUV91 | | AXUV92 | | | AXUV92 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | | 2025/11/26 09:46 | | | 2025/11/26 09:46 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | WQM-3 | QC Batch | WQM-4 | RDL | QC Batch | WQM-4 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | A066609 | <0.013 | 0.013 | A067454 | <0.013 | 0.013 | A067454 |
| Total Mercury (Hg) | ug/L | <0.013 | A066596 | <0.013 | 0.013 | A066596 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

| Bureau Veritas ID | | AXUV93 | | | AXUV93 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 10:10 | | | 2025/11/26 10:10 | | |
| COC Number | | N/A | | | N/A | | |
| | UNITS | WQM-5 | RDL | QC Batch | WQM-5 Lab-Dup | RDL | QC Batch |
| **Metals** | | | | | | | |
| Dissolved Mercury (Hg) | ug/L | <0.013 | 0.013 | A067454 | | | |
| Total Mercury (Hg) | ug/L | <0.013 | 0.013 | A067863 | <0.013 | 0.013 | A067863 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AXUV91 | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Metals** | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 120 | 120 | 130 | 5.0 | A067117 |
| Total Aluminum (Al) | ug/L | 120 | 130 | 130 | 5.0 | A066183 |
| Dissolved Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A067117 |
| Total Antimony (Sb) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A066183 |
| Dissolved Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A067117 |
| Total Arsenic (As) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A066183 |
| Dissolved Barium (Ba) | ug/L | 6.8 | 7.3 | 8.9 | 1.0 | A067117 |
| Total Barium (Ba) | ug/L | 5.9 | 7.3 | 8.5 | 1.0 | A066183 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A067117 |
| Total Beryllium (Be) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A066183 |
| Dissolved Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Bismuth (Bi) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Boron (B) | ug/L | <50 | <50 | <50 | 50 | A067117 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | 50 | A066183 |
| Dissolved Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A067117 |
| Total Cadmium (Cd) | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066183 |
| Dissolved Calcium (Ca) | ug/L | 5400 | 4800 | 5100 | 100 | A067117 |
| Total Calcium (Ca) | ug/L | 5100 | 5000 | 5100 | 100 | A066183 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A067117 |
| Total Chromium (Cr) | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A066183 |
| Dissolved Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | A067117 |
| Total Cobalt (Co) | ug/L | <0.40 | <0.40 | <0.40 | 0.40 | A066183 |
| Dissolved Copper (Cu) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A067117 |
| Total Copper (Cu) | ug/L | <0.50 | 0.59 | <0.50 | 0.50 | A066183 |
| Dissolved Iron (Fe) | ug/L | 160 | 140 | 140 | 50 | A067117 |
| Total Iron (Fe) | ug/L | 180 | 180 | 170 | 50 | A066183 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A067117 |
| Total Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A066183 |
| Dissolved Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Lithium (Li) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Magnesium (Mg) | ug/L | 1000 | 980 | 1000 | 100 | A067117 |
| Total Magnesium (Mg) | ug/L | 980 | 1000 | 1000 | 100 | A066183 |
| Dissolved Manganese (Mn) | ug/L | 17 | 7.5 | 9.8 | 2.0 | A067117 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

## ELEMENTS BY ICP/MS (WATER)

| Bureau Veritas ID | | AXUV91 | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| Total Manganese (Mn) | ug/L | 18 | 10 | 13 | 2.0 | A066183 |
| Dissolved Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Molybdenum (Mo) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Nickel (Ni) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | A067117 |
| Total Phosphorus (P) | ug/L | <100 | <100 | <100 | 100 | A066183 |
| Dissolved Potassium (K) | ug/L | 160 | 210 | 220 | 100 | A067117 |
| Total Potassium (K) | ug/L | 140 | 270 | 190 | 100 | A066183 |
| Dissolved Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A067117 |
| Total Selenium (Se) | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A066183 |
| Dissolved Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A067117 |
| Total Silver (Ag) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A066183 |
| Dissolved Sodium (Na) | ug/L | 2600 | 2800 | 2700 | 100 | A067117 |
| Total Sodium (Na) | ug/L | 2400 | 2800 | 2600 | 100 | A066183 |
| Dissolved Strontium (Sr) | ug/L | 19 | 18 | 19 | 2.0 | A067117 |
| Total Strontium (Sr) | ug/L | 17 | 18 | 18 | 2.0 | A066183 |
| Dissolved Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A067117 |
| Total Thallium (Tl) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A066183 |
| Dissolved Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Tin (Sn) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Titanium (Ti) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Titanium (Ti) | ug/L | <2.0 | 2.0 | 2.1 | 2.0 | A066183 |
| Dissolved Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A067117 |
| Total Uranium (U) | ug/L | <0.10 | <0.10 | <0.10 | 0.10 | A066183 |
| Dissolved Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A067117 |
| Total Vanadium (V) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A066183 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | A067117 |
| Total Zinc (Zn) | ug/L | <5.0 | <5.0 | <5.0 | 5.0 | A066183 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C5F0942
Report Date: 2025/12/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BM

## PERMANENT GASES (WATER)

| Bureau Veritas ID | | AXUV91 | | | AXUV91 | | | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | | | 2025/11/26 09:15 | | | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| COC Number | | N/A | | | N/A | | | N/A | N/A | | |
| | UNITS | WQM-3 | RDL | QC Batch | WQM-3 Lab-Dup | RDL | QC Batch | WQM-4 | WQM-5 | RDL | QC Batch |
| **Fixed Gases** | | | | | | | | | | | |
| Carbon Dioxide | L/m3 | 2.8 | 0.6 | A070594 | 2.8 | 0.6 | A070594 | 4.8 | 3.5 | 0.6 | A070594 |
| Calculated Carbon Dioxide | mg/L | 5 | 1 | A063939 | | | | 9 | 6 | 1 | A063939 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



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## SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

| Bureau Veritas ID | | AXUV91 | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Polyaromatic Hydrocarbons** | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | A066269 |
| 2-Methylnaphthalene | ug/L | <0.050 | <0.050 | <0.050 | 0.050 | A066269 |
| Acenaphthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Acenaphthylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(a)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(a)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(b)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(b/j)fluoranthene | ug/L | <0.020 | <0.020 | <0.020 | 0.020 | A063978 |
| Benzo(g,h,i)perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(j)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Benzo(k)fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Chrysene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Dibenzo(a,h)anthracene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Fluoranthene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Fluorene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Naphthalene | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | A066269 |
| Perylene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| Phenanthrene | ug/L | 0.012 | 0.014 | 0.012 | 0.010 | A066269 |
| Pyrene | ug/L | <0.010 | <0.010 | <0.010 | 0.010 | A066269 |
| **Surrogate Recovery (%)** | | | | | | |
| D10-Anthracene | % | 84 | 84 | 86 | | A066269 |
| D14-Terphenyl | % | 87 (1) | 87 (1) | 90 (1) | | A066269 |
| D8-Acenaphthylene | % | 78 | 77 | 79 | | A066269 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH sample contained sediment.



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## VOLATILE ORGANICS BY GC/MS (WATER)

| Bureau Veritas ID | | AXUV91 | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2025/11/26 09:15 | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| COC Number | | N/A | N/A | N/A | | |
| | UNITS | WQM-3 | WQM-4 | WQM-5 | RDL | QC Batch |
| **Volatile Organics** | | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A065781 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | <0.20 | 0.20 | A065781 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| cis-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Bromoform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Bromomethane | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Chloroethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A065781 |
| Chloroform | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Chloromethane | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A065781 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | <3.0 | 3.0 | A065781 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A065781 |
| Styrene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Toluene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Trichloroethylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | <8.0 | 8.0 | A065781 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BM

## VOLATILE ORGANICS BY GC/MS (WATER)

| **Bureau Veritas ID** | | AXUV91 | AXUV92 | AXUV93 | | |
|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/11/26 09:15 | 2025/11/26 09:46 | 2025/11/26 10:10 | | |
| **COC Number** | | N/A | N/A | N/A | | |
| | **UNITS** | **WQM-3** | **WQM-4** | **WQM-5** | **RDL** | **QC Batch** |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | <0.50 | 0.50 | A065781 |
| o-Xylene | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | <2.0 | 2.0 | A065781 |
| Total Xylenes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | <1.0 | 1.0 | A065781 |
| **Surrogate Recovery (%)** | | | | | | |
| 4-Bromofluorobenzene | % | 95 | 97 | 97 | | A065781 |
| D4-1,2-Dichloroethane | % | 115 | 107 | 112 | | A065781 |
| D8-Toluene | % | 96 | 92 | 102 | | A065781 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

## ATLANTIC RBCA HYDROCARBONS (WATER)

| **Bureau Veritas ID** | | AXUV91 | | AXUV92 | | AXUV93 | | |
|---|---|---|---|---|---|---|---|---|
| **Sampling Date** | | 2025/11/26 09:15 | | 2025/11/26 09:46 | | 2025/11/26 10:10 | | |
| **COC Number** | | N/A | | N/A | | N/A | | |
| | **UNITS** | **WQM-3** | **QC Batch** | **WQM-4** | **QC Batch** | **WQM-5** | **RDL** | **QC Batch** |
| **Petroleum Hydrocarbons** | | | | | | | | |
| Benzene | mg/L | <0.0010 | A065229 | <0.0010 | A065229 | <0.0010 | 0.0010 | A065229 |
| Toluene | mg/L | <0.0010 | A065229 | <0.0010 | A065229 | <0.0010 | 0.0010 | A065229 |
| Ethylbenzene | mg/L | <0.0010 | A065229 | <0.0010 | A065229 | <0.0010 | 0.0010 | A065229 |
| Total Xylenes | mg/L | <0.0020 | A065229 | <0.0020 | A065229 | <0.0020 | 0.0020 | A065229 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | A065229 | <0.090 | A065229 | <0.090 | 0.090 | A065229 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | A065354 | <0.050 | A064794 | <0.050 | 0.050 | A065354 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | A065354 | <0.050 | A064794 | <0.050 | 0.050 | A065354 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | A065354 | <0.090 | A064794 | <0.090 | 0.090 | A065354 |
| Modified TPH (Tier1) | mg/L | <0.090 | A063687 | <0.090 | A063687 | <0.090 | 0.090 | A063687 |
| Reached Baseline at C32 | mg/L | NA | A065354 | NA | A064794 | NA | N/A | A065354 |
| Hydrocarbon Resemblance | mg/L | NA | A065354 | NA | A064794 | NA | N/A | A065354 |
| **Surrogate Recovery (%)** | | | | | | | | |
| Isobutylbenzene - Extractable | % | 86 | A065354 | 95 | A064794 | 96 | | A065354 |
| n-Dotriacontane - Extractable | % | 94 | A065354 | 98 | A064794 | 96 | | A065354 |
| Isobutylbenzene - Volatile | % | 100 | A065229 | 100 | A065229 | 100 | | A065229 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|---|---|
| Package 1 | 5.3°C |

Sample AXUV91 [WQM-3] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AXUV92 [WQM-4] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample AXUV93 [WQM-5] : RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**



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## QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A064794 | MGN | Matrix Spike | Isobutylbenzene - Extractable | 2025/12/02 | | 101 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 110 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | | 94 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | | 106 | % | 70 - 130 |
| A064794 | MGN | Spiked Blank | Isobutylbenzene - Extractable | 2025/12/02 | | 90 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | | 105 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | | 102 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | | 114 | % | 70 - 130 |
| A064794 | MGN | Method Blank | Isobutylbenzene - Extractable | 2025/12/02 | | 98 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 99 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | <0.090 | | mg/L | |
| A064794 | MGN | RPD | >C10-C16 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| A065229 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2025/12/02 | | 105 | % | 70 - 130 |
| | | | Benzene | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | Toluene | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/12/02 | | 95 | % | 70 - 130 |
| | | | Total Xylenes | 2025/12/02 | | 100 | % | 70 - 130 |
| A065229 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | Benzene | 2025/12/02 | | 102 | % | 70 - 130 |
| | | | Toluene | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/12/02 | | 99 | % | 70 - 130 |
| | | | Total Xylenes | 2025/12/02 | | 100 | % | 70 - 130 |
| A065229 | THL | Method Blank | Isobutylbenzene - Volatile | 2025/12/02 | | 99 | % | 70 - 130 |
| | | | Benzene | 2025/12/02 | <0.0010 | | mg/L | |
| | | | Toluene | 2025/12/02 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2025/12/02 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2025/12/02 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2025/12/02 | <0.090 | | mg/L | |
| A065229 | THL | RPD | Benzene | 2025/12/02 | NC | | % | 40 |
| | | | Toluene | 2025/12/02 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/12/02 | NC | | % | 40 |
| | | | Total Xylenes | 2025/12/02 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2025/12/02 | NC | | % | 40 |
| A065354 | RDE | Matrix Spike [AXUV93-03] | Isobutylbenzene - Extractable | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | | 84 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | | 88 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | | 82 | % | 70 - 130 |
| A065354 | RDE | Spiked Blank | Isobutylbenzene - Extractable | 2025/12/02 | | 91 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 111 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | | 93 | % | 70 - 130 |
| A065354 | RDE | Method Blank | Isobutylbenzene - Extractable | 2025/12/02 | | 89 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2025/12/02 | | 110 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | >C10-C16 Hydrocarbons | 2025/12/02 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | <0.090 | | mg/L | |
| A065354 | RDE | RPD | >C10-C16 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2025/12/02 | NC | | % | 40 |
| A065781 | A1M | Matrix Spike | 4-Bromofluorobenzene | 2025/12/02 | | 96 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/12/02 | | 122 | % | 70 - 130 |
| | | | D8-Toluene | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/12/02 | | 107 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/12/02 | | 108 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/12/02 | | 116 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/12/02 | | 123 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/12/02 | | 117 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/12/02 | | 108 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/12/02 | | 90 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/12/02 | | 101 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/12/02 | | 91 | % | 70 - 130 |
| | | | Benzene | 2025/12/02 | | 102 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/12/02 | | 107 | % | 70 - 130 |
| | | | Bromoform | 2025/12/02 | | 113 | % | 70 - 130 |
| | | | Bromomethane | 2025/12/02 | | 108 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/12/02 | | 102 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/12/02 | | 91 | % | 70 - 130 |
| | | | Chloroethane | 2025/12/02 | | 96 | % | 60 - 140 |
| | | | Chloroform | 2025/12/02 | | 105 | % | 70 - 130 |
| | | | Chloromethane | 2025/12/02 | | 103 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/12/02 | | 110 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/12/02 | | 82 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/12/02 | | 103 | % | 70 - 130 |
| | | | Styrene | 2025/12/02 | | 92 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/12/02 | | 87 | % | 70 - 130 |
| | | | Toluene | 2025/12/02 | | 90 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/12/02 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/12/02 | | 98 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/12/02 | | 98 | % | 60 - 140 |
| | | | o-Xylene | 2025/12/02 | | 91 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/12/02 | | 85 | % | 70 - 130 |
| A065781 | A1M | Spiked Blank | 4-Bromofluorobenzene | 2025/12/02 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/12/02 | | 110 | % | 70 - 130 |
| | | | D8-Toluene | 2025/12/02 | | 89 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/12/02 | | 113 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2025/12/02 | | 112 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2025/12/02 | | 101 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2025/12/02 | | 102 | % | 70 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | 1,1,2,2-Tetrachloroethane | 2025/12/02 | | 99 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2025/12/02 | | 111 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2025/12/02 | | 103 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2025/12/02 | | 112 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2025/12/02 | | 94 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2025/12/02 | | 93 | % | 70 - 130 |
| | | | Benzene | 2025/12/02 | | 92 | % | 70 - 130 |
| | | | Bromodichloromethane | 2025/12/02 | | 91 | % | 70 - 130 |
| | | | Bromoform | 2025/12/02 | | 113 | % | 70 - 130 |
| | | | Bromomethane | 2025/12/02 | | 111 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2025/12/02 | | 103 | % | 70 - 130 |
| | | | Chlorobenzene | 2025/12/02 | | 103 | % | 70 - 130 |
| | | | Chloroethane | 2025/12/02 | | 99 | % | 60 - 140 |
| | | | Chloroform | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | Chloromethane | 2025/12/02 | | 104 | % | 60 - 140 |
| | | | Dibromochloromethane | 2025/12/02 | | 99 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2025/12/02 | | 106 | % | 70 - 130 |
| | | | Ethylbenzene | 2025/12/02 | | 96 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2025/12/02 | | 108 | % | 70 - 130 |
| | | | Styrene | 2025/12/02 | | 97 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2025/12/02 | | 87 | % | 70 - 130 |
| | | | Toluene | 2025/12/02 | | 86 | % | 70 - 130 |
| | | | Trichloroethylene | 2025/12/02 | | 83 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/12/02 | | 99 | % | 60 - 140 |
| | | | Vinyl Chloride | 2025/12/02 | | 102 | % | 60 - 140 |
| | | | o-Xylene | 2025/12/02 | | 94 | % | 70 - 130 |
| | | | p+m-Xylene | 2025/12/02 | | 97 | % | 70 - 130 |
| A065781 | A1M | Method Blank | 4-Bromofluorobenzene | 2025/12/02 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2025/12/02 | | 112 | % | 70 - 130 |
| | | | D8-Toluene | 2025/12/02 | | 96 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2025/12/02 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2025/12/02 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2025/12/02 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2025/12/02 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2025/12/02 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2025/12/02 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2025/12/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2025/12/02 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2025/12/02 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2025/12/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2025/12/02 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2025/12/02 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2025/12/02 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2025/12/02 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Benzene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2025/12/02 | <1.0 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Bromoform | 2025/12/02 | <1.0 | | ug/L | |
| | | | Bromomethane | 2025/12/02 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2025/12/02 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Chloroethane | 2025/12/02 | <8.0 | | ug/L | |
| | | | Chloroform | 2025/12/02 | <1.0 | | ug/L | |
| | | | Chloromethane | 2025/12/02 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2025/12/02 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2025/12/02 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2025/12/02 | <2.0 | | ug/L | |
| | | | Styrene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Toluene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2025/12/02 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2025/12/02 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2025/12/02 | <0.50 | | ug/L | |
| | | | o-Xylene | 2025/12/02 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2025/12/02 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2025/12/02 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2025/12/02 | <1.0 | | ug/L | |
| A065781 | A1M | RPD | 1,1-Dichloroethane | 2025/12/02 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2025/12/02 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2025/12/02 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2025/12/02 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2025/12/02 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2025/12/02 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2025/12/02 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2025/12/02 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2025/12/02 | 3.6 | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2025/12/02 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2025/12/02 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2025/12/02 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2025/12/02 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2025/12/02 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2025/12/02 | 2.7 | | % | 40 |
| | | | Benzene | 2025/12/02 | NC | | % | 40 |
| | | | Bromodichloromethane | 2025/12/02 | NC | | % | 40 |
| | | | Bromoform | 2025/12/02 | NC | | % | 40 |
| | | | Bromomethane | 2025/12/02 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2025/12/02 | NC | | % | 40 |
| | | | Chlorobenzene | 2025/12/02 | 3.8 | | % | 40 |
| | | | Chloroethane | 2025/12/02 | NC | | % | 40 |
| | | | Chloroform | 2025/12/02 | NC | | % | 40 |
| | | | Chloromethane | 2025/12/02 | NC | | % | 40 |
| | | | Dibromochloromethane | 2025/12/02 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2025/12/02 | NC | | % | 40 |
| | | | Ethylbenzene | 2025/12/02 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2025/12/02 | NC | | % | 40 |
| | | | Styrene | 2025/12/02 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2025/12/02 | NC | | % | 40 |
| | | | Toluene | 2025/12/02 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Trichloroethylene | 2025/12/02 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2025/12/02 | NC | | % | 40 |
| | | | Vinyl Chloride | 2025/12/02 | NC | | % | 40 |
| | | | o-Xylene | 2025/12/02 | NC | | % | 40 |
| | | | p+m-Xylene | 2025/12/02 | NC | | % | 40 |
| | | | Total Xylenes | 2025/12/02 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2025/12/02 | NC | | % | 40 |
| A066183 | MOA | Matrix Spike | Total Aluminum (Al) | 2025/12/03 | | 97 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/12/03 | | 109 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/12/03 | | 103 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/12/03 | | 100 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/12/03 | | 98 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/12/03 | | 110 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/12/03 | | NC | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/12/03 | | 100 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/12/03 | | 101 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/12/03 | | 100 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/12/03 | | 97 | % | 80 - 120 |
| | | | Total Lithium (Li) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/12/03 | | NC | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/12/03 | | 101 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/12/03 | | 112 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/12/03 | | 100 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/12/03 | | 101 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/12/03 | | 101 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/12/03 | | NC | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/12/03 | | NC | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/12/03 | | 99 | % | 80 - 120 |
| A066183 | MOA | Spiked Blank | Total Aluminum (Al) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Antimony (Sb) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Arsenic (As) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Barium (Ba) | 2025/12/03 | | 101 | % | 80 - 120 |
| | | | Total Beryllium (Be) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Bismuth (Bi) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Boron (B) | 2025/12/03 | | 109 | % | 80 - 120 |
| | | | Total Cadmium (Cd) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Calcium (Ca) | 2025/12/03 | | 103 | % | 80 - 120 |
| | | | Total Chromium (Cr) | 2025/12/03 | | 105 | % | 80 - 120 |
| | | | Total Cobalt (Co) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Copper (Cu) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Iron (Fe) | 2025/12/03 | | 108 | % | 80 - 120 |
| | | | Total Lead (Pb) | 2025/12/03 | | 102 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Lithium (Li) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Magnesium (Mg) | 2025/12/03 | | 111 | % | 80 - 120 |
| | | | Total Manganese (Mn) | 2025/12/03 | | 105 | % | 80 - 120 |
| | | | Total Molybdenum (Mo) | 2025/12/03 | | 110 | % | 80 - 120 |
| | | | Total Nickel (Ni) | 2025/12/03 | | 105 | % | 80 - 120 |
| | | | Total Phosphorus (P) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Potassium (K) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Selenium (Se) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Silver (Ag) | 2025/12/03 | | 102 | % | 80 - 120 |
| | | | Total Sodium (Na) | 2025/12/03 | | 106 | % | 80 - 120 |
| | | | Total Strontium (Sr) | 2025/12/03 | | 104 | % | 80 - 120 |
| | | | Total Thallium (Tl) | 2025/12/03 | | 105 | % | 80 - 120 |
| | | | Total Tin (Sn) | 2025/12/03 | | 105 | % | 80 - 120 |
| | | | Total Titanium (Ti) | 2025/12/03 | | 108 | % | 80 - 120 |
| | | | Total Uranium (U) | 2025/12/03 | | 108 | % | 80 - 120 |
| | | | Total Vanadium (V) | 2025/12/03 | | 107 | % | 80 - 120 |
| | | | Total Zinc (Zn) | 2025/12/03 | | 106 | % | 80 - 120 |
| A066183 | MOA | Method Blank | Total Aluminum (Al) | 2025/12/03 | <5.0 | | ug/L | |
| | | | Total Antimony (Sb) | 2025/12/03 | <1.0 | | ug/L | |
| | | | Total Arsenic (As) | 2025/12/03 | <1.0 | | ug/L | |
| | | | Total Barium (Ba) | 2025/12/03 | <1.0 | | ug/L | |
| | | | Total Beryllium (Be) | 2025/12/03 | <0.10 | | ug/L | |
| | | | Total Bismuth (Bi) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Boron (B) | 2025/12/03 | <50 | | ug/L | |
| | | | Total Cadmium (Cd) | 2025/12/03 | <0.010 | | ug/L | |
| | | | Total Calcium (Ca) | 2025/12/03 | <100 | | ug/L | |
| | | | Total Chromium (Cr) | 2025/12/03 | <1.0 | | ug/L | |
| | | | Total Cobalt (Co) | 2025/12/03 | <0.40 | | ug/L | |
| | | | Total Copper (Cu) | 2025/12/03 | <0.50 | | ug/L | |
| | | | Total Iron (Fe) | 2025/12/03 | <50 | | ug/L | |
| | | | Total Lead (Pb) | 2025/12/03 | <0.50 | | ug/L | |
| | | | Total Lithium (Li) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Magnesium (Mg) | 2025/12/03 | <100 | | ug/L | |
| | | | Total Manganese (Mn) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Molybdenum (Mo) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Nickel (Ni) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Phosphorus (P) | 2025/12/03 | <100 | | ug/L | |
| | | | Total Potassium (K) | 2025/12/03 | <100 | | ug/L | |
| | | | Total Selenium (Se) | 2025/12/03 | <0.50 | | ug/L | |
| | | | Total Silver (Ag) | 2025/12/03 | <0.10 | | ug/L | |
| | | | Total Sodium (Na) | 2025/12/03 | <100 | | ug/L | |
| | | | Total Strontium (Sr) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Thallium (Tl) | 2025/12/03 | <0.10 | | ug/L | |
| | | | Total Tin (Sn) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Titanium (Ti) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Uranium (U) | 2025/12/03 | <0.10 | | ug/L | |
| | | | Total Vanadium (V) | 2025/12/03 | <2.0 | | ug/L | |
| | | | Total Zinc (Zn) | 2025/12/03 | <5.0 | | ug/L | |
| A066183 | MOA | RPD | Total Aluminum (Al) | 2025/12/04 | 3.4 | | % | 20 |
| | | | Total Antimony (Sb) | 2025/12/04 | NC | | % | 20 |
| | | | Total Arsenic (As) | 2025/12/04 | 2.5 | | % | 20 |
| | | | Total Barium (Ba) | 2025/12/04 | 2.4 | | % | 20 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Total Boron (B) | 2025/12/04 | 6.0 | | % | 20 |
| | | | Total Cadmium (Cd) | 2025/12/04 | 0.29 | | % | 20 |
| | | | Total Calcium (Ca) | 2025/12/04 | 1.0 | | % | 20 |
| | | | Total Chromium (Cr) | 2025/12/04 | NC | | % | 20 |
| | | | Total Copper (Cu) | 2025/12/04 | 1.3 | | % | 20 |
| | | | Total Iron (Fe) | 2025/12/04 | 11 | | % | 20 |
| | | | Total Lead (Pb) | 2025/12/04 | NC | | % | 20 |
| | | | Total Magnesium (Mg) | 2025/12/04 | 3.8 | | % | 20 |
| | | | Total Manganese (Mn) | 2025/12/04 | 4.8 | | % | 20 |
| | | | Total Nickel (Ni) | 2025/12/04 | NC | | % | 20 |
| | | | Total Phosphorus (P) | 2025/12/04 | NC | | % | 20 |
| | | | Total Potassium (K) | 2025/12/04 | 1.8 | | % | 20 |
| | | | Total Selenium (Se) | 2025/12/04 | NC | | % | 20 |
| | | | Total Sodium (Na) | 2025/12/04 | 4.9 | | % | 20 |
| | | | Total Strontium (Sr) | 2025/12/04 | 2.9 | | % | 20 |
| | | | Total Uranium (U) | 2025/12/04 | 9.0 | | % | 20 |
| | | | Total Zinc (Zn) | 2025/12/04 | NC | | % | 20 |
| A066269 | EPA | Matrix Spike | D10-Anthracene | 2025/12/04 | | 97 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/12/04 | | 103 (1) | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/12/04 | | 94 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/12/04 | | 97 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/12/04 | | 101 | % | 50 - 130 |
| | | | Acenaphthene | 2025/12/04 | | 99 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/12/04 | | 110 | % | 50 - 130 |
| | | | Anthracene | 2025/12/04 | | 110 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/12/04 | | 108 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/12/04 | | 103 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/12/04 | | 101 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/12/04 | | 89 | % | 50 - 130 |
| | | | Benzo(j)fluoranthene | 2025/12/04 | | 103 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/12/04 | | 99 | % | 50 - 130 |
| | | | Chrysene | 2025/12/04 | | 109 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/12/04 | | 90 | % | 50 - 130 |
| | | | Fluoranthene | 2025/12/04 | | 107 | % | 50 - 130 |
| | | | Fluorene | 2025/12/04 | | 101 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/12/04 | | 92 | % | 50 - 130 |
| | | | Naphthalene | 2025/12/04 | | 96 | % | 50 - 130 |
| | | | Perylene | 2025/12/04 | | 98 | % | 50 - 130 |
| | | | Phenanthrene | 2025/12/04 | | 111 | % | 50 - 130 |
| | | | Pyrene | 2025/12/04 | | 107 | % | 50 - 130 |
| A066269 | EPA | Spiked Blank | D10-Anthracene | 2025/12/04 | | 95 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/12/04 | | 100 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/12/04 | | 92 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/12/04 | | 92 | % | 50 - 130 |
| | | | 2-Methylnaphthalene | 2025/12/04 | | 98 | % | 50 - 130 |
| | | | Acenaphthene | 2025/12/04 | | 97 | % | 50 - 130 |
| | | | Acenaphthylene | 2025/12/04 | | 105 | % | 50 - 130 |
| | | | Anthracene | 2025/12/04 | | 105 | % | 50 - 130 |
| | | | Benzo(a)anthracene | 2025/12/04 | | 101 | % | 50 - 130 |
| | | | Benzo(a)pyrene | 2025/12/04 | | 97 | % | 50 - 130 |
| | | | Benzo(b)fluoranthene | 2025/12/04 | | 96 | % | 50 - 130 |
| | | | Benzo(g,h,i)perylene | 2025/12/04 | | 89 | % | 50 - 130 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Benzo(j)fluoranthene | 2025/12/04 | | 99 | % | 50 - 130 |
| | | | Benzo(k)fluoranthene | 2025/12/04 | | 93 | % | 50 - 130 |
| | | | Chrysene | 2025/12/04 | | 105 | % | 50 - 130 |
| | | | Dibenzo(a,h)anthracene | 2025/12/04 | | 91 | % | 50 - 130 |
| | | | Fluoranthene | 2025/12/04 | | 101 | % | 50 - 130 |
| | | | Fluorene | 2025/12/04 | | 97 | % | 50 - 130 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/12/04 | | 90 | % | 50 - 130 |
| | | | Naphthalene | 2025/12/04 | | 92 | % | 50 - 130 |
| | | | Perylene | 2025/12/04 | | 95 | % | 50 - 130 |
| | | | Phenanthrene | 2025/12/04 | | 103 | % | 50 - 130 |
| | | | Pyrene | 2025/12/04 | | 101 | % | 50 - 130 |
| A066269 | EPA | Method Blank | D10-Anthracene | 2025/12/04 | | 83 | % | 50 - 130 |
| | | | D14-Terphenyl | 2025/12/04 | | 87 | % | 50 - 130 |
| | | | D8-Acenaphthylene | 2025/12/04 | | 80 | % | 50 - 130 |
| | | | 1-Methylnaphthalene | 2025/12/04 | <0.050 | | ug/L | |
| | | | 2-Methylnaphthalene | 2025/12/04 | <0.050 | | ug/L | |
| | | | Acenaphthene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Acenaphthylene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Anthracene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(a)anthracene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(a)pyrene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(b)fluoranthene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(g,h,i)perylene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(j)fluoranthene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Benzo(k)fluoranthene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Chrysene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Dibenzo(a,h)anthracene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Fluoranthene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Fluorene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Indeno(1,2,3-cd)pyrene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Naphthalene | 2025/12/04 | <0.20 | | ug/L | |
| | | | Perylene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Phenanthrene | 2025/12/04 | <0.010 | | ug/L | |
| | | | Pyrene | 2025/12/04 | <0.010 | | ug/L | |
| A066269 | EPA | RPD | 1-Methylnaphthalene | 2025/12/04 | NC | | % | 40 |
| | | | 2-Methylnaphthalene | 2025/12/04 | NC | | % | 40 |
| | | | Acenaphthene | 2025/12/04 | 9.4 | | % | 40 |
| | | | Acenaphthylene | 2025/12/04 | 13 | | % | 40 |
| | | | Anthracene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(a)anthracene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(a)pyrene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(b)fluoranthene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(g,h,i)perylene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(j)fluoranthene | 2025/12/04 | NC | | % | 40 |
| | | | Benzo(k)fluoranthene | 2025/12/04 | NC | | % | 40 |
| | | | Chrysene | 2025/12/04 | NC | | % | 40 |
| | | | Dibenzo(a,h)anthracene | 2025/12/04 | NC | | % | 40 |
| | | | Fluoranthene | 2025/12/04 | NC | | % | 40 |
| | | | Fluorene | 2025/12/04 | NC | | % | 40 |
| | | | Indeno(1,2,3-cd)pyrene | 2025/12/04 | NC | | % | 40 |
| | | | Naphthalene | 2025/12/04 | NC | | % | 40 |
| | | | Perylene | 2025/12/04 | NC | | % | 40 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Phenanthrene | 2025/12/04 | NC | | % | 40 |
| | | | Pyrene | 2025/12/04 | NC | | % | 40 |
| A066309 | RD4 | QC Standard | Total Suspended Solids | 2025/12/05 | | 98 | % | 80 - 120 |
| A066309 | RD4 | Method Blank | Total Suspended Solids | 2025/12/05 | <1.0 | | mg/L | |
| A066309 | RD4 | RPD | Total Suspended Solids | 2025/12/05 | 18 | | % | 20 |
| A066596 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/12/04 | | 100 | % | 80 - 120 |
| A066596 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/12/04 | | 98 | % | 80 - 120 |
| A066596 | JEP | Method Blank | Total Mercury (Hg) | 2025/12/04 | <0.013 | | ug/L | |
| A066596 | JEP | RPD | Total Mercury (Hg) | 2025/12/04 | NC | | % | 20 |
| A066609 | JEP | Matrix Spike | Dissolved Mercury (Hg) | 2025/12/05 | | 96 | % | 80 - 120 |
| A066609 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/12/05 | | 100 | % | 80 - 120 |
| A066609 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/12/05 | <0.013 | | ug/L | |
| A066609 | JEP | RPD | Dissolved Mercury (Hg) | 2025/12/05 | NC | | % | 20 |
| A067117 | MTZ | Matrix Spike | Dissolved Aluminum (Al) | 2025/12/04 | | 104 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/12/04 | | 96 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/12/04 | | 96 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Calcium (Ca) | 2025/12/04 | | 103 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/12/04 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/12/04 | | 104 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/12/04 | | 97 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/12/04 | | 108 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/12/04 | | 108 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/12/04 | | 108 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/12/04 | | 97 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/12/04 | | 103 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/12/04 | | 105 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/12/04 | | 102 | % | 80 - 120 |
| A067117 | MTZ | Spiked Blank | Dissolved Aluminum (Al) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Antimony (Sb) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Barium (Ba) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Beryllium (Be) | 2025/12/04 | | 94 | % | 80 - 120 |
| | | | Dissolved Bismuth (Bi) | 2025/12/04 | | 103 | % | 80 - 120 |
| | | | Dissolved Boron (B) | 2025/12/04 | | 97 | % | 80 - 120 |
| | | | Dissolved Cadmium (Cd) | 2025/12/04 | | 100 | % | 80 - 120 |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Calcium (Ca) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Chromium (Cr) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Cobalt (Co) | 2025/12/04 | | 98 | % | 80 - 120 |
| | | | Dissolved Copper (Cu) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Lithium (Li) | 2025/12/04 | | 96 | % | 80 - 120 |
| | | | Dissolved Magnesium (Mg) | 2025/12/04 | | 103 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Molybdenum (Mo) | 2025/12/04 | | 103 | % | 80 - 120 |
| | | | Dissolved Nickel (Ni) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Phosphorus (P) | 2025/12/04 | | 105 | % | 80 - 120 |
| | | | Dissolved Potassium (K) | 2025/12/04 | | 104 | % | 80 - 120 |
| | | | Dissolved Selenium (Se) | 2025/12/04 | | 99 | % | 80 - 120 |
| | | | Dissolved Silver (Ag) | 2025/12/04 | | 97 | % | 80 - 120 |
| | | | Dissolved Sodium (Na) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Strontium (Sr) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Thallium (Tl) | 2025/12/04 | | 102 | % | 80 - 120 |
| | | | Dissolved Tin (Sn) | 2025/12/04 | | 104 | % | 80 - 120 |
| | | | Dissolved Titanium (Ti) | 2025/12/04 | | 100 | % | 80 - 120 |
| | | | Dissolved Uranium (U) | 2025/12/04 | | 104 | % | 80 - 120 |
| | | | Dissolved Vanadium (V) | 2025/12/04 | | 101 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2025/12/04 | | 101 | % | 80 - 120 |
| A067117 | MTZ | Method Blank | Dissolved Aluminum (Al) | 2025/12/04 | <5.0 | | ug/L | |
| | | | Dissolved Antimony (Sb) | 2025/12/04 | <1.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2025/12/04 | <1.0 | | ug/L | |
| | | | Dissolved Barium (Ba) | 2025/12/04 | <1.0 | | ug/L | |
| | | | Dissolved Beryllium (Be) | 2025/12/04 | <0.10 | | ug/L | |
| | | | Dissolved Bismuth (Bi) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Boron (B) | 2025/12/04 | <50 | | ug/L | |
| | | | Dissolved Cadmium (Cd) | 2025/12/04 | <0.010 | | ug/L | |
| | | | Dissolved Calcium (Ca) | 2025/12/04 | <100 | | ug/L | |
| | | | Dissolved Chromium (Cr) | 2025/12/04 | <1.0 | | ug/L | |
| | | | Dissolved Cobalt (Co) | 2025/12/04 | <0.40 | | ug/L | |
| | | | Dissolved Copper (Cu) | 2025/12/04 | <0.50 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2025/12/04 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2025/12/04 | <0.50 | | ug/L | |
| | | | Dissolved Lithium (Li) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Magnesium (Mg) | 2025/12/04 | <100 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Molybdenum (Mo) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Nickel (Ni) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Phosphorus (P) | 2025/12/04 | <100 | | ug/L | |
| | | | Dissolved Potassium (K) | 2025/12/04 | <100 | | ug/L | |
| | | | Dissolved Selenium (Se) | 2025/12/04 | <0.50 | | ug/L | |
| | | | Dissolved Silver (Ag) | 2025/12/04 | <0.10 | | ug/L | |
| | | | Dissolved Sodium (Na) | 2025/12/04 | <100 | | ug/L | |
| | | | Dissolved Strontium (Sr) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Thallium (Tl) | 2025/12/04 | <0.10 | | ug/L | |
| | | | Dissolved Tin (Sn) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Titanium (Ti) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Uranium (U) | 2025/12/04 | <0.10 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| | | | Dissolved Vanadium (V) | 2025/12/04 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2025/12/04 | <5.0 | | ug/L | |
| A067117 | MTZ | RPD | Dissolved Aluminum (Al) | 2025/12/04 | 2.9 | | % | 20 |
| | | | Dissolved Antimony (Sb) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Arsenic (As) | 2025/12/04 | 4.0 | | % | 20 |
| | | | Dissolved Barium (Ba) | 2025/12/04 | 2.6 | | % | 20 |
| | | | Dissolved Beryllium (Be) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Bismuth (Bi) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Boron (B) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Cadmium (Cd) | 2025/12/04 | 14 | | % | 20 |
| | | | Dissolved Calcium (Ca) | 2025/12/04 | 0.41 | | % | 20 |
| | | | Dissolved Chromium (Cr) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Cobalt (Co) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Copper (Cu) | 2025/12/04 | 3.0 | | % | 20 |
| | | | Dissolved Iron (Fe) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Magnesium (Mg) | 2025/12/04 | 0.57 | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2025/12/04 | 2.0 | | % | 20 |
| | | | Dissolved Molybdenum (Mo) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Nickel (Ni) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Phosphorus (P) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Potassium (K) | 2025/12/04 | 1.3 | | % | 20 |
| | | | Dissolved Selenium (Se) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Silver (Ag) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Sodium (Na) | 2025/12/04 | 0.44 | | % | 20 |
| | | | Dissolved Strontium (Sr) | 2025/12/04 | 1.2 | | % | 20 |
| | | | Dissolved Thallium (Tl) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Tin (Sn) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Titanium (Ti) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Uranium (U) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Vanadium (V) | 2025/12/04 | NC | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2025/12/04 | NC | | % | 20 |
| A067121 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/12/04 | | 98 | % | 85 - 115 |
| A067121 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/12/04 | | 100 | % | 80 - 120 |
| A067121 | S6S | Method Blank | Total Organic Carbon (C) | 2025/12/04 | <0.50 | | mg/L | |
| A067121 | S6S | RPD | Total Organic Carbon (C) | 2025/12/04 | 0.24 | | % | 15 |
| A067214 | J1A | Spiked Blank | pH | 2025/12/04 | | 99 | % | 97 - 103 |
| A067214 | J1A | RPD | pH | 2025/12/04 | 0.17 | | % | N/A |
| A067216 | J1A | Spiked Blank | Conductivity | 2025/12/04 | | 100 | % | 80 - 120 |
| A067216 | J1A | Method Blank | Conductivity | 2025/12/04 | <1.0 | | uS/cm | |
| A067216 | J1A | RPD | Conductivity | 2025/12/04 | 0.22 | | % | 10 |
| A067217 | J1A | Spiked Blank | Total Alkalinity (Total as CaCO3) | 2025/12/04 | | 97 | % | 80 - 120 |
| A067217 | J1A | Method Blank | Total Alkalinity (Total as CaCO3) | 2025/12/04 | <2.0 | | mg/L | |
| A067217 | J1A | RPD | Total Alkalinity (Total as CaCO3) | 2025/12/04 | 11 | | % | 20 |
| A067218 | J1A | Matrix Spike | Dissolved Fluoride (F-) | 2025/12/04 | | 91 | % | 80 - 120 |
| A067218 | J1A | Spiked Blank | Dissolved Fluoride (F-) | 2025/12/04 | | 100 | % | 80 - 120 |
| A067218 | J1A | Method Blank | Dissolved Fluoride (F-) | 2025/12/04 | <0.10 | | mg/L | |
| A067218 | J1A | RPD | Dissolved Fluoride (F-) | 2025/12/04 | NC | | % | 20 |
| A067454 | JEP | Matrix Spike [AXUV93-09] | Dissolved Mercury (Hg) | 2025/12/05 | | 97 | % | 80 - 120 |
| A067454 | JEP | Spiked Blank | Dissolved Mercury (Hg) | 2025/12/05 | | 92 | % | 80 - 120 |
| A067454 | JEP | Method Blank | Dissolved Mercury (Hg) | 2025/12/05 | <0.013 | | ug/L | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A067454 | JEP | RPD [AXUV92-09] | Dissolved Mercury (Hg) | 2025/12/05 | NC | | % | 20 |
| A067515 | MCN | Matrix Spike | Nitrogen (Ammonia Nitrogen) | 2025/12/04 | | 99 | % | 80 - 120 |
| A067515 | MCN | Spiked Blank | Nitrogen (Ammonia Nitrogen) | 2025/12/04 | | 110 | % | 80 - 120 |
| A067515 | MCN | Method Blank | Nitrogen (Ammonia Nitrogen) | 2025/12/04 | <0.050 | | mg/L | |
| A067515 | MCN | RPD | Nitrogen (Ammonia Nitrogen) | 2025/12/04 | NC | | % | 20 |
| A067562 | J1A | QC Standard | Turbidity | 2025/12/05 | | 105 | % | 80 - 120 |
| A067562 | J1A | Spiked Blank | Turbidity | 2025/12/05 | | 101 | % | 80 - 120 |
| A067562 | J1A | Method Blank | Turbidity | 2025/12/05 | <0.10 | | NTU | |
| A067562 | J1A | RPD | Turbidity | 2025/12/05 | 2.0 | | % | 20 |
| A067863 | JEP | Matrix Spike | Total Mercury (Hg) | 2025/12/05 | | 98 | % | 80 - 120 |
| A067863 | JEP | Spiked Blank | Total Mercury (Hg) | 2025/12/05 | | 96 | % | 80 - 120 |
| A067863 | JEP | Method Blank | Total Mercury (Hg) | 2025/12/05 | <0.013 | | ug/L | |
| A067863 | JEP | RPD [AXUV93-08] | Total Mercury (Hg) | 2025/12/05 | NC | | % | 20 |
| A067930 | MCN | Matrix Spike | Dissolved Chloride (Cl-) | 2025/12/05 | | 92 | % | 80 - 120 |
| A067930 | MCN | Spiked Blank | Dissolved Chloride (Cl-) | 2025/12/05 | | 93 | % | 80 - 120 |
| A067930 | MCN | Method Blank | Dissolved Chloride (Cl-) | 2025/12/05 | <1.0 | | mg/L | |
| A067930 | MCN | RPD | Dissolved Chloride (Cl-) | 2025/12/05 | 1.5 | | % | 20 |
| A067968 | S6S | Matrix Spike | Total Organic Carbon (C) | 2025/12/05 | | 101 | % | 85 - 115 |
| A067968 | S6S | Spiked Blank | Total Organic Carbon (C) | 2025/12/05 | | 103 | % | 80 - 120 |
| A067968 | S6S | Method Blank | Total Organic Carbon (C) | 2025/12/05 | <0.50 | | mg/L | |
| A067968 | S6S | RPD | Total Organic Carbon (C) | 2025/12/05 | NC | | % | 15 |
| A068032 | MCN | Matrix Spike | Dissolved Sulphate (SO4) | 2025/12/05 | | 96 | % | 80 - 120 |
| A068032 | MCN | Spiked Blank | Dissolved Sulphate (SO4) | 2025/12/05 | | 95 | % | 80 - 120 |
| A068032 | MCN | Method Blank | Dissolved Sulphate (SO4) | 2025/12/05 | <2.0 | | mg/L | |
| A068032 | MCN | RPD | Dissolved Sulphate (SO4) | 2025/12/05 | 1.4 | | % | 20 |
| A068033 | MCN | Matrix Spike | Reactive Silica (SiO2) | 2025/12/05 | | 93 | % | 80 - 120 |
| A068033 | MCN | Spiked Blank | Reactive Silica (SiO2) | 2025/12/05 | | 98 | % | 80 - 120 |
| A068033 | MCN | Method Blank | Reactive Silica (SiO2) | 2025/12/05 | <0.50 | | mg/L | |
| A068033 | MCN | RPD | Reactive Silica (SiO2) | 2025/12/05 | 1.2 | | % | 20 |
| A068035 | M2C | Spiked Blank | Colour | 2025/12/05 | | 104 | % | 80 - 120 |
| A068035 | M2C | Method Blank | Colour | 2025/12/05 | <5.0 | | TCU | |
| A068035 | M2C | RPD | Colour | 2025/12/05 | NC | | % | 20 |
| A068036 | M2C | Matrix Spike | Orthophosphate (P) | 2025/12/05 | | 88 | % | 80 - 120 |
| A068036 | M2C | Spiked Blank | Orthophosphate (P) | 2025/12/05 | | 94 | % | 80 - 120 |
| A068036 | M2C | Method Blank | Orthophosphate (P) | 2025/12/05 | <0.010 | | mg/L | |
| A068036 | M2C | RPD | Orthophosphate (P) | 2025/12/05 | NC | | % | 20 |
| A068038 | MCN | Matrix Spike | Nitrate + Nitrite (N) | 2025/12/05 | | 103 | % | 80 - 120 |
| A068038 | MCN | Spiked Blank | Nitrate + Nitrite (N) | 2025/12/05 | | 110 | % | 80 - 120 |
| A068038 | MCN | Method Blank | Nitrate + Nitrite (N) | 2025/12/05 | <0.050 | | mg/L | |
| A068038 | MCN | RPD | Nitrate + Nitrite (N) | 2025/12/05 | 6.8 | | % | 20 |
| A068040 | MCN | Matrix Spike | Nitrite (N) | 2025/12/05 | | 95 | % | 80 - 120 |
| A068040 | MCN | Spiked Blank | Nitrite (N) | 2025/12/05 | | 98 | % | 80 - 120 |
| A068040 | MCN | Method Blank | Nitrite (N) | 2025/12/05 | <0.010 | | mg/L | |
| A068040 | MCN | RPD | Nitrite (N) | 2025/12/05 | NC | | % | 20 |
| A070594 | VTH | Method Blank | Carbon Dioxide | 2025/12/09 | <0.6 | | L/m3 | |



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## QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---|---|---|---|---|---|---|---|---|
| A070594 | VTH | RPD [AXUV91-13] | Carbon Dioxide | 2025/12/09 | 1.1 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) PAH sample contained sediment.



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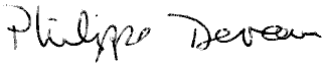
Bureau Veritas Job #: C5F0942
Report Date: 2025/12/10

Strum Environmental
Client Project #: 24-10333
Site Location: BOTWOOD
Your P.O. #: 24-10333 TASK 7
Sampler Initials: BM

## VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ernlie Publicover, Scientific Specialist



Phil Deveau, Scientific Specialist (Organics)

Tom Mitchell, B.Sc, Supervisor, Compressed Gases

Bureau Veritas Certified by Ernlie Publicover, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Suzanne Rogers, General Manager responsible for Nova Scotia Environmental laboratory operations.



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# APPENDIX H.4

## Technical Memorandum – EVREC Discharge Creek Response to Plant Discharge

Prepared by: Fracflow Consultants Inc.

**ENVIRONMENTAL IMPACT STATEMENT**
**EVREC Green Energy Hub**
**Exploits Valley Renewable Energy Corporation**

*Fracflow Consultants Inc.*
Environmental, Hydrogeological and
Geotechnical Engineering Consultants

MARINE CONTRACTORS INC.

# TECHNICAL MEMORANDUM

TO: Dave Perry, MCI FFC-NL-3191-8-002 Ver. 4

FROM: Fracflow Consultants Inc.

DATE: March 17, 2026

SUBJECT: EVREC Discharge Creek Response to Plant Discharge

## 1.0 INTRODUCTION

Exploits Valley Renewable Energy Corporation (EVREC) is proposing to construct a Hydrogen/Ammonia plant in the Botwood, NL area (**Figure 1**). The Hydrogen/Ammonia plant will receive a volume of raw water from the Peters River Drainage Basin. The raw water will be processed through a pre-treatment filter and a Reverse Osmosis (RO) system to produce essentially distilled water for the plant. The pre-treatment and RO reject water and water from the plant operations, estimated at 3.1 $m^3$/min, will be collected in a retention pond on the plant site.

The water from the plant operations will be discharged from the retention pond to a watercourse (**Figure 2**) known as the "Discharge Creek" (WC15-104) which trends northeast across the plant site. A small stream (WC15-159) that bifurcates from the Main Stream trends east across the plant site and contributes to the Discharge Creek. The water from the retention pond/plant operations will be discharged at the northern boundary of the plant site. The Discharge Creek merges approximately 1 km northeast of the northern boundary of the plant site with the Main Stream.

The Main Stream, joined by the Discharge Creek, discharges into Northern Arm Brook and then into the ocean under a bridge on Highway 350 into the Bay of Exploits as part of the outflow from Northern Arm Brook. Additional runoff from the plant site that will drain towards the retention pond and to the northern boundary of the plant will increase the water discharge at the plant boundary, which was modelled as approximately 5 $m^3$/min. The hydrology model was calibrated using proxy data and used to assess the stream response to the additional discharge from the plant site. The plant site's northern boundary is located approximately 2.5 km upstream from the point where the Main Stream discharges into the bottom of Northern Arm Brook.

The *Botwood* climate station in the immediate area provided climate data that started as early as 1937 and ends in 1995. However for this hydrology model the daily climate data between January 1980 and June 1995 have been used since there are streamflow measurements for Peters River for that same time period. Both the climate and Peters River streamflow records have been used to provide the historical/proxy data for this hydrology study. Based on the climate data from the *Botwood* climate station between 1980 and 1995, the mean monthly precipitation varies from 64.8 mm in April to 105.6 mm in August with a mean yearly precipitation of 1,006 mm.

When applying the rainfall-runoff relationship, the SCS Curve Number method was used by incorporating the land cover data by Natural Resources of Canada (NRCan) and the soil data that were generated by converting the soil types from NRCan to Hydrologic Soil Group (HSG) by the Natural Resources Conservation Service (NRCS).

# 2.0 OBJECTIVES, SCOPE AND METHODOLOGY

The objective of this desktop analysis, supported by limited field work by Landmark Surveys & Engineering Limited (Landmark) to measure selected stream cross sections, was to provide an assessment of the potential of the northeast flowing stream that originates southwest of the plant site and flows through the plant site to receive water that is discharged from the plant operations at the northern plant boundary. In addition, this desktop study also assessed the potential of the larger streamflows that are produced when the two stream tributaries merge to receive the discharge from the plant operations. The initial goal was to determine how the addition of the plant discharge, primarily the reject water and water from the plant operations, would impact flood events down-stream of the plant boundary. Since the reject water will have elevated Total Dissolved Solids (TDS) and some of the water from the plant operations will have elevated temperatures, a second goal of the hydrology model study was to extract and use the flow data from the stream model to determine what impact these changes in water chemistry and temperature could have on the water quality in the stream during (1) low flow or drought events, (2) average flow conditions, and (3) during flood events.

The high resolution LiDAR data were used to delineate the drainage basin and their sub-basins, using HEC-HMS. The available data (precipitation data, land cover map, soil map, etc.) were compiled for the plant site drainage basin, along with Fracflow's estimates of the permeability, depth to water table, and infiltration capacity for each of the main bedrock and surficial geology units, and used to construct both a HEC-HMS and a HEC-RAS hydrology model of the stream drainage basin. Since the streams on the plant site are not gauged streams, the compiled data were compared to the corresponding data from the existing Exploits River Flood Study by NL (Hatch, 2021) and the database that was compiled for the Peters River hydrology model to create a database that could be used for the plant site model.

The stream channel was defined using the LiDAR data and cross-section profiles were provided by Landmark for the preliminary study and peak flow calculations at the stream outflow and at

the release point from the northern boundary of the plant site. The model was run under the current ground conditions and then re-run with the changed ground conditions resulting from the plant construction, including extra discharge water from the plant operations. A preliminary flood map was constructed to simulate the impact of the water discharge from the plant on the existing streamflow for 1:20 and 1:100 years storm events.

# 3.0 GEOLOGY AND HYDROGEOLOGY

## 3.1 Bedrock Geology

The plant site drainage basin is underlain primarily by one main bedrock unit. The main bedrock unit (Dickson, 2000; Dickson et al., 2000), is the thick bedded red sandstones with minor siltstone and conglomerate of the Botwood Group, Wigwam Formation. This rock unit, except for local areas of the red sandstone and conglomerate, is essentially a fractured rock system with low porosity (less than 1%) and moderate fractured rock permeability. The bedrock geology map for the study area is extracted and presented in **Figure 3**.

The thick bedded fractured red sandstone and related bedrock units have been faulted and folded into a series of northeast to southwest trending anticlines and synclines. It is expected that the top of the anticlines will have thin overburden to exposed bedrock outcrops, whereas the synclines are expected to host thick overburden deposits.

## 3.2 Surficial Geology

The surficial geology (Liverman and Taylor, 2000; Kirby et al., 2011) of the plant site drainage basin consists primarily of glacial till consisting of unsorted clay/silt to gravel with some small areas of poorly drained bog with smaller areas of glacial-fluvial material at the bottom of the drainage basin. The glacial till has low to moderate permeability and low flow porosity and ranges in thickness over the basin. The organic layer in the bogs can have thicknesses of up to 5 m or thicker. In some areas a soft layer of clay is present below the organic layer and also below the thin granular layer. The surficial geology (Kirby et al., 2011) for the proposed project site has been extracted and presented in **Figure 4**.

The granular material will have relatively high porosity, in the 20 to 25% range, and the bogs in some areas will have much higher porosity, in the range of 50 to 70%. Bogs with a thick organic layer tend to store water from rainfall events and snow melt and gradually release that water to the stream system as baseflow. The fractured bedrock, as noted above, tends to have very low porosity and high groundwater velocities and do not store large volumes of water per unit volume of the fractured bedrock.

The gentle slopes and underling surficial material produces a surface cover of water during frozen ground conditions and a near surface water table during most of the year. It is expected that major precipitation or snow melt events will produce surface flooding or pools of surface water. Preparation of the plant site will most likely require the construction of sub-surface water drains and diversion of surface water. This will result in an initial increase in streamflow.

## 3.3 Drainage Basin

The plant site drainage basin is characterized by a long, relatively narrow, straight, northeast trending drainage basin with two large tributaries that produce stream orders of one to two which generally indicate a shallow water table and a well-drained system. The overall aspect ratio, length to width, of the drainage basin is approximately 5:1. The plant site drainage basin has relatively low relief with the highest elevation of 96.4 m at the southwest part of the drainage basin, sloping steadily northeast from the high ground to the southwest on the drainage divide with the Peters River drainage basin to the stream discharge at the mouth of the Northern Arm Brook (**Figure 2**).

## 3.4 Climate Data

Climate data from the *Botwood* climate station for the period of 1980 to 1995 were reviewed and compiled for the Peters River drainage basin hydrology study and are repeated in this Report for completeness and for reference. All of the climatic data have been obtained from Environment Canada websites (EC, 2025).

The monthly mean temperature data, for the period of record, are presented in **Figure 5**. The annual mean temperature for the area was approximately 4.3°C. The mean monthly temperatures were highest during July and August with both temperature of 16.6°C and decreased to the lowest value during February (-8.1°C). The temperature statistics indicate that the mean monthly temperature between December and March is below 0°C.

The monthly total precipitation data are provided in **Figure 6** for the period. The mean monthly precipitation varies from 64.8 mm in April to 105.6 mm in August with a mean yearly precipitation of 1,006 mm. **Figure 7** displays the historical annual precipitation values at the climate station. The maximum (1994), minimum (1985) and average (1990) annual precipitation years were selected and are tabulated in **Table 1**. The maximum, minimum and average monthly precipitation rates, during this same period of time, along with the month and year in which those precipitation rates were recorded at the *Botwood* climate station are tabulated in **Table 2**.

Table 1 Summary of the yearly total precipitation between 1980 and 1995 at the *Botwood* climate station.

| | *Minimum* | *Maximum* | *Average (1,005.9 mm)* | *Including Monthly Maximum* | *Including Monthly minimum* |
|---|---|---|---|---|---|
| *Year* | 1985 | 1994 | 1990 | 1987 | 1983 |
| *Yearly Total Precipitation (mm)* | 768.0 | 1,198.7 | 1,004.3 | 867.6 | 1,094.7 |

Table 2 Summary of the monthly precipitation between 1980 and 1995 at the *Botwood* climate station.

| | | *Minimum* | *Maximum* | *Months of Average (83.6 mm)* | | | | |
|---|---|---|---|---|---|---|---|---|
| *Year* | | 1987 | 1983 | 1982 | 1983 | 1984 | 1987 | 1995 |
| *Month* | | July | August | Jun | Feb | Sept | Dec | Mar |
| *Precipitation (mm)* | Monthly | 10.6 | 221.2 | 83.4 | 83.6 | 83.0 | 83.0 | 83.8 |
| | Daily | 0.34 | 7.14 | 2.78 | 2.99 | 2.68 | 2.68 | 2.70 |
| | Hourly | 0.014 | 0.297 | 0.116 | 0.124 | 0.112 | 0.112 | 0.113 |

# 4.0 HYDROLOGIC MODEL ANALYSIS

The US Corp of Engineers, Hydrologic Engineering Center, Hydrologic Modelling System (HEC-HMS) and River Analysis System (HEC-RAS) were used to identify the stream location and the main watershed or drainage basin boundaries, and its tributaries, and to conduct two-dimensional hydraulic calculations.

## 4.1 Digital Elevation Model and Drainage Basins

An airborne LiDAR survey was conducted and a High Resolution Digital Elevation Model (HRDEM) was prepared from the LiDAR data by Landmark. The mass data points from the LiDAR survey were converted to 0.5 m grid DEM. Each DEM data set covered an area of 1 km by 1 km. The separate DEM files were combined to produce one DEM data set for the entire

study area. An increase sampling interval/grid of 1 m was used for the combined DEM data set to optimize the input file size into the HEC-RAS program. The DEM data are presented in **Figure 8**. The highest elevation in the resampled DEM dataset was 96.4 m.

The drainage basin on the plant site was outlined using HEC-HMS with the combined HRDEM dataset as the base terrain/elevation data. Possible courses of streamflows and flow directions were also determined using HEC-HMS. With the HRDEM data, the outlined water courses using HEC-HMS near the discharge to the Bay of Exploits was offset from the surveyed water courses as well as that shown on the orthoimages. The difference was due to location of several culverts. Therefore, the DEM file was modified by levelling the ground surface/channel surface elevation based on the surrounding elevations. **Figure 9** presents the DEM data before and after the modification. The updated/corrected stream channel is presented in **Figure 8**.

## 4.2 Rainfall Input

Natural Resources of Canada (NRCan)/Environment Canada provides an Intensity-Duration-Frequency (IDF) database of short duration rainfall IDF statistics for various locations across Canada with updates for every two years depending on the data availability. Among the 26 locations in NL, the closest location to the plant site was *Badger* (8400301). The downloaded IDF data and curve from NRCan are provided in **Appendix A**.

The latest update on the IDF data for *Badger* by Environment Canada was completed in 2022 using 15 years of data between 2005 and 2021. Based on the latest IDF data, a synthetic hyetograph was generated using the alternating block method that incorporated accumulated precipitation from various durations of a particular return period. The 24-hour period synthetic hyetograph graph for 1:20 and 1:100 annual exceedance probability (AEP) rainfall events are shown in **Figure 10**. The 24-hour total rainfall applied for each hyetograph were 97.6 mm and 126 mm for the 20- and 100-year AEP rainfall event, respectively.

## 4.3 Land Cover

There are two main methods of obtaining land cover/land use information; field surveys and analysis of the Landsat satellite imagery. NRCan provides a Land Cover product that is updated every five years and the most recent Land Cover data provided by NRC is ‘Land Cover of Canada 2020’ that was produced using Landsat imagery with 30 m spatial resolution. ‘Land Cover of Canada 2020’ consists of 19 land cover types but only seven land cover types were identified in the current study area which are shown in **Table 3** with corresponding hydraulic roughness coefficients applied. Hydraulic roughness represents the amount of frictional resistance of flow through channels and flood plains and is usually presented using Manning’s *n* value, which is related to stream slope or hydraulic gradient but inversely related to the mean velocity of flow in channels and flood plains. The main factors affect the Manning’s

*n* values are type, height, density, and distribution of vegetation, and shape and size of channels. The Manning's *n* values in **Table 3** were applied throughout the current analyses and need to be adjusted during a future calibration stage. The combined land cover distribution map is presented in **Figure 11**.

Table 3 Land cover classes and roughness coefficients used in the model.

| Land Cover Class (NRCan) | Manning's *n* |
|---|---|
| Temperate or sub-polar needleleaf forest | 0.12 |
| Mixed forest | 0.12 |
| Temperate or sub-polar Shrubland | 0.08 |
| Wetland | 0.11 |
| Barren lands | 0.026 |
| Urban | 0.12 |
| Water / Channel | 0.035 |

## 4.4 Soil Map

Three levels of soil survey maps are available from the NL Department of Fisheries, Forestry and Agriculture, providing the distribution of various soil types and land distribution patterns with different intensity of data collection levels. Considering both bedrock and surficial geology, as well as the topography of the project area, the most recent soil data of reconnaissance soil surveys from NL Fisheries, Forestry and Agriculture was chosen for the current analysis. This provided an overview of the locations and extents of the major soil types that were chosen for the analysis. **Figure 12** shows the distribution of the soil types on the study area.

Each soil type was then converted to a corresponding group from four hydrologic soil groups (HSG) provided by Natural Resources Conservation Service (NRCS) (USDA, 2009) according to their potential of infiltration or drainage/minimum infiltration rate. **Table 4** summarizes the NRCS groups with corresponding soil drainage classes and their characteristics and **Figure 13** presents the distribution of HSG on the study area.

Table 4 Soil drainage classes and hydrologic soil groups.

| Soil Drainage Class (NRCan) | Hydrologic Soil Group | Soil Characteristics (USDA, 1986) | Minimum Infiltration Rate (USDA, 1986) |
|---|---|---|---|
| Very Rapidly Drained | A | Low runoff potential and high infiltration rates even when thoroughly wetted. They consist chiefly of deep, well to excessively drained sand or gravel and have a high rate of water transmission. | > 7.6 mm/hr (> 0.30 in/hr) |
| Rapidly Drained | A | | |
| Well Drained | A | | |
| Moderately Well Drained | A | | |
| Imperfectly Drained | B | Moderate infiltration rates when thoroughly wetted and consist chiefly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission. | 3.8 - 7.6 mm/hr (0.15 - 0.30 in/hr) |
| Poorly Drained | C | Low infiltration rates when thoroughly wetted and consist chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine to fine texture. These soils have a low rate of water transmission. | 1.3 - 3.8 mm/hr (0.05 - 0.15 in/hr) |
| Very Poorly Drained | D | High runoff potential. They have very low infiltration rates when thoroughly wetted and consist chiefly of clay soils with a high swelling potential, soils with a permanent high water table, soils with a claypan or clay layer at or near the surface, and shallow soils over nearly impervious material. These soils have a very low rate of water transmission. | 0 - 1.3 mm/hr (0 - 0.05 in/hr) |

## 4.5 Curve Number Method

In flood hydrology, rainfall-runoff relationships are generally estimated using the NRCS runoff equation (curve number runoff equation) (NEH-630) (USDA, 2004). The Curve Number (CN) is an empirical parameter that indicates degrees/potential of runoff or infiltration from excess

rainfall. Several factors contribute to CN such as soil type, land cover, land use, infiltration potential of the surface, antecedent runoff condition (ARC), depth to groundwater, etc. A table of estimated curve numbers are provided by NRCS as a function of HSG, cover type, treatment, hydrologic condition, ARC, and impervious area in Technical Release 55 (well known as TR-55) (USDA, 1986). However, because the curve number method was developed from field investigation with annual flood flows and experimental watersheds, and the table was developed for average ARC for urban, cultivated agricultural, other agricultural, and arid and semiarid rangeland uses, both reports NEH-630 and TR-55 state the limitations in applying the CN method and recommend to examine the sensitivity of the analysis using peak discharges and hydrographs. The infiltration capacity for the bedrock and surficial geology units were used to determine a Curve Number table along with Fracflow's estimates of the permeability and depth to the water table.

A SCS curve number map for the plant site drainage basin was generated using the land cover data and the NRCS soil classification data (**Table 5**). Considering the limitation of the CN method, no soil field investigation data and lack of calibration process, instead of one deterministic set of Curve Number distributions, a Curve Number table was adopted from the previous studies in the vicinity area and applied to simulate storm events. The final curve number map for the current study is presented in **Figure 14**.

Table 5 Curve numbers for the four scenarios.

| Land Cover Class (NRCan) | Hydrologic Soil Group | | | |
|---|---|---|---|---|
| | *A* | *B* | *C* | *D* |
| Temperate or sub-polar needleleaf forest | 50 | 74 | 85 | 89 |
| Mixed forest | 59 | 78 | 88 | 91 |
| Temperate or sub-polar Shrubland | 75 | 87 | 92 | 94 |
| Sub-polar or polar grassland-lichen-moss | 89 | 94 | 97 | 98 |
| Wetland | 88 | 89 | 90 | 91 |
| Barren lands | 89 | 94 | 97 | 98 |
| Urban | 87 | 93 | 96 | 97 |
| Water / Channel | 100 | 100 | 100 | 100 |

## 4.6 Flood Analysis

### 4.6.1 HEC-RAS Model Setup

*Model Area and Grid Setup*

The model boundary or computation area was determined based on the boundary of the drainage basin. Then the model boundary was checked and adjusted during model set up using a detailed contour map to ensure that the model boundary was placed on the drainage divides so no enclosed sink would be created near the drainage boundary.

A mesh size of 10 m by 10 m was used for the entire model area and the channels, streams and roads were refined using 5 m by 5 m meshes. The resulting model areas/boundaries are shown in **Figure 15**. The centerlines/lowest points of channels and their banks were digitized using the DEM data and the surveyed stream profiles. Then the digitized lines were used as 'Breaklines' to enforce the mesh faces aligned on the channel bottoms and bank lines. In addition, expected flood plains were also outlined as 'Refinement Regions' and assigned with 5 m meshes.

*Boundary Conditions*

The model boundaries serve as no-flow boundaries such as no-cross flows are allowed through the boundaries. Where the model boundaries were bounded by shoreline, 'Normal Depth' was assigned as the boundary condition so that the flow could move through that part of the model boundary based on the elevations.

To simulate the discharge of the flow from the Plant, an internal boundary condition was set along the river width just north of the proposed plant boundary line as 'Flow Hydrograph' using a discharge rate of 5 $m^3$/min (7,200 $m^3$/day).

The 'Precipitation' boundary condition was assigned to the entire modeled area using the 24-hour synthetic storm events that were populated using the IDF curves by Environment and Natural Resources (ENR) (2022) (**Appendix A**).

*Structure Data*

The majority of hydraulic structures such as dams, culverts, bridges, etc., should be incorporated into the hydraulic model to reflect the site conditions on the flood analysis. However, the current analysis was conducted as a part of preliminary assessment of the impact of the addition of plant discharge on the flooding conditions before any long term data collection and investigation were conducted. On the other hand, the hydraulic structures are generally installed in the lowland or areas of low elevations or near the shorelines. Therefore, instead of assuming the dimension and locations of any possible structures, those structures were not incorporated during the model setup unless one was required to reduce instability of the model simulation. When a structure

was assigned to a model, its location and dimension was determined in a conservative way such that existence of the structure did not decrease the flooded area excessively. Another method of dealing with the structures was to adjust the DEM data set. Since the DEM had to be updated to correct the stream courses, the updated DEM was used for the current study. Current weather conditions and snow cover prevented the collection of the culvert sizes, lengths and elevations to allow them to be included in the revised model.

*Model Calibration/Validation*

Calibration or validation processes were not attempted for the current hydrologic and hydraulic analyses, due to lack of field data or historical data on the plant site drainage basin to support the calibration processes.

### 4.6.2 Inundation and Velocity Map

Following the development of the hydrologic/hydraulic model, the flows were simulated in each model area using the synthetic 1:20 and 1:100 AEP rainfall events. Each model was run under unsteady state condition with the boundary condition assigned as described above.

The HEC-RAS model provided inundation maps presenting the floodwater extent during the two rainfall events, 1:20 and 1:100 AEP both with and without the reject water discharge and are presented in **Figures 16a to 19a**. Each map presents the inundation map with 0.5 m interval of the water depth above the ground surface. Corresponding detailed maps at the area near the stream discharge point to Northern Arm Brook are shown in **Figures 16b to 19b**.

The velocity maps for the corresponding simulations are presented in **Figures 20 to 23.**

### 4.6.3 Flow Simulations – Flood Events

The HEC-RAS model simulation started with a precipitation of 0.115 mm/hour for four days before the storm event to create a pre-storm condition using an average annual precipitation of 1,006 mm/year from the climate data between 1981 and 1995. For conservative results, the average hourly precipitation was calculated from the downloaded climate data between 1980 and 1995 (**Figures 6 and 7**). After the 24-hour storm event, one more day of the average precipitation was applied following two days of no precipitation condition.

The simulated flows were computed at the downstream location near the plant water discharge point for the four simulations and are presented in **Figure 24**. The calculated flows during the 1:20 and 1:100 flood events are 0.44 $m^3$/s (26.4 $m^3$/min) and 0.55 $m^3$/s (33.0 $m^3$/min), respectively. The discharge from the proposed plant operation is estimated at approximately 0.052 $m^3$/s (3.1 $m^3$/min) by the Client. However, due to the limitation of the calibration on

HEC-RAS model, a discharge rate of 5.0 $m^3$/min was used for the flood event simulations to obtain a conservative result. **Figure 25** shows the pre-storm condition of the Discharge Creek from the plant site to the junction of the Main Stream at the end of the four day simulation with the average precipitation and the discharge from the plant.

## 4.7 Continuous Streamflow Calculation

In support of the EIS, the hydrologic model was required to estimate the changes in flow along the stream (Discharge Creek) that runs through the proposed plant site at Botwood. In the initial study, a 2D HEC-RAS model was constructed to estimate flow both with and without the plant water discharge from the future plant operation and its impact on the existing stream during flood events. The RAS model was set up as a simple 2D flow model to simulate 20-year and 100-year return-period flood events. The meshes in the 2D flow regime were determined to improve accuracy and reduce model instability in simulating the interaction between channel flow and surface runoff. The model was set up for short-term flood event simulations, so the existing 2D RAS model was not designed to run for month- or year-long flow simulations. Instead, the RAS model was used to support the updated HEC-HMS model by simulating multiple short periods and generating hydrographs to compare with the HMS simulations.

### 4.7.1 HEC- HMS Model Setup and Input Parameters

A HEC-HMS model of the current project site was set up to calculate daily and monthly streamflow. Since the existing HMS model that was built to support the 2D RAS model was set up for event simulations, the input parameters for the updated HMS model were modified to enable continuous simulations. The initial input parameters were selected based on the parameters used to simulate the nearby gauged basin, Peters Pond drainage basin. The parameters were subsequently adjusted based on the characteristics of the sub-basins and reaches, the land cover and soil maps, and the observed ground conditions of the site during the geotechnical investigation. Since the current HMS simulations are based on a non-gauged stream and the measured data are limited, the input parameters were kept as simple as possible to avoid unnecessary complications.

Due to the lack of calibration data, ‘Drainage-Area Ratio Method’ published by United States Geological Survey (Emerson et al., 2005) was used to transfer the Peters River streamflow data to Plant Stream watershed.

$$Q_u = Q_g \cdot \left(\frac{A_u}{A_g}\right)^n$$

*Where* $Q_u$ is the estimated streamflow
$Q_g$ is the measured streamflow for the gauging station
$A_u$ is the drainage area of the ungauged basin
$A_g$ is the drainage area of the gauged basin
n is an exponent often close to 1

Emerson et al. (2005) reported the exponent of the drainage-area ratio as 0.85 for the winter season, 0.91 for the spring season, and 1.02 for the summer season. An exponent of 1 was used in the Plant Stream model for all seasons.

Although the Plant Stream drainage basin is adjacent to and shares its southern drainage boundary with the Peters River drainage basin, the characteristics of the two basins (**Table 6**) are not sufficiently similar for direct comparison. Therefore, the transferred streamflow data were not used as a calibration tool but rather to verify the response of the Plant Stream to rainfall events and the general shape of hydrographs, while considering the shorter lag times expected in hydrographs of the Plant Stream watershed.

Table 6 Characteristics of the Plant Stream and Peters River basins.

| Characteristics | Plant Stream Basin | Peters River Basin |
|---|---|---|
| Basin Area ($km^2$) | 13.04 | 182.68 |
| Basin Slope (m/m) | 0.086 | 0.058 |
| Basin Relief (m) | 96.8 | 239.0 |
| Longest Flowpath length (km) | 12.57 | 47.17 |
| Longest Flowpath Slope (m/m) | 0.0064 | 0.0044 |

### 4.7.2 Flow Simulation and Sensitivity Analysis

The simulated hydrographs were compared with the outputs from the 2D HEC-RAS model and with the transferred streamflow data from the nearby gauged stream in the Peters River drainage basin. For comparison of the RAS and HMS model results, one period was selected from each of the four years: 1984, 1987, 1989, and 1990. Since the RAS model was not constructed for winter

months, it does not represent the spring snowmelt flows. Therefore, flows calculated by the RAS model were used to confirm the basin's response to rainfall events.

A sensitivity analysis was then conducted by adjusting the input parameters and comparing the calculated flows with the transferred flows from the Peters River gauge station using the Drainage-Area Ratio Method. The comparison considered hydrograph shape, lag time, runoff coefficient, and recession limb matching. This preliminary sensitivity analysis focused on the overall monthly flow volumes. In addition to the stream outlet location, two other locations were selected for flow comparison (**Figure 26**). The comparisons of the hydrographs for the selected periods at the three locations are shown in **Figures 27a-c to 30a-c**.

Based on preliminary HMS model simulations, total monthly flows from January 1981 to June 1995 were calculated. The method used to estimate the monthly flow for each season and the corresponding results are presented in the sections below.

### 4.7.3 Temperature and Chemistry in Plant Operations Discharge Water

The raw water will be pumped from Peters Pond and processed through a filter and RO system for use in the plant operations. The reject water will have elevated TDS when compared to the surface water source and discharge stream, and some of the water that is used in the plant operations will have elevated temperatures. The discharged water from the plant operations will be discharged to and mixed in a retention pond before being discharged to a section of the Discharge Creek at the northern boundary of the plant site.

The weekly to biweekly sampling events by Strum (Strum, 2026) serves as the background data for the laboratory analysis chemistry, as well as the field chemistry parameters. The field samples were grouped into four seasons to obtain an average "Seasonal Chemistry" sample that would represent the water source for the process, also known as "raw water." This was assumed to be the chemistry for both the raw water, as well as the background chemistry for the streams into which the retention pond water is discharged.

Based on communication and information provided by the Client and Client's consultants, Fracflow understands that the raw water undergoes pre-treatment to remove approximately 48.2% of inorganics and metals at a reject rate of 5%, to be known as pre-treated water. The pre-treated water is then understood to undergo demineralization using reverse osmosis, removing 98.4% of all inorganics and metals with a reject rate of 30%. The calculated chemistry of the rejected process water was visualized as concentrating parameters to meet the Client-specified objectives or where no objectives were set, the approximate removal rate.

The assumptions were;

1. Pre-treatment of raw water removes approximately 48.2% of inorganics and metals at a reject rate of 5%;

2. Demineralization of pre-treated water removes 98.4% of all inorganics and metals with a reject rate of 30%;
3. Where parameters in raw water were not detected above the reported detection limit, they were conservatively taken as the RDL because their absence cannot be assumed.
4. CCME FWAL guidelines will be used because the affected water courses are freshwater and presumably fish-bearing.

The pretreatment and demineralization reject water are the main constituents of inorganics and metals for the total plant operation waste water. The chemistry of the reject/waste water is compared against the Canadian Council of Ministers of the Environment (CCME) guidelines for Freshwater Aquatic Life (FWAL). Certain parameter guidelines are dependent on the hardness, pH, and organic carbon content of the sample, and are thus variable.

Routine Comprehensive Analysis – Untreated Water

The seasonal samples for WQM3 – Peters Pond Inlet did not exceed any of the FWAL guidelines; however the fluoride RDL was 0.10 mg/L compared to the guideline value of 0.12 mg/L. These RDLs were close enough to guidelines values that concentrating of the reject water from pre-treatment could potentially exceed guidelines.

Total and Dissolved Metals – Untreated Water

- Total and Dissolved aluminum exceed the guidelines value of 100 µg/L.
- Total Iron exceeds the guideline value of 300 µg/L.

The remainder of the parameters did not exceed the guidelines for FWAL, but RDLs are close enough to guidelines that pre-treatment and RO reject water samples must be flagged for exceeding guidelines.

Routine Comprehensive Analysis – Pre-treated Water Reject

Where a water quality objective was referenced by the Client, that value was used to calculate the removed parameters that would be concentrated in the reject water. Where no value for water quality objectives were referenced, the overall filter rate of 48.2% was used.

Total and Dissolved Metals – Pre-treated Water Reject

The following were present above RDL in original samples;

- Total manganese exceeds the variable guideline value of approximately 190 µg/L.
- Total and Dissolved aluminum exceed the guidelines value of 100 µg/L.
- Total Iron exceeds the guideline value of 300 µg/L.

And the following were conservatively taken as RDL and thus are flagged;

- Arsenic RDL is 4.0 µg/L compared to the guideline value of 5.0 µg/L;
- Lead RDL is 0.50 µg/L compared to the variable guideline value of 1 µg/L or more.
- Mercury RDL is 0.013 µg/L compared to the guideline value of 0.026 µg/L
- Selenium RDL is 0.5 µg/L compared to the guideline value of 1.0 µg/L
- Silver RDL is 0.10 µg/L compared to the guideline value of 0.25 µg/L

These RDLs were close enough to guidelines values that concentrating of the reject water from pre-treatment could potentially exceed guidelines.

Routine Comprehensive Analysis – Reverse Osmosis Water Reject

- Fluoride exceeds the guideline value of 0.12 mg/L.

Total and Dissolved Metals – Pre-treated Water Reject

- Total Aluminum exceeds the guideline value of 100 µg/L.
- Total Iron exceeds the guideline value of 300 µg/L.

### 4.7.4 Impacts of Plant Operation Discharge Water on Flow, Temperature and Chemistry

For the mixing calculations, three locations were considered with increasing total flow:

1. The Discharge Creek flowing north from the plant site (J1);
2. Junction of the Discharge Creek flowing north from the plant site, and the Main Stream flowing west of the plant site (J6); and
3. The Main Stream outlet into Northern Arm Brook near Bay of Exploits (J2).

The flows in the receiving stream have been estimated using the combined HEC-HMS and HEC-RAS models at three locations and for three different flow conditions. The flow conditions that were considered were the 5% high, average, and 5% low resulting in three flow conditions for each season at each location, as shown in **Table 7**. These flows represent the existing modeled seasonal flow conditions before any development. For the calculations, the following values were used, paired with the assumption that the reject flow will be 3.5 $m^3$/min, or 0.058 $m^3$/s. This value was chosen based on the potential for other runoff that may not be accounted for in initial estimates. The percent increases in the streamflows after development are shown in **Table 7**.

The temperature for the total flow of the reject water was assumed to be 25°C for the calculation of the blending temperature estimate (**Table 8**). Fifth percentile flows are an order of magnitude smaller than the constant flow of reject water, so the temperature will remain relatively un-diluted. The same can be said for the various water quality parameters such as TSS (**Table 9**).

Table 7 Selected seasonal flows from the continuous flow simulation before the addition of the flow of reject water.

| Location | Case | Spring Mar-May | Summer Jun-Aug | July | August | Fall Sep-Nov | Winter Dec-Feb |
|---|---|---|---|---|---|---|---|
| Stream Input Data | | | | | | | |
| **Reject Water** | **$m^3/s$** | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Discharge Creek (WC15-104) flowing northeast from the plant site | | | | | | | |
| **J1 ($m^3/s$)** | **95th %ile** | 0.28 | 0.07 | 0.25 | 0.40 | 0.08 | 0.08 |
| | **Change** | 21% | 90% | 23% | 15% | 72% | 76% |
| | **Average** | 0.067 | 0.016 | 0.053 | 0.130 | 0.029 | 0.021 |
| | **Change** | 88% | 358% | 110% | 45% | 201% | 274% |
| | **5th %ile** | 0.0008 | 0.0002 | 0.0002 | 0.0042 | 0.0005 | 0.0001 |
| | **Change** | 7292% | 29167% | 29167% | 1389% | 11667% | 58333% |
| Junction of the Discharge Creek (WC15-104) and the Main Stream | | | | | | | |
| **J6 ($m^3/s$)** | **95th %ile** | 1.85 | 0.40 | 0.22 | 0.39 | 0.53 | 0.49 |
| | **Change** | 3% | 15% | 26% | 15% | 11% | 12% |
| | **Average** | 0.47 | 0.09 | 0.04 | 0.12 | 0.19 | 0.13 |
| | **Change** | 12% | 62% | 133% | 47% | 30% | 46% |
| | **5th %ile** | 0.0078 | 0.0002 | 0.0001 | 0.0038 | 0.0027 | 0.0001 |
| | **Change** | 748% | 29167% | 58333% | 1535% | 2160% | 58333% |
| Main Stream outlet into Northern Arm Brook near Bay of Exploits | | | | | | | |
| **J2 ($m^3/s$)** | **95th %ile** | 2.12 | 0.50 | 0.25 | 0.40 | 0.64 | 0.59 |
| | **Change** | 3% | 12% | 23% | 15% | 9% | 10% |
| | **Average** | 0.52 | 0.12 | 0.05 | 0.13 | 0.23 | 0.15 |
| | **Change** | 11% | 47% | 110% | 45% | 26% | 39% |
| | **5th %ile** | 0.0048 | 0.0005 | 0.0002 | 0.0042 | 0.0026 | 0.0001 |
| | **Change** | 1215% | 11667% | 29167% | 1389% | 2244% | 58333% |

Notes:

- The reject water was based on a flow of 3.5 $m^3$/min, which was an assumed conservative value above the specified 3.1 $m^3$/min provided by EVREC.
- The "95th %ile," "Average," and "5th %ile" are the selected existing modeled seasonal flow conditions used in calculating temperature and TSS.
- The "Change" row indicates the percent increase that will occur when the "Reject Water" is added to the selected existing modeled seasonal flow conditions.

Table 8 Estimated temperature from mixing the flow of reject water with seasonal flows.

| Location | Case | Spring Mar-May | Summer Jun-Aug | July | August | Fall Sep-Nov | Winter Dec-Feb |
|---|---|---|---|---|---|---|---|
| Temperature Input Data | | | | | | | |
| **Baseline** | **°C** | 6.8 | 18.3 | 19.3 | 18.1 | 13.5 | 0.0 |
| **Reject Water** | **°C** | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Discharge Creek (WC15-104) flowing northeast from the plant site | | | | | | | |
| **J1 (°C)** | **95th %ile** | 10.0 | 21.5 | 20.4 | 19.0 | 18.3 | 11.3 |
| | **Change** | 3.2 | 3.2 | 1.1 | 0.9 | 4.8 | 10.3 |
| | **Average** | 15.3 | 23.5 | 22.3 | 20.2 | 21.2 | 18.6 |
| | **Change** | 8.5 | 5.3 | 3.0 | 2.1 | 7.7 | 17.6 |
| | **5th %ile** | 24.8 | 25.0 | 25.0 | 24.5 | 24.9 | 25.0 |
| | **Change** | 18.0 | 6.7 | 5.7 | 6.4 | 11.4 | 24.0 |
| Junction of the Discharge Creek (WC15-104) and the Main Stream | | | | | | | |
| **J6 (°C)** | **95th %ile** | 7.4 | 19.1 | 20.5 | 19.0 | 14.6 | 3.6 |
| | **Change** | 0.6 | 0.9 | 1.2 | 0.9 | 1.1 | 2.6 |
| | **Average** | 8.8 | 20.9 | 22.5 | 20.3 | 16.2 | 8.6 |
| | **Change** | 2.0 | 2.6 | 3.2 | 2.2 | 2.7 | 7.6 |
| | **5th %ile** | 22.9 | 25.0 | 25.0 | 24.6 | 24.5 | 25.0 |
| | **Change** | 16.1 | 6.7 | 5.7 | 6.5 | 11.0 | 24.0 |
| Main Stream outlet into Northern Arm Brook near Bay of Exploits | | | | | | | |
| **J2 (°C)** | **95th %ile** | 7.3 | 19.0 | 20.4 | 19.0 | 14.5 | 3.2 |
| | **Change** | 0.5 | 0.7 | 1.1 | 0.9 | 1.0 | 2.2 |
| | **Average** | 8.6 | 20.4 | 22.3 | 20.2 | 15.9 | 7.7 |
| | **Change** | 1.8 | 2.2 | 3.0 | 2.1 | 2.4 | 6.7 |
| | **5th %ile** | 23.6 | 24.9 | 25.0 | 24.5 | 24.5 | 25.0 |
| | **Change** | 16.8 | 6.7 | 5.7 | 6.4 | 11.0 | 24.0 |

Notes:

- Baseline data was calculated from the seasonal average of field measurements from Peters Pond Inlet WQM-3 (Strum, 2026). Winter temperatures were presumed to be near freezing.
- The "95th %ile," "Average," and "5th %ile" are the selected modeled seasonal flow conditions with the temperature effects of the reject water of 3.5 $m^3$/min included.
- The "Change" row indicates the change (°C) in temperature from "Baseline" seasonal average data from Peters Pond Inlet WQM-3 (Strum, 2026).

Table 9 Estimated TSS from mixing the flow of reject water with seasonal streamflow.

| Location | Case | Spring Mar-May | Summer Jun-Aug | July | August | Fall Sep-Nov | Winter Dec-Feb |
|---|---|---|---|---|---|---|---|
| TSS Concentration Input Data | | | | | | | |
| **Baseline** | **mg/L** | 10.2 | 5.9 | 2.6 | 2.5 | 6.8 | 1.0 |
| **Reject Water** | **mg/L** | 33.7 | 19.3 | 8.2 | 7.9 | 22.3 | 2.9 |
| Discharge Creek (WC15-104) flowing north from the plant site | | | | | | | |
| **J1 (mg/L)** | **95th %ile** | 14.3 | 12.2 | 3.7 | 3.2 | 13.3 | 1.8 |
| | **Change** | 40% | 107% | 40% | 28% | 95% | 81% |
| | **Average** | 21.2 | 16.4 | 5.5 | 4.2 | 17.2 | 2.4 |
| | **Change** | 108% | 177% | 113% | 67% | 152% | 138% |
| | **5th %ile** | 33.4 | 19.2 | 8.2 | 7.5 | 22.2 | 2.9 |
| | **Change** | 227% | 226% | 216% | 201% | 226% | 188% |
| Junction of the Discharge Creek (WC15-104) and the Main Stream | | | | | | | |
| **J6 (mg/L)** | **95th %ile** | 10.9 | 7.6 | 3.8 | 3.2 | 8.3 | 1.2 |
| | **Change** | 7% | 29% | 45% | 28% | 23% | 20% |
| | **Average** | 12.8 | 11.0 | 5.8 | 4.2 | 10.4 | 1.6 |
| | **Change** | 25% | 87% | 123% | 69% | 53% | 59% |
| | **5th %ile** | 30.9 | 19.2 | 8.2 | 7.6 | 21.6 | 2.9 |
| | **Change** | 203% | 226% | 216% | 203% | 218% | 188% |
| Main Stream outlet into Northern Arm Brook near Bay of Exploits | | | | | | | |
| **J2 (mg/L)** | **95th %ile** | 10.8 | 7.3 | 3.7 | 3.2 | 8.1 | 1.2 |
| | **Change** | 6% | 24% | 40% | 28% | 19% | 17% |
| | **Average** | 12.6 | 10.2 | 5.5 | 4.2 | 10.0 | 1.5 |
| | **Change** | 23% | 73% | 113% | 67% | 47% | 53% |
| | **5th %ile** | 31.9 | 19.2 | 8.2 | 7.5 | 21.6 | 2.9 |
| | **Change** | 7% | 6% | 106% | 206% | 7% | 107% |

Notes:

- Baseline data was calculated from the seasonal average of laboratory analytical data from Peters Pond Inlet WQM-3 (Strum, 2026).
- The "95th %ile," "Average," and "5th %ile" are the selected modelled seasonal flow conditions with the reject water of 3.5 $m^3$/min included.
- The "Change" row indicates the percent increase of the "Baseline" seasonal average data from Peters Pond Inlet WQM-3 (Strum, 2026).

The pre-treatment water reject (5% of the total, or 14,250 kg/h) and the demineralization water (30% reject, or 70,750 kg/h) were used to calculate a final concentration of reject water for each season. This calculated sample conservatively ignores other sources of water that contain less dissolved and suspended solids, organics and metals.

The assumption that the reject flow will be 3.5 $m^3$/min, or 0.058 $m^3$/s was also used for this calculation. The other assumptions were:

1. Pre-treatment of raw water removes approximately 48.2% of inorganics and metals at a reject rate of 5%;
2. Demineralization of pre-treated water removes 98.4% of all inorganics and metals with a reject rate of 30%; and
3. Where parameters in raw water were not detected above the reported detection limit, they were conservatively taken as the RDL because their absence cannot be assumed.

The above data are calculated from the analytical data for samples collected by Strum, and referencing the data provided by the Client for concentration of the flows of reject water. Further monitoring of the raw water may be necessary, as well as laboratory analysis of treated water from a filtration trial to ensure that flagged metals with CCME FWAL guidelines similar to RDLs are not exceeding guideline values.

### 4.7.5 Impacts of Plant Water Discharge on Stream Velocity, Erosion and Habitat

The impact of adding 3.1 $m^3$/min of plant operations water at the plant boundary has been examined by computing the cross-sectional area of the stream channel at three locations (**Figure 26**), at the northern plant boundary (J1-3) (**Figure 31**), near the discharge of the Main Stream into Northern Arm Brook (J2-2) (**Figure 32)**, with a third location at the point where the Discharge Creek and the Main Stream join (J6-2) (**Figure 33**), about 1 km down-gradient from the plant boundary. The pre-existing access road and culverts near the outlet are shown in **Figure 34**, and the point at which the outlet meets Northern Arm Brook is shown in **Figure 35**.

The selected stream channel at the plant boundary has a cross sectional area of approximately 1 $m^2$ and this section of the stream has a stream bed gradient of approximately 0.001. With a full channel, the water velocity would be increased by no more than 3 m/min since with the relatively flat ground surface adjacent to the stream, once the channel is full at higher flows, the water will spread out over the adjacent area.

The selected channel at the point where the Discharge Creek and the Main Stream merge has a cross-sectional area of 1.5 $m^2$, which, if the channel is full, will produce an increase in water velocity of 2 m/min. At the point just upstream on where the Main Stream discharges into Northern Arm Brook, the cross-sectional area of the selected stream channel is approximately 24 $m^2$. An additional 3.1 $m^3$/min of water would increase the flow velocity by no more than 0.13 m/min.

# 5.0 SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

## 5.1 Summary

The stream cross-sections and the high resolution LiDAR imagery and digital terrain data have been used to delineate the channel/stream sections as the base of the hydrology model for short time storm simulation to calculate average flow velocities for those representative channels in this stream.

The latest update on the IDF data for Badger by NRCan in 2022 was used to generate 24-hour period synthetic hyetographs for 1:100 and 1:20 AEP rainfall events. Then land cover and soil survey data from NRCan were used to generate an infiltration map to incorporate the rainfall-runoff relationship into the hydrology models for the hydrologic/hydraulic models for the Discharge Creek drainage basin.

The water velocity where erosion starts to occur will depend on the channel width, depth, and stream bed and bank material composition. Based on the streamflows that were calculated for low flow, average, and high flow periods, the addition of 3.1 $m^3$/min of plant operations water will have no significant contribution to stream bank or stream bed erosion, stream bank stability, or produce any physical alteration of the stream habitat when compared to natural conditions. The peak flows as part of the normal runoff, are more than 10 times the plant operations discharge water flow. Stream flows for 1:20 flood events were 0.44 $m^3$/s (26.4 $m^3$/min) during modelling.

While iron and aluminum levels in the proposed surface water source exceed FWAL guidelines under normal conditions, the discharge of 3.1 $m^3$/min of plant operations water will increase the exceedance for those components. Likewise, while summer temperatures in low flow streams can exceed 24°C, the addition of the plant discharge operations water will result in higher water temperatures than normal for periods with low to average flows, and may require mitigation. It is anticipated that continuous monitoring of water temperature, organics, and metal concentrations will be required by Regulators. Any release of water is expected to have quantity and quality thresholds/limits as a deleterious substance (e.g., temperature, inorganics, and metal concentrations). Monitoring of normal temperature conditions and temperature effects in the Discharge Creek will determine when mitigation is required during operations.

It should be noted that the observations presented by this analysis are based on inferred data. It is recommended that field studies on the Discharge Creek and Main Stream to measure streamflows, water chemistry, and water temperature be conducted for the April to November period.

Also, the current HMS and RAS models should be properly calibrated using measured flow data for at least one full year, including the winter months. For more reliable future predictions, a minimum of four to five years of flow and climate data should be obtained to validate the model.

Since the closest climate stations with current data are at either Badger or Gander, the corresponding climate data should be estimated using spatial interpolation and statistical methods for model calibration. In addition, the estimated climate data can be compared with the available data from the Botwood station for verification. For proper calibration of the drainage basin model, upstream and downstream flow measurements are required for both the Discharge Creek and the Main Stream. With the calibrated HMS model, the flow hydrographs from upstream and downstream locations can be used as the boundary conditions in the RAS model to confirm model predictions and increased confidence in the flood map.

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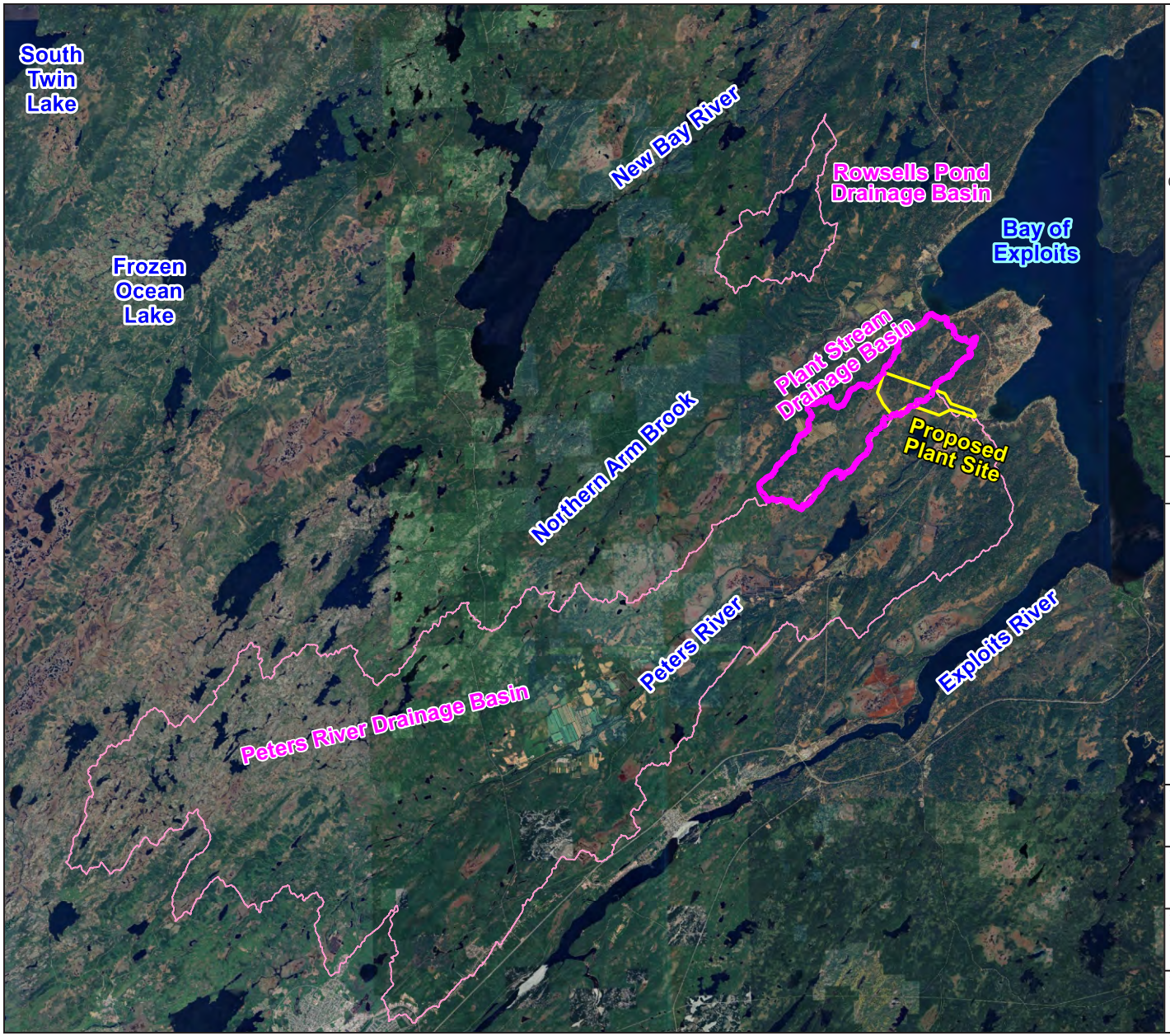



N

0 2 4 6 8

Scale, km

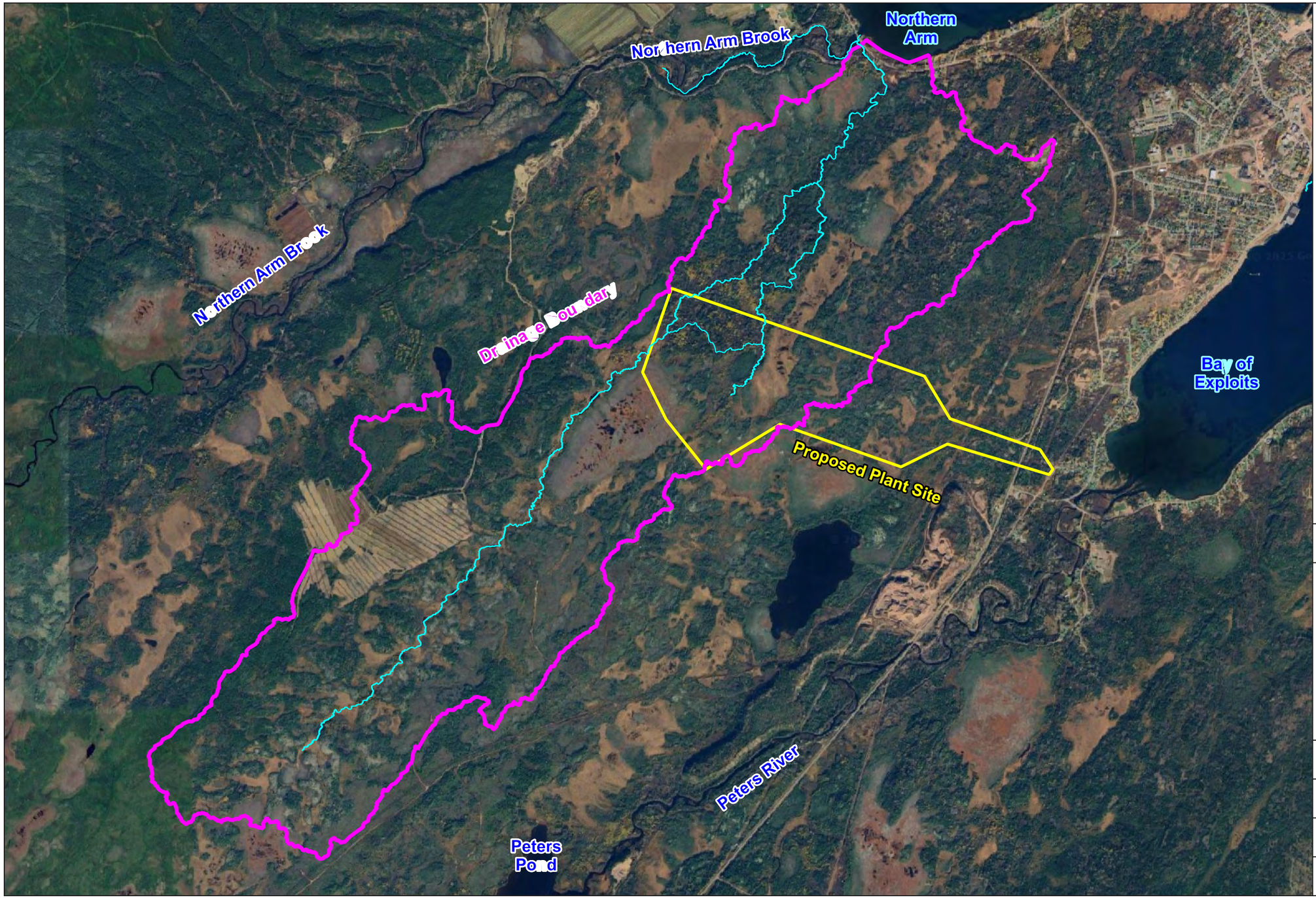
Note: Base orthorectified image(s) by Google Earth (2025).

Figure 1

Location of the proposed plant site and plant drainage basin with surrounding water bodies and drainage basins.

| | |
|---|---|
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Project No. | 3191-8 |
| Date | September 2025 |

FFC




Legend

Model boundary

Outline of proposed plant site

0 500 1000

Scale, m

Note: Base orthoimage by Google Earth, 2025.

Figure 2

Outline of the drainage basin and the proposed plant site.

| | |
|---|---|
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Project No. | 3191-8 |
| Date | September 2025 |

FFC

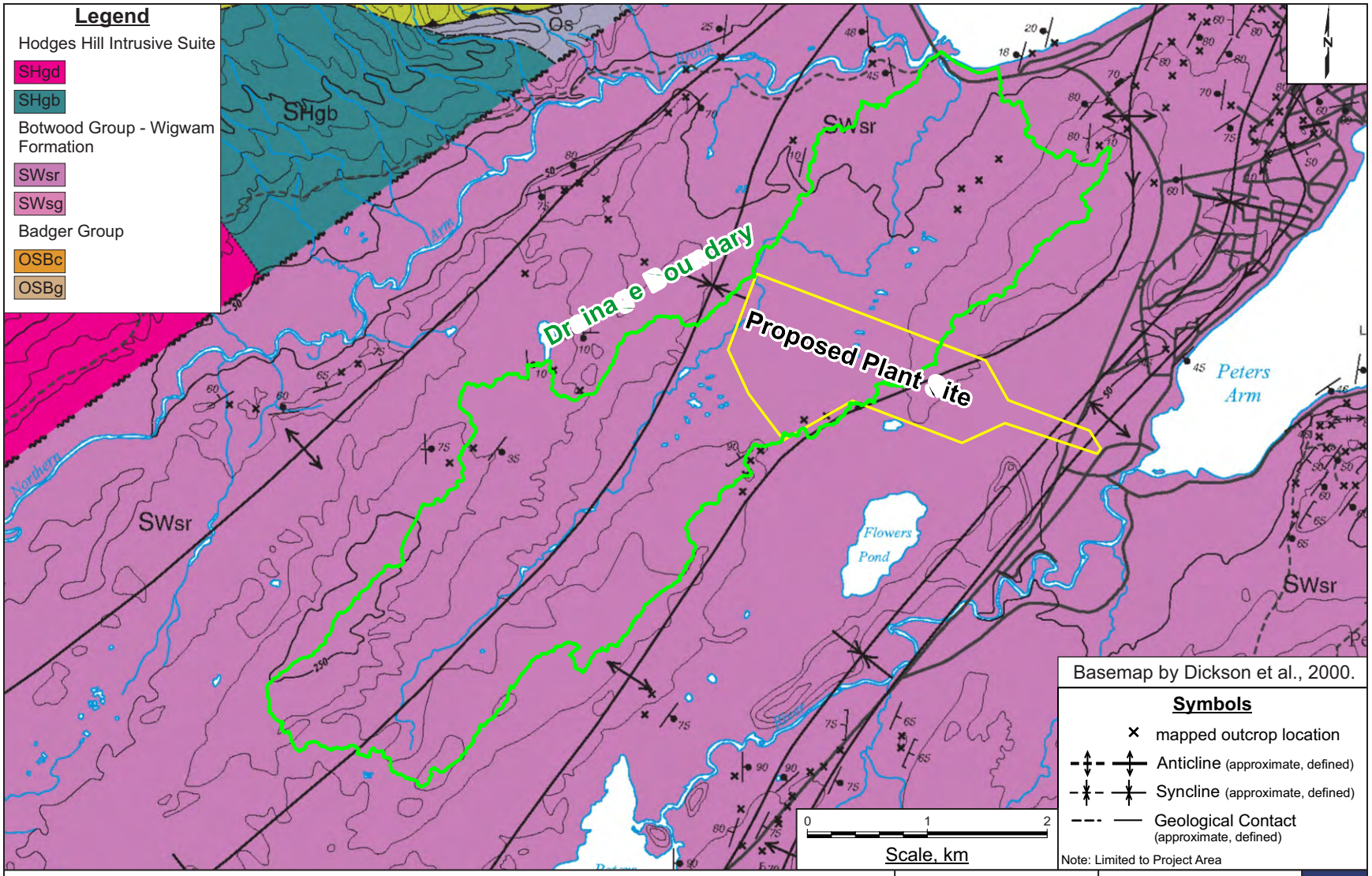



Figure 3 Bedrock geology map of the proposed plant site and its drainage basin.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | September 2025 |

FFC

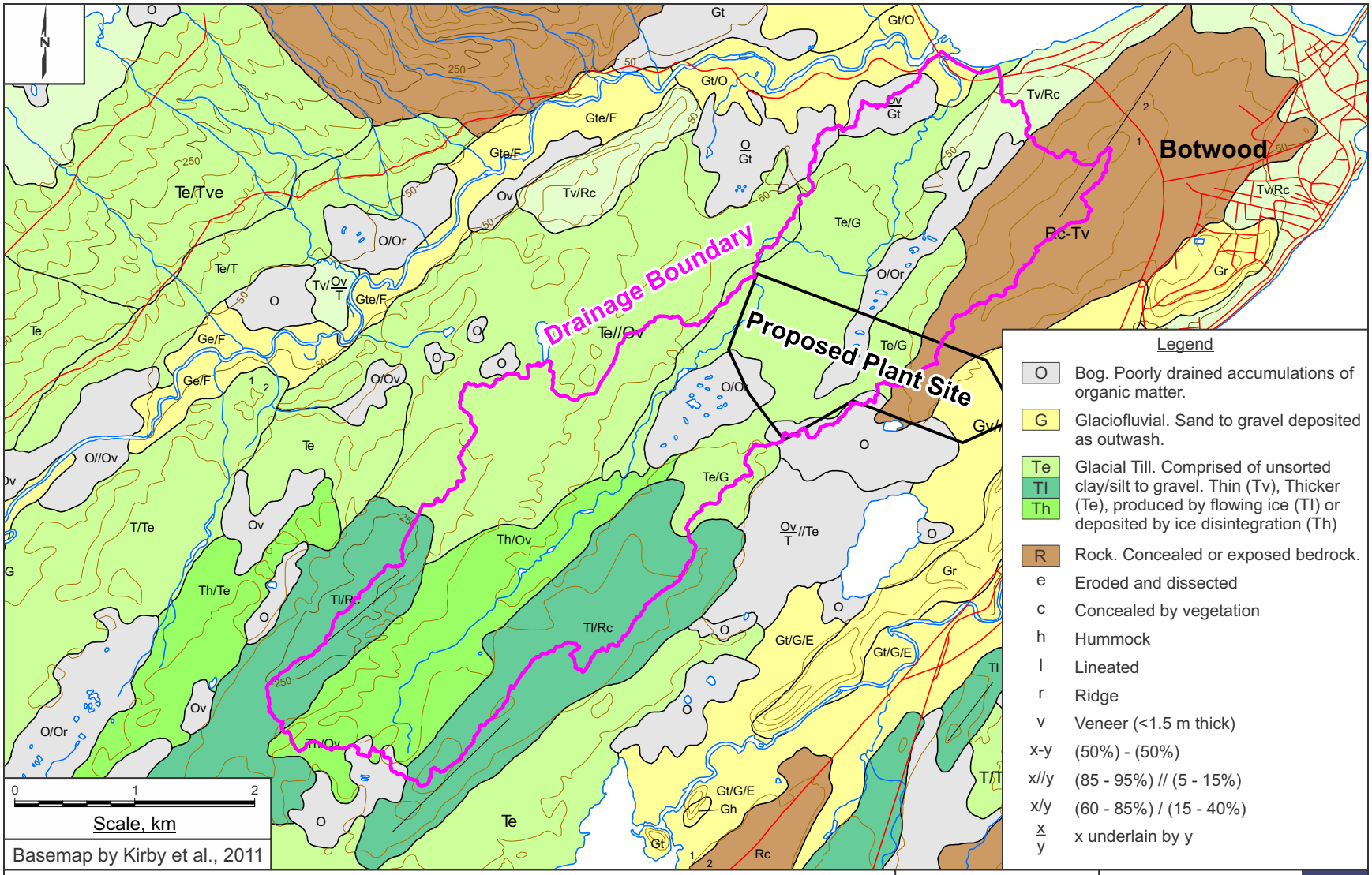



Figure 4 Surficial geology map for the study area.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | September 2025 |

FFC

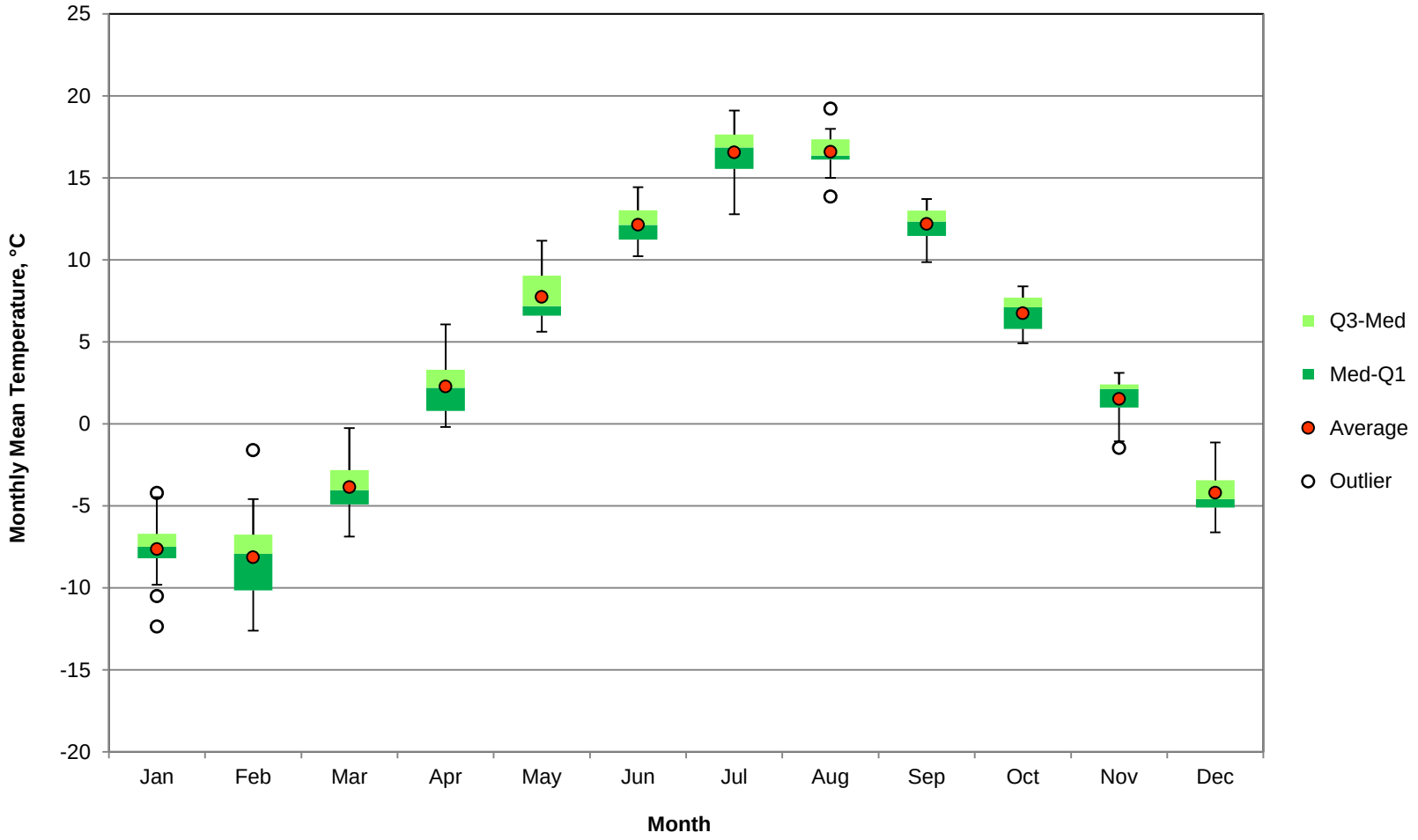



Figure 5 Monthly mean temperature from January 1980 to June 1995 at the *Botwood* climate station (EC, 2025).

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | September 2025 |

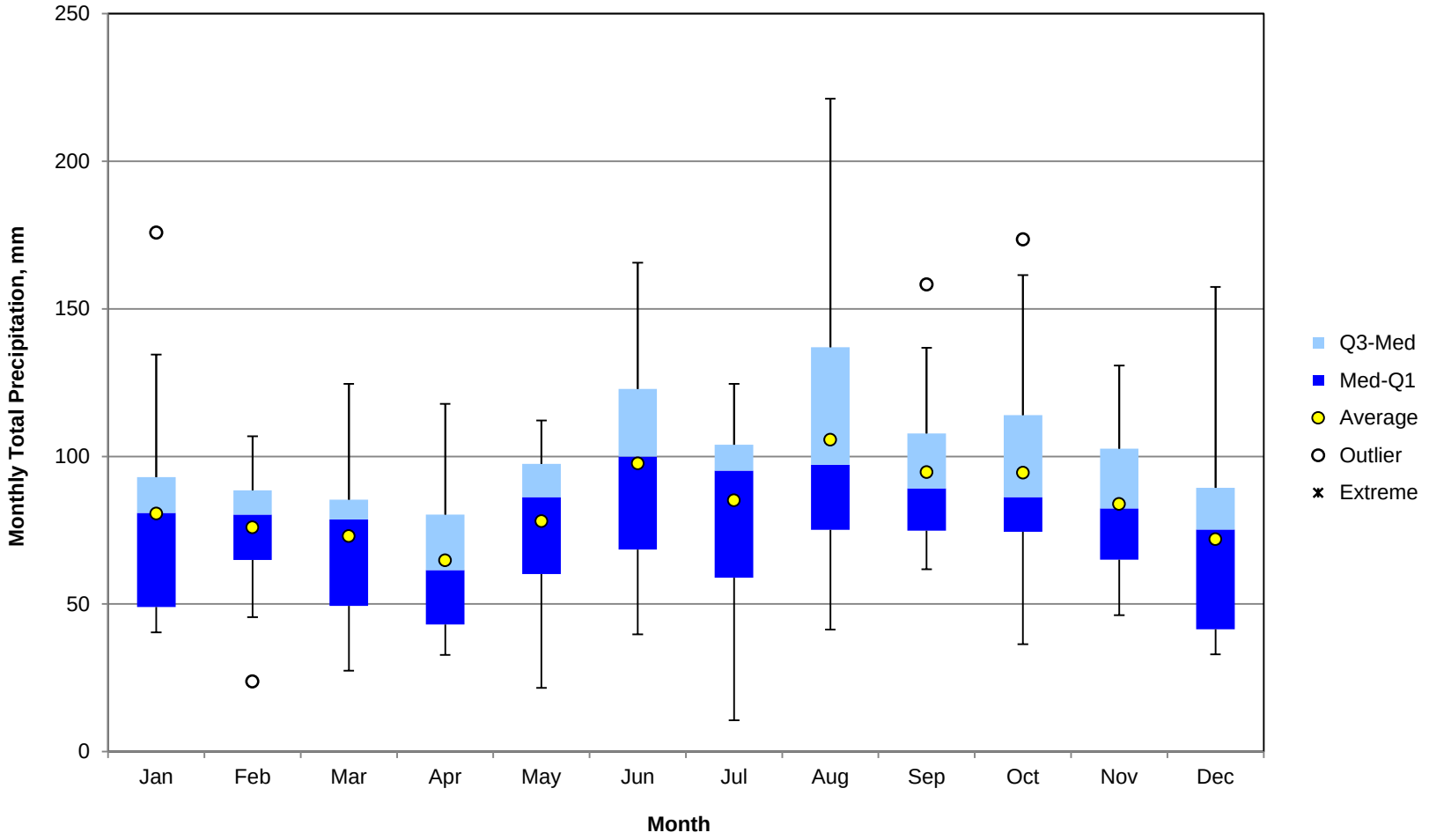



Figure 6 Monthly total precipitation from January 1980 to June 1995 at the *Botwood* climate station (EC, 2025).

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
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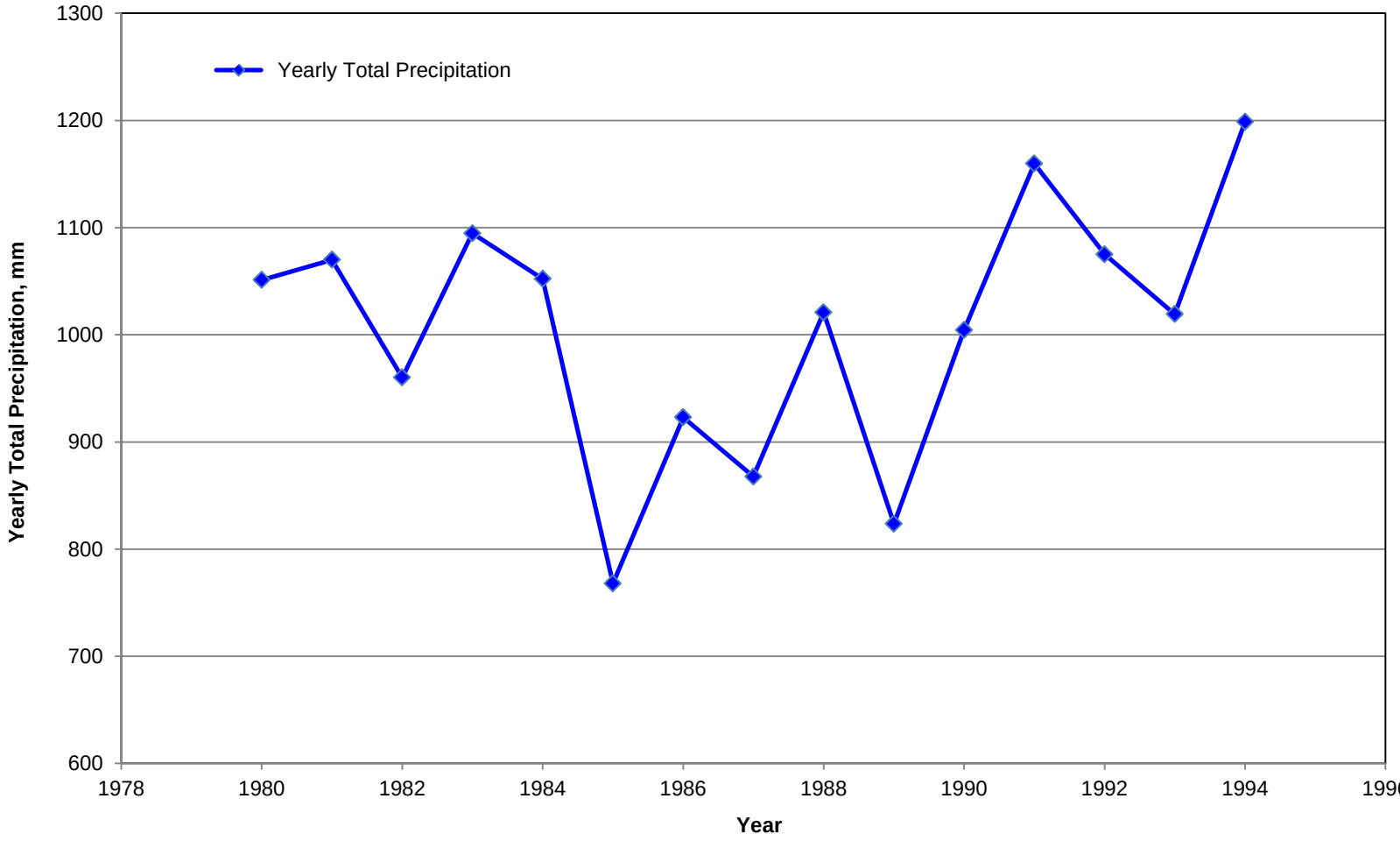


Figure 7 Yearly total precipitation January 1980 to June 1995 at the *Botwood* climate station (EC, 2025).

| Project No. | Document Reference |
|---|---|
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| Location | Date |
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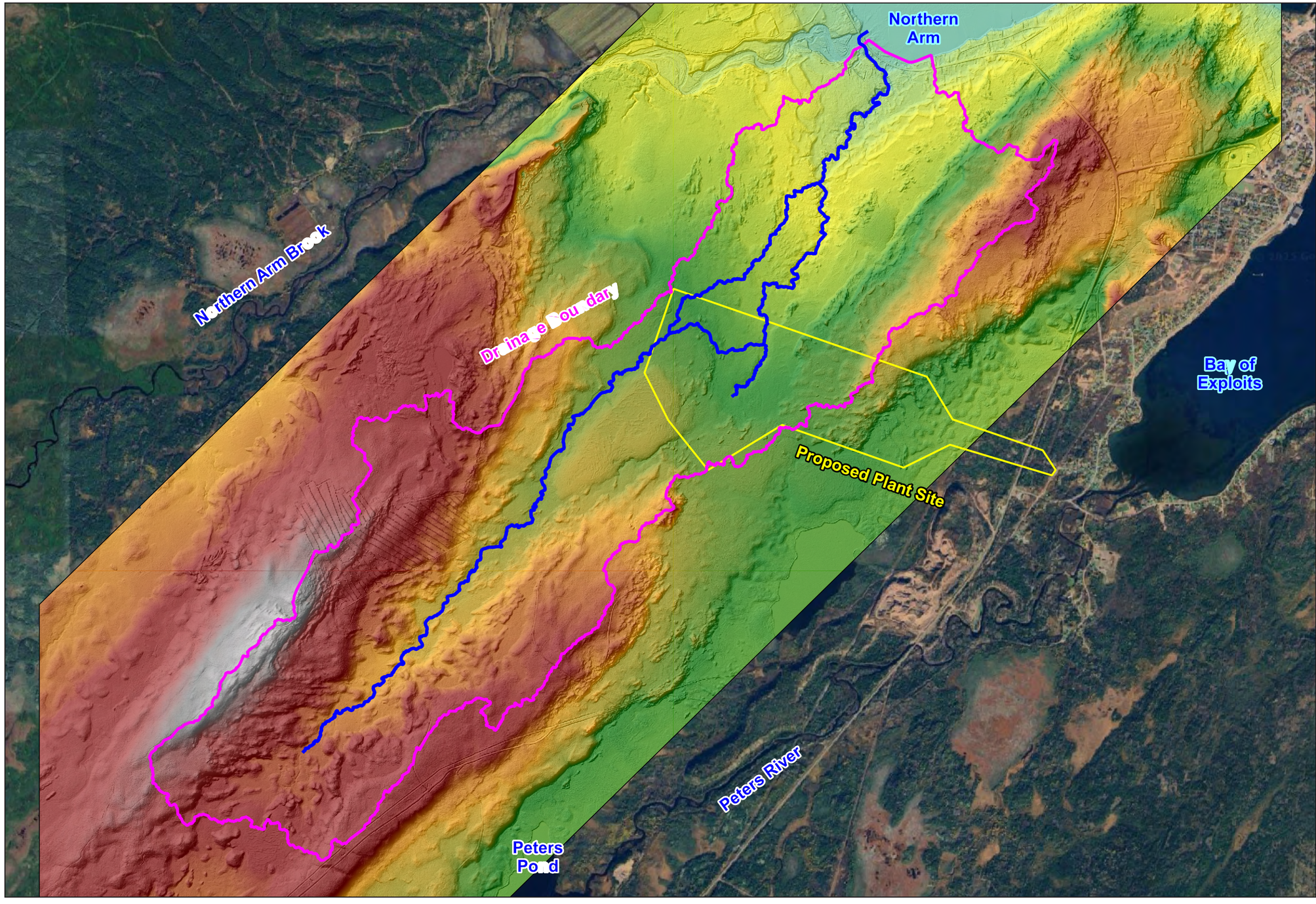
FFC




N

Legend

Elevation, m

0 20 40 60 80 100

Legend

Model boundary

Outline of proposed plant site

0 500 1000

Scale, m

Note

- Digital elevation data provided by the Client.
- Base orthoimage by Google Earth (2025).

Figure 8

Digital elevation model of the drainage basin based on the aerial survey.

Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
March 2026

FFC

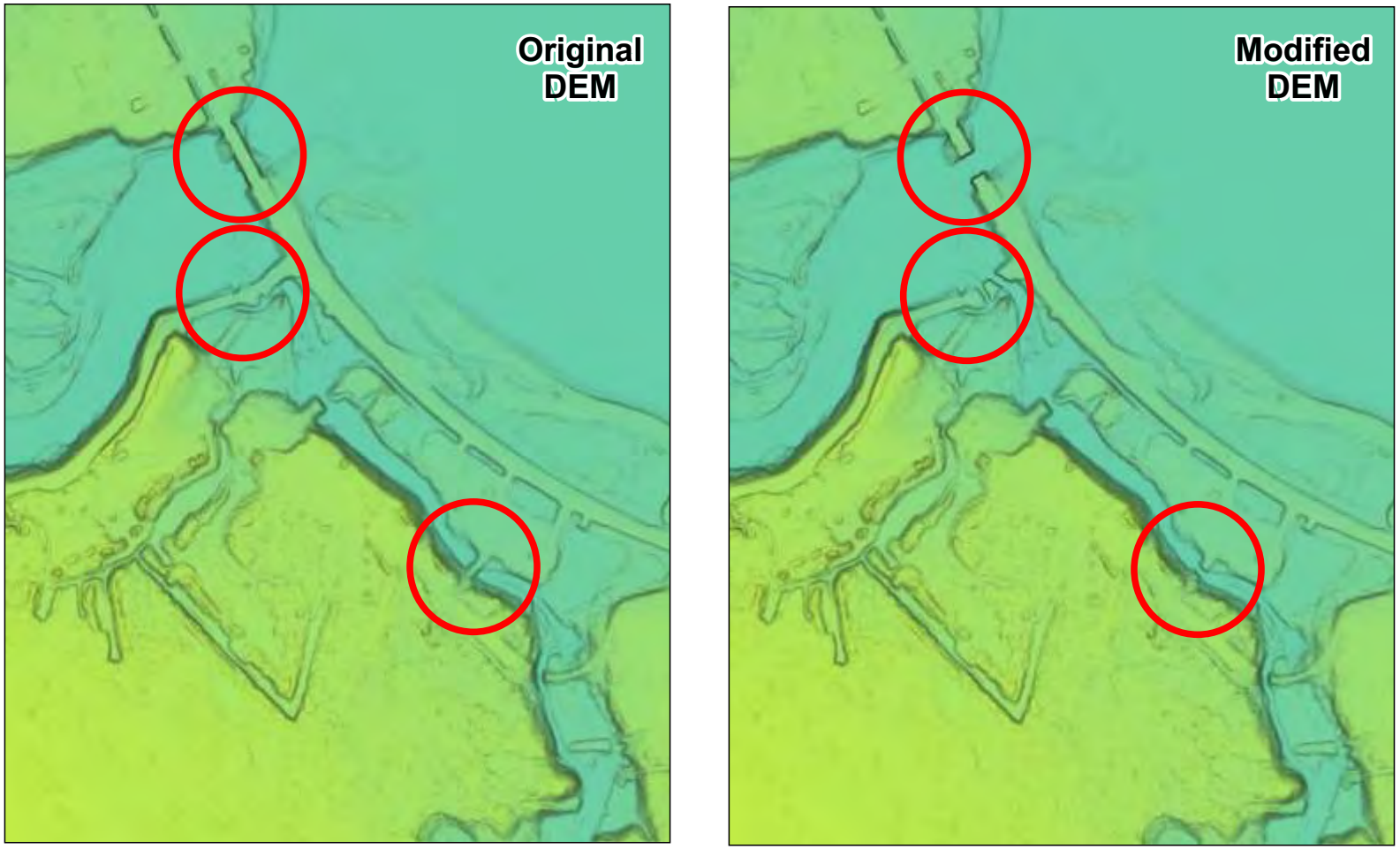
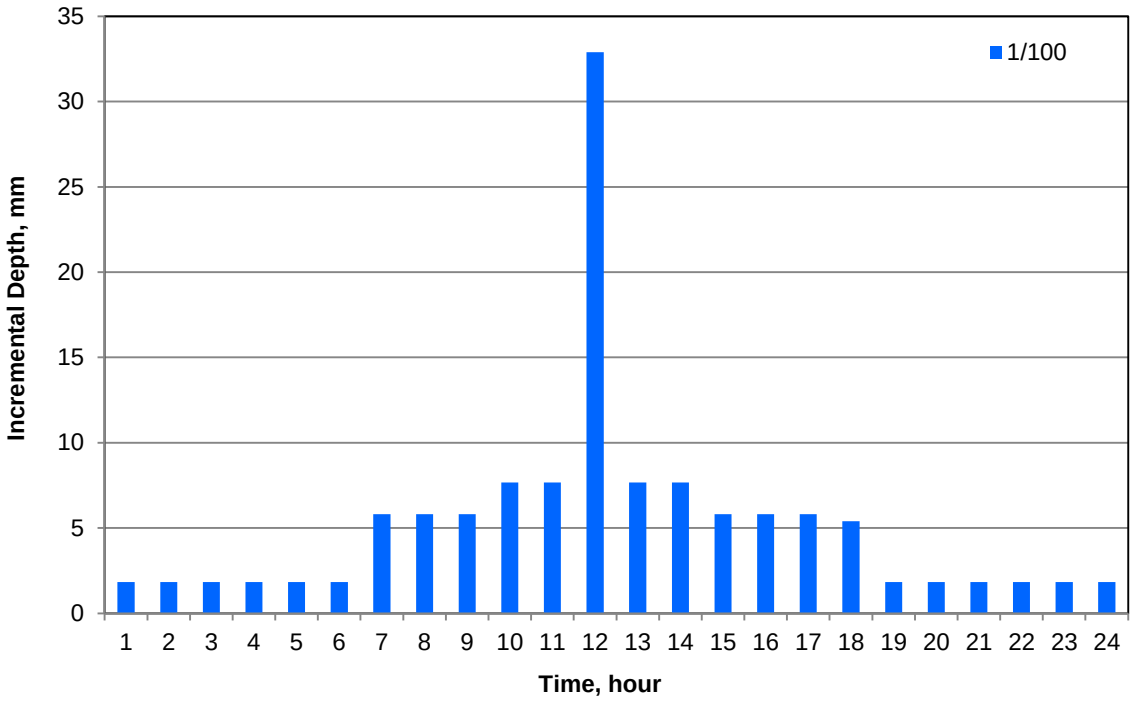



Figure 9 Example of DEM modification.

| | |
|---|---|
| Project No. 3191-8 | Document Reference FFC-NL-3191-8-002 |
| Location Botwood, NL | Date September 2025 |

FFC



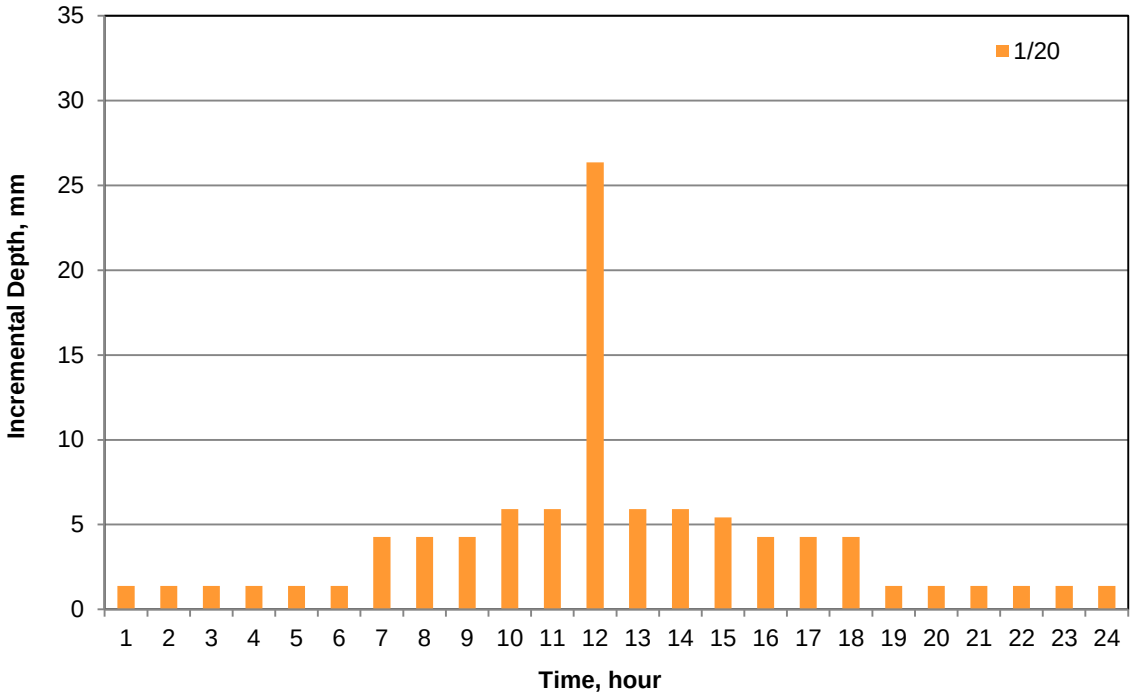
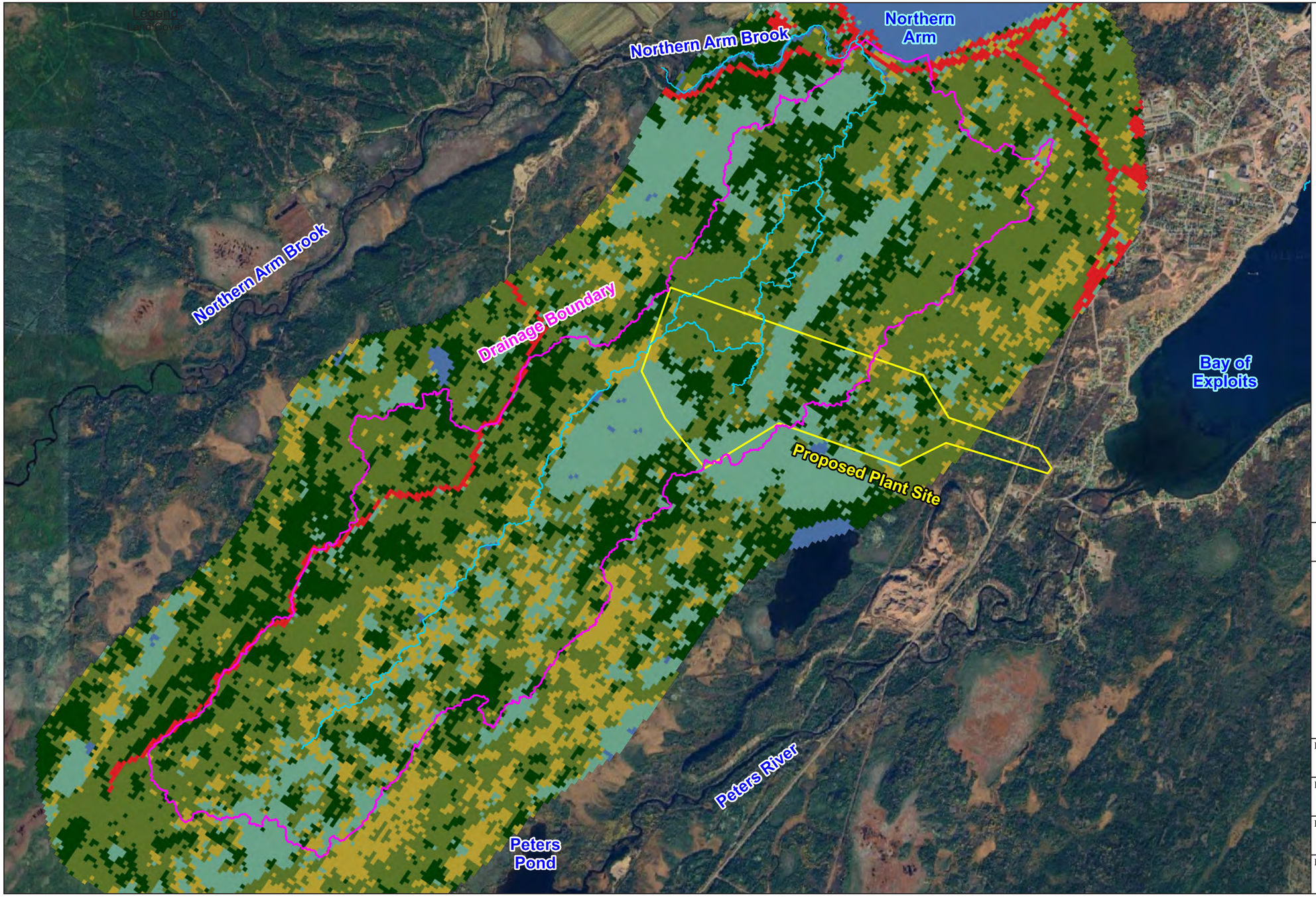




Figure 10 Synthetic hyetographs for 1:100 AEP (top) and 1:20 AEP (bottom) events.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | September 2025 |

FFC




N

Legend
Landcover

- Needleleaf forest
- Mixed forest
- Shrubland
- Wetland
- Barren lands
- Urban
- Water

Model boundary

Outline of proposed plant site

0 500 1000

Scale, m

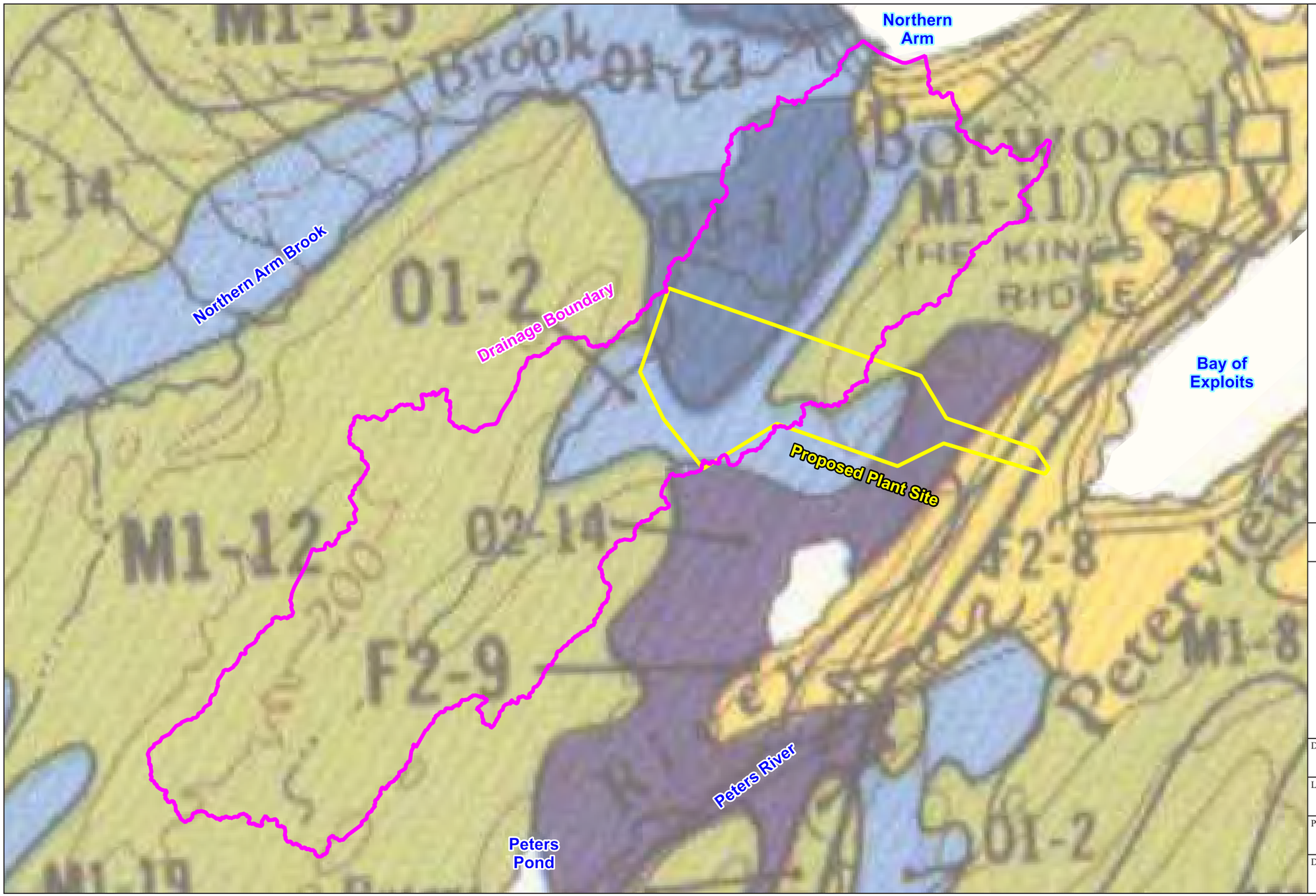
Note: Base orthoimage by Google Earth, 2025.

Figure 11

Land cover map of the study area based on the 30 m Landsat database from '2020 Land Cover of Canada' (NRCan).

| | |
|---|---|
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Project No. | 3191-8 |
| Date | March 2026 |

FFC




N

Model boundary

Outline of proposed plant site

0 500 1000

Scale, m

Note: Base orthoimage by Google Earth, 2025.

Figure 12

Soil survey map of the Botwood area (Sudom and Webber, 1985).

Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC

## LEGEND

| [1]DOMINANT ASSOCIATION (>50%) | [2]PARENT MATERIAL | [3]LANDFORMS | MAP UNIT | [4]SIGNIFICANT CHARACTERISTICS |
|---|---|---|---|---|
| **CENTRAL PEDOCLIMATIC ZONE** | | | | |
| SOILS DEVELOPED ON MORAINAL DEPOSITS (MAP UNITS PREFIXED BY "M") | | | | |
| Alderburn | Moderately stony moderately coarse to coarse textured light olive brown glacial till derived from reddish sandstone, minor medium grained granite | Undulating to rolling thin morainal blankets to very thin veneers with exposed red, green, and gray clastic sedimentary bedrock | M1 | Mostly imperfectly drained soils with lateral water movement over slightly cemented and compact subsoil. Surface stoniness varies widely, with wet sites being more stony than the drier sites |
| SOILS DEVELOPED ON GLACIOFLUVIAL DEPOSITS (MAP UNITS PREFIXED BY "F") | | | | |
| Pitt's Pond | Coarse textured well stratified light brownish gray glacial fluvial sands and gravels of mixed origin | Undulating raised terraces, remnant eskers, and kame terraces | F1 | Well and imperfectly drained soils; moderately stony surface. Strongly cemented subsoils are common |
| Peter's Arm | Coarse to moderately coarse textured stratified yellowish brown glacial fluvial sands and gravels derived from reddish sandstone and some granite | Glaciofluvial terraces | F2 | Well to imperfectly drained soils, usually lacking cemented subsoil horizons; moderately stony surface |
| SOILS DEVELOPED ON ORGANIC DEPOSITS (MAP UNITS PREFIXED BY "O") | | | | |
| Deadwolf Pond | Deep undecomposed sphagnum peat underlain by unconsolidated material or bedrock | Domed, sloping, and blanket bogs | O1 | Poorly drained fibrous and porous soils, generally deep. Domed bog shows signs of droughtiness in late summer |
| Mint Pond | Shallow (40-160 cm) moderately decomposed sedge fen peat underlain by unconsolidated material or bedrock | Sloping and horizontal fens | O2 | Very poorly drained soils; generally shallow; often associated with open water; having a greater variety of vegetation than bogs |
| Michael's Harbour | Shallow (40-160 cm) well decomposed sedge fen peat underlain by unconsolidated material or bedrock | Sloping and horizontal fens | O3 | Very poorly drained soils often associated with percolating groundwater or streams; less acidic and with a greater variety of vegetation than bogs |

Figure 12 - Legend

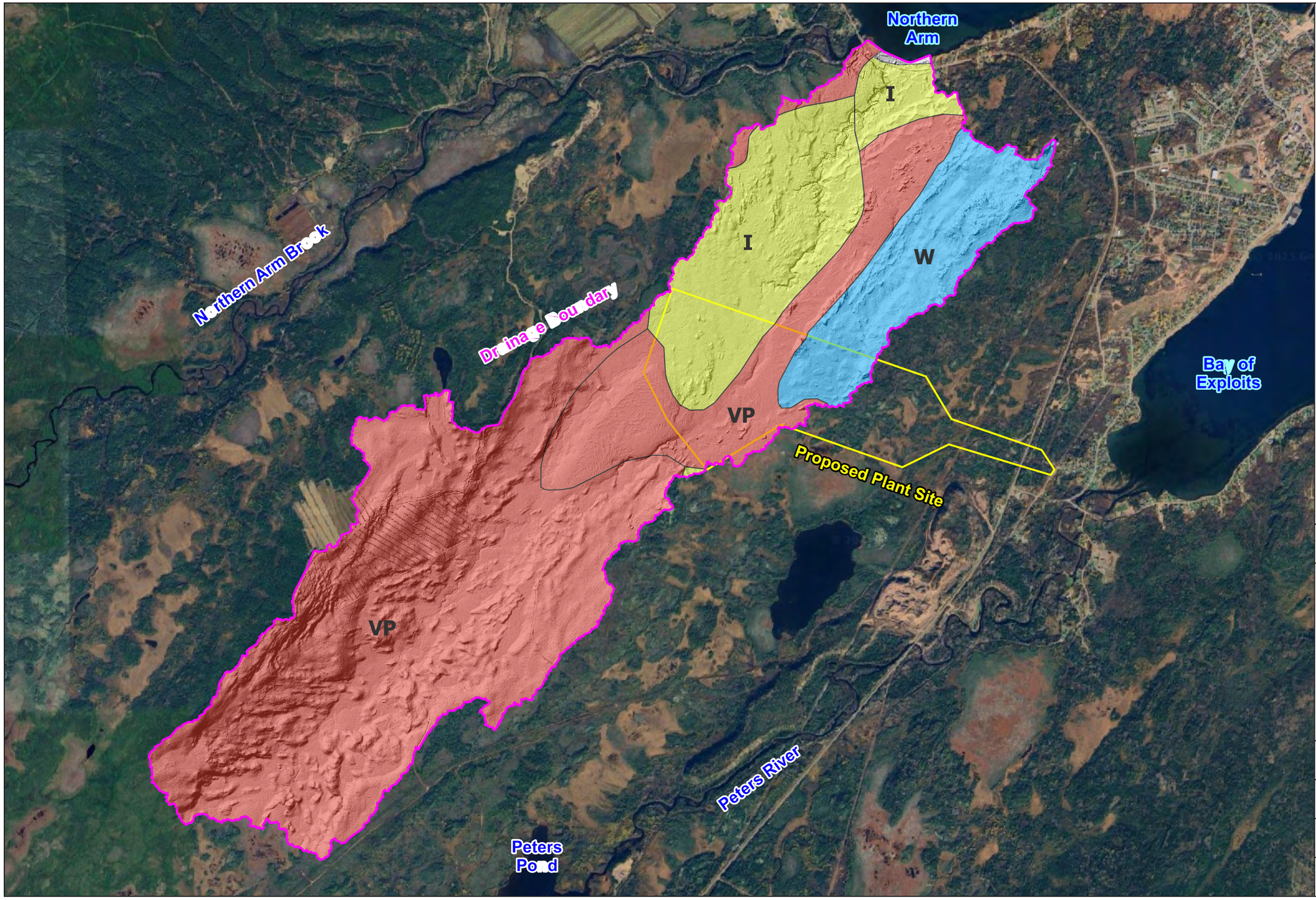
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




N

Legend

Drainage Type - HSG

- W (Well drained) - A
- I (Imperfectly drained) - B
- VP (Very poorly drained) - D

- Model boundary
- Outline of proposed plant site

0 500 1000

Scale, m

Note: Base orthoimage by Google Earth, 2025.

Figure 13

Map of the Hydrologic Soil Group (HSG) at the study site.

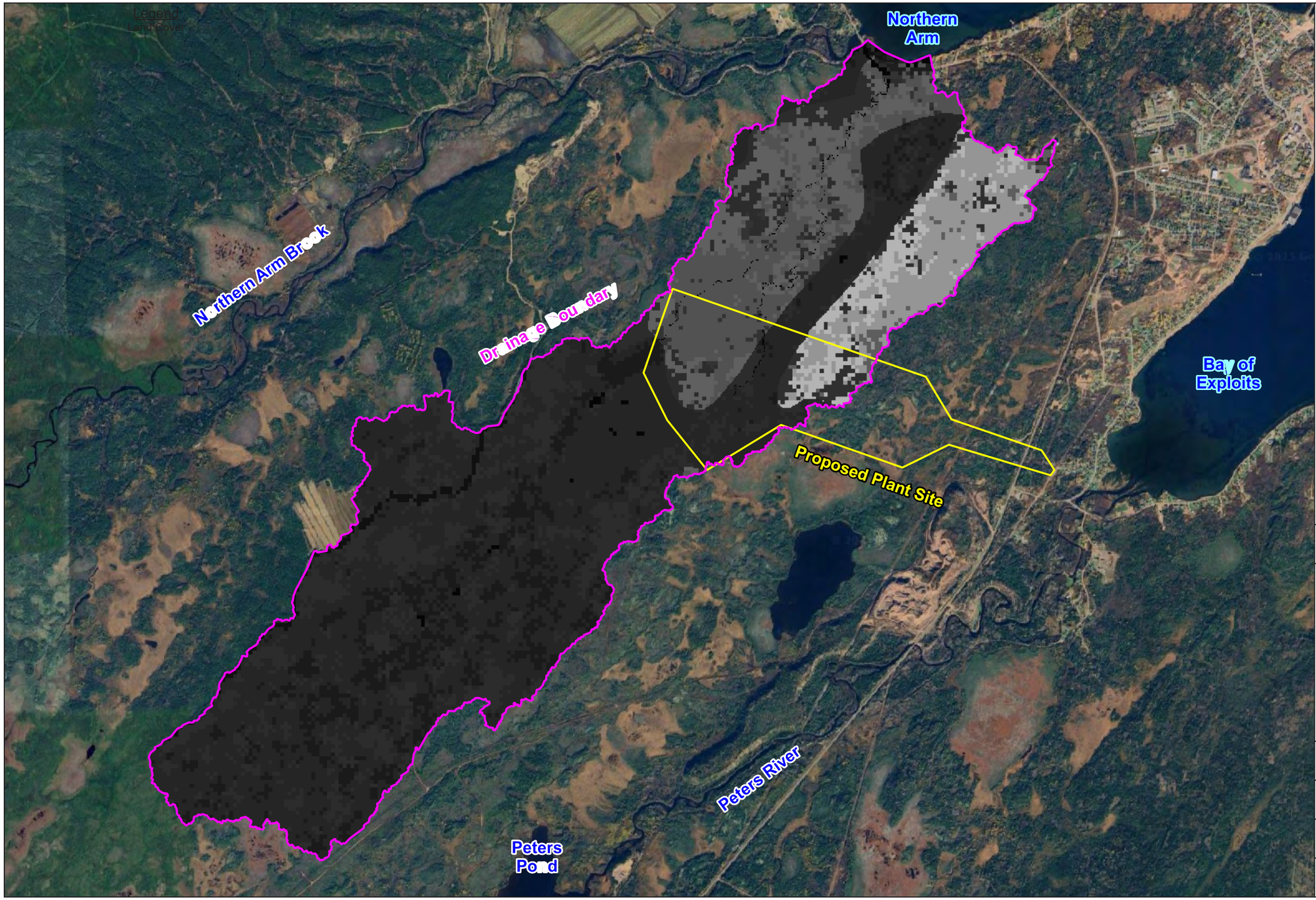
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




Legend
Curve Number
30 40 50 60 70 80 90 100

Legend
Model boundary
Outline of proposed plant site

0 500 1000
Scale, m

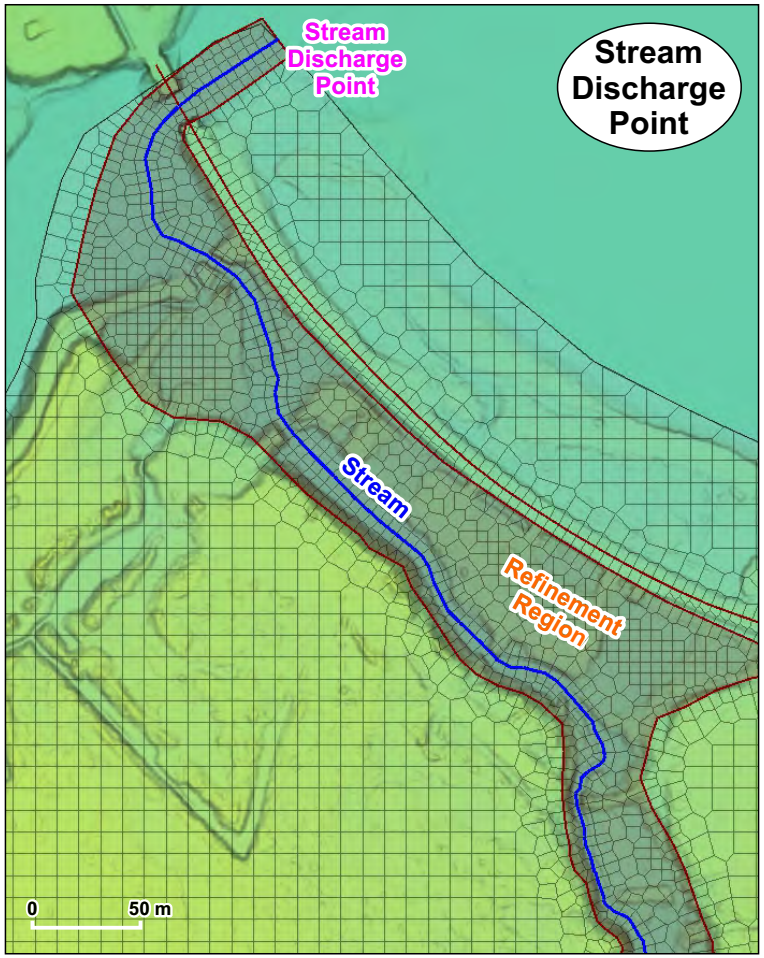
Note: Base orthoimage by Google Earth, 2025.

Figure 14

Curve number map of the study area that was used in the flood analysis model.

| | |
|---|---|
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Project No. | 3191-8 |
| Date | September 2025 |

FFC



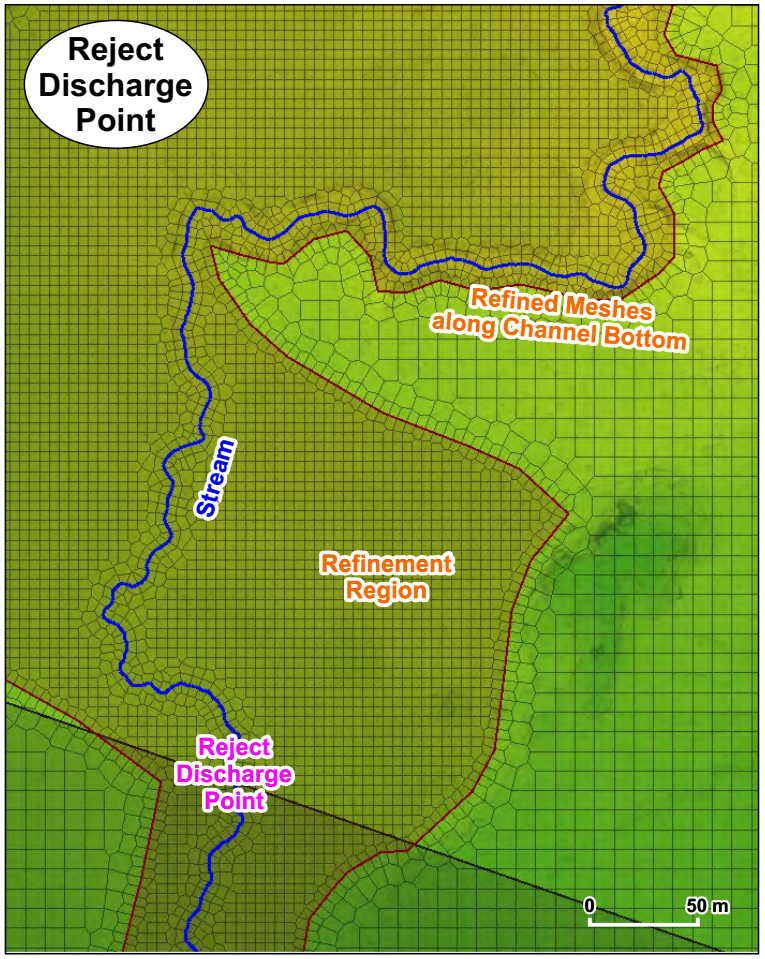
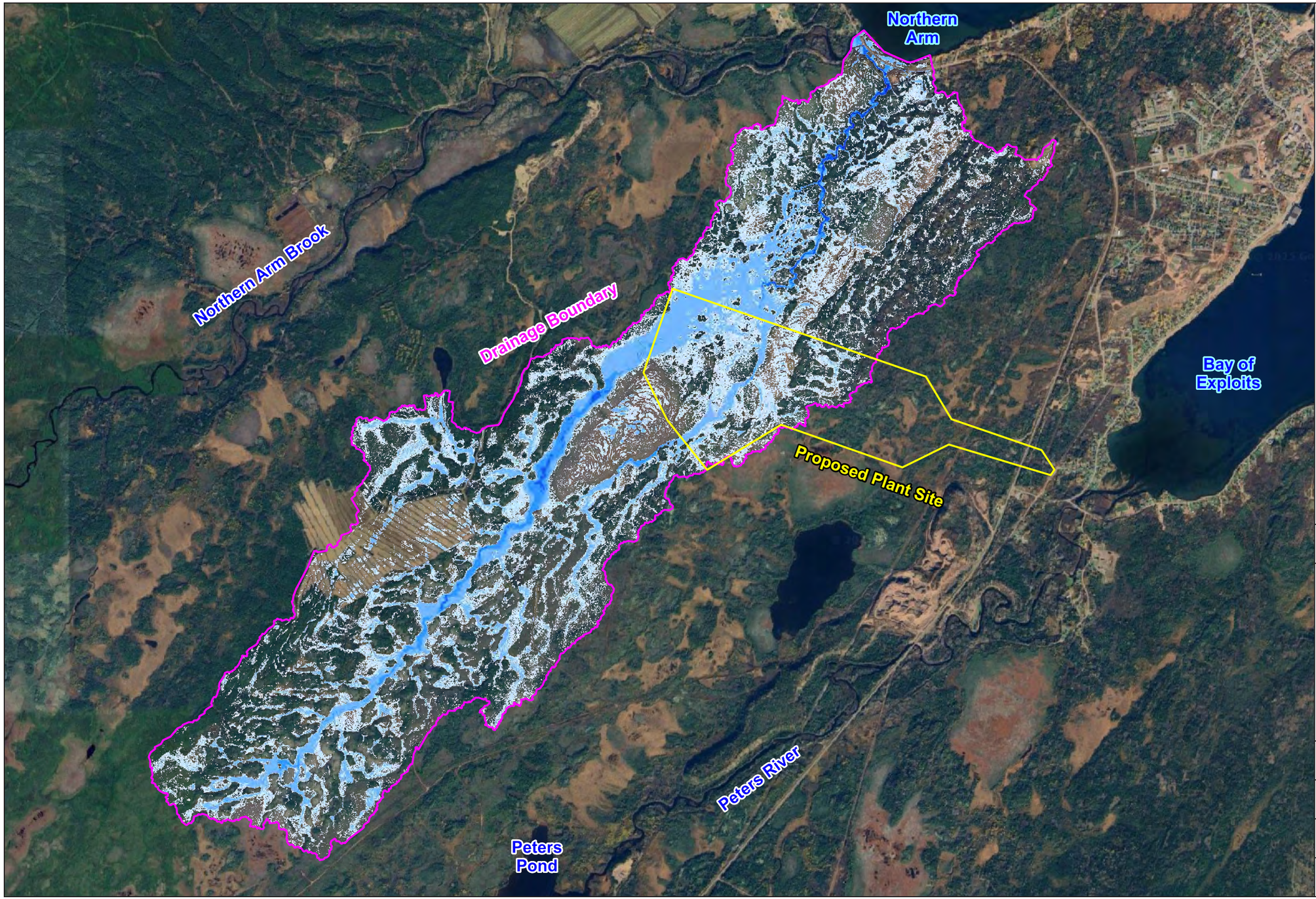




Figure 15 Model mesh scheme for HEC-RAS 2D modeling showing the refined meshes along the stream bottom and areas of expected flood plains.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | September 2025 |

FFC




N

Legend
Flood Extent

- < 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- > 2.0 m

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 16a

Inundation map of the area near the proposed plant site under the 1:20 year return period rainfall event without plant outflow.

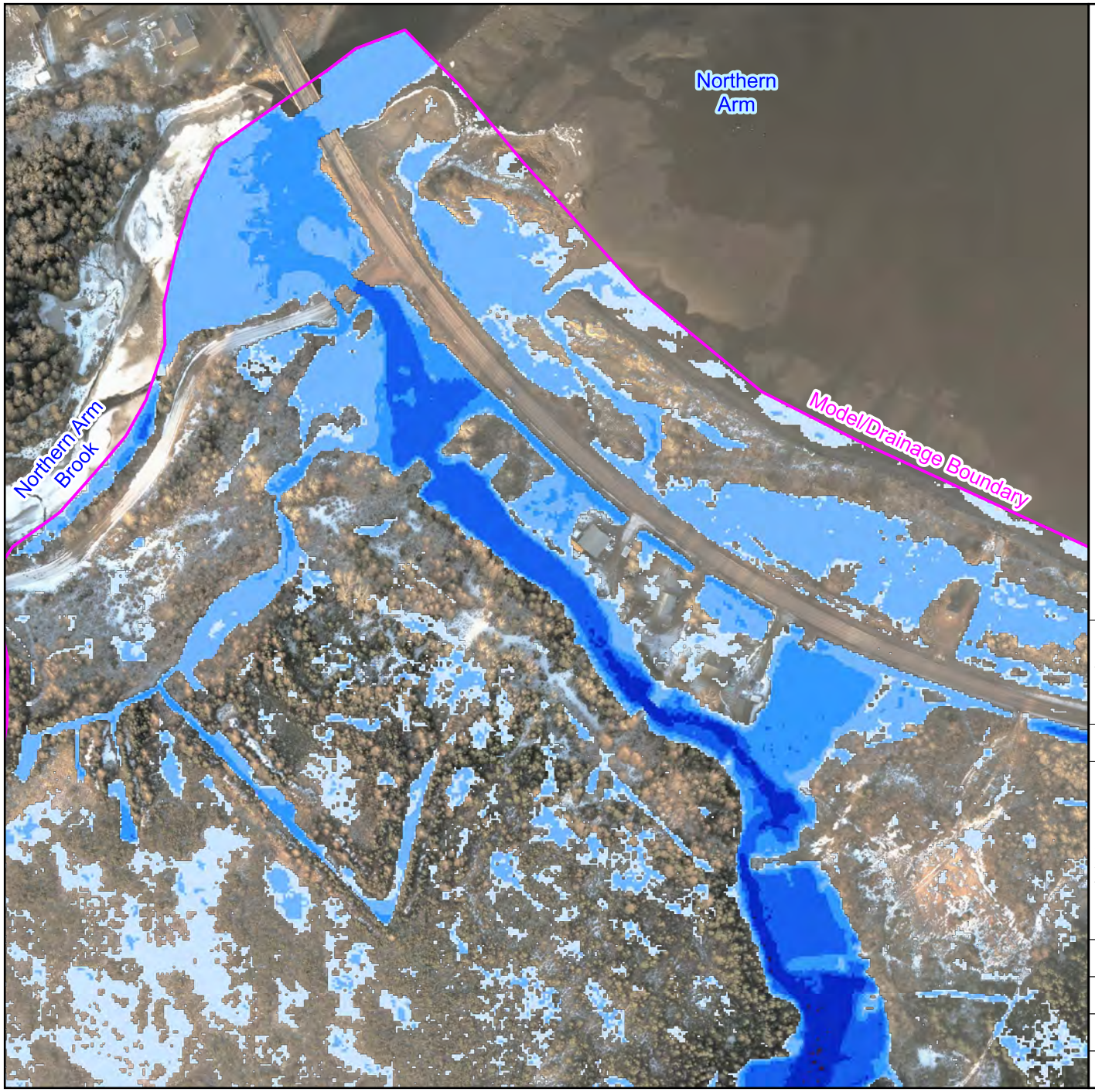
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




## Legend - Flood

Flood Extent (m)

- < 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

## Legend

- Model/Drainage Boundary

0 20 40 60 80 100 m

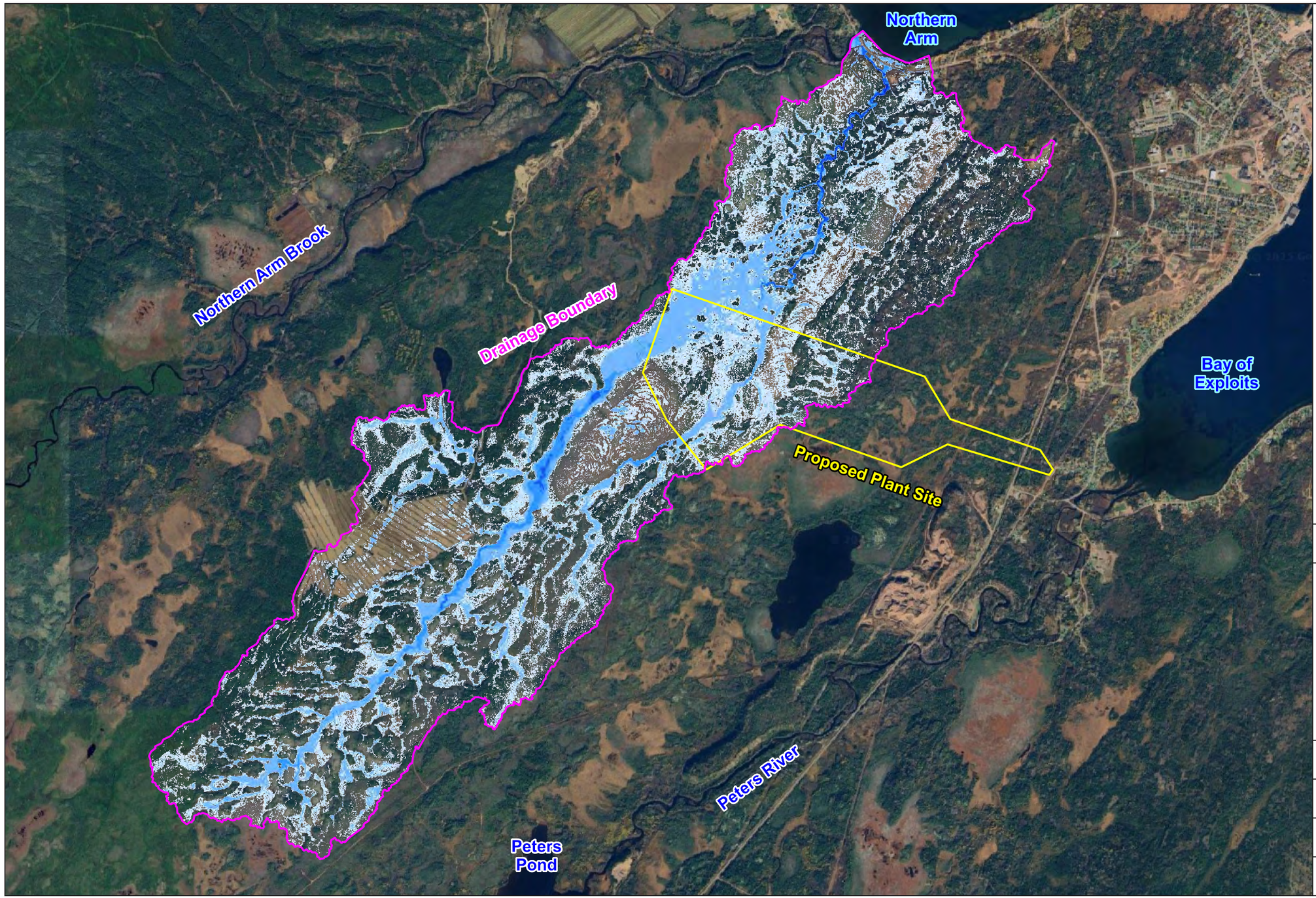
1:2,500

| | |
|---|---|
| Note | Base ortho images from EVREC (2025). |

Figure 16b

Inundation map of the area near the stream discharge point to Northern Arm under the 1:20 year return period rainfall event without plant outflow.

| | |
|---|---|
| Project No. | 3191-8 |
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Date | March 2026 |




N

Legend
Flood Extent

- < 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- > 2.0 m

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 17a

Inundation map of the area near the proposed plant site under the 1:20 year return period rainfall event with the plant outflow of 5 $m^3$/min.

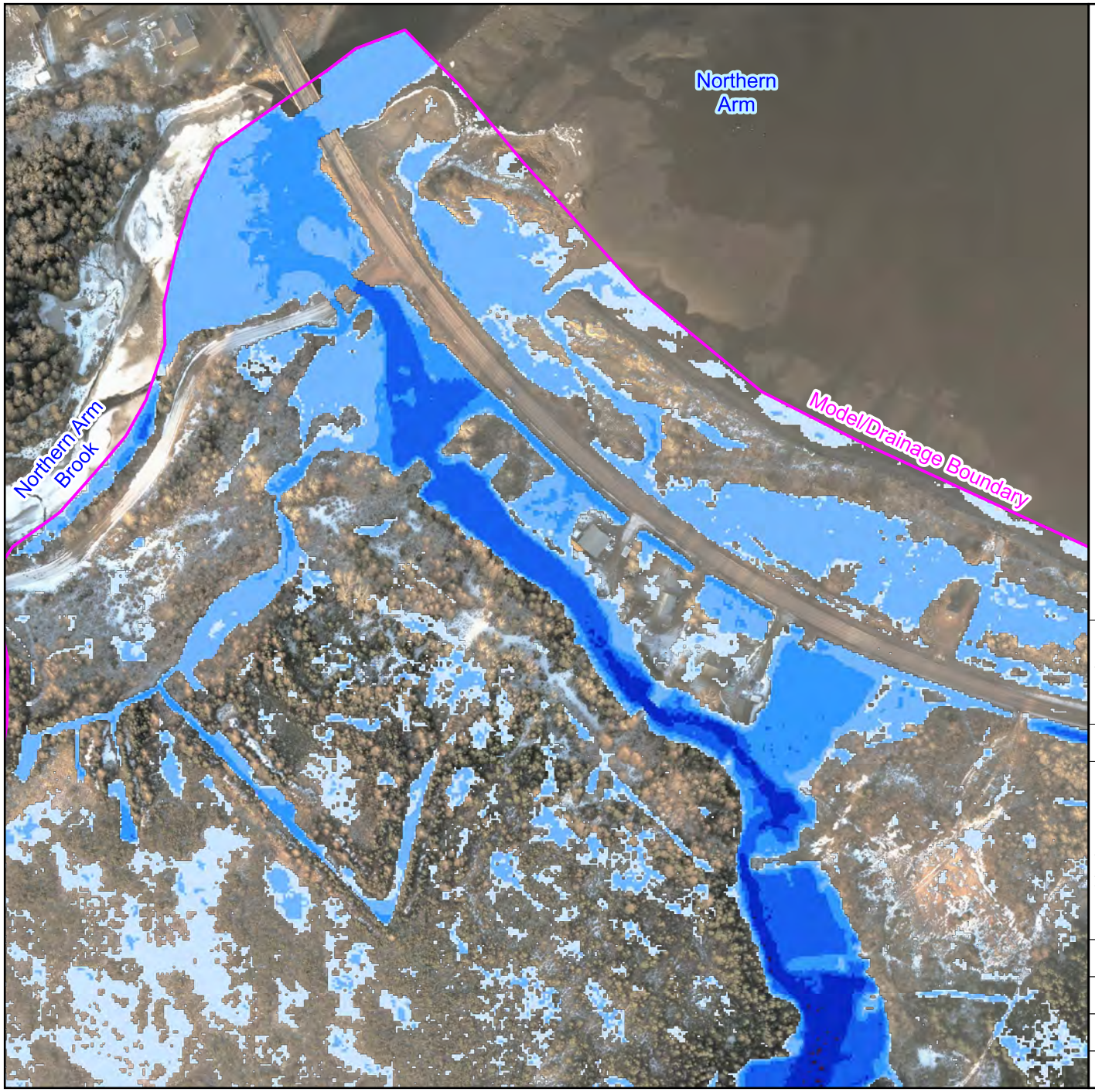
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




## Legend - Flood

Flood Extent (m)

- < 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

## Legend

- Model/Drainage Boundary

0 20 40 60 80 100 m

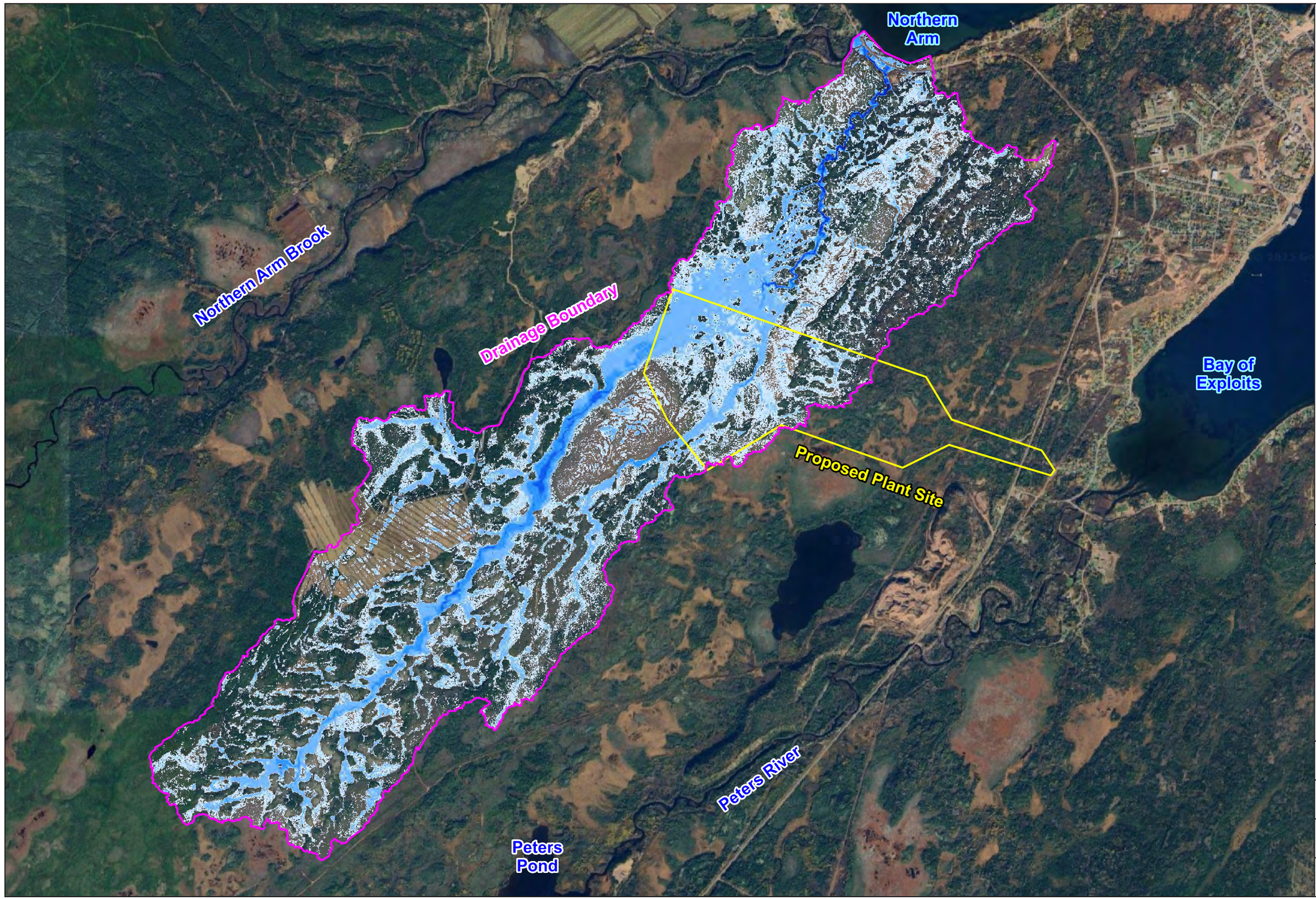
1:2,500

| | |
|---|---|
| Note | Base ortho images from EVREC (2025). |

Figure 17b

Inundation map of the area near the stream discharge point to Northern Arm under the 1:20 year return period rainfall event with the plant outflow of 5 $m^3$/min.

| | |
|---|---|
| Project No. | 3191-8 |
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Date | March 2026 |




N

Legend
Flood Extent

- < 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- > 2.0 m

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 18a

Inundation map of the area near the proposed plant site under the 1:100 year return period rainfall event without plant outflow.

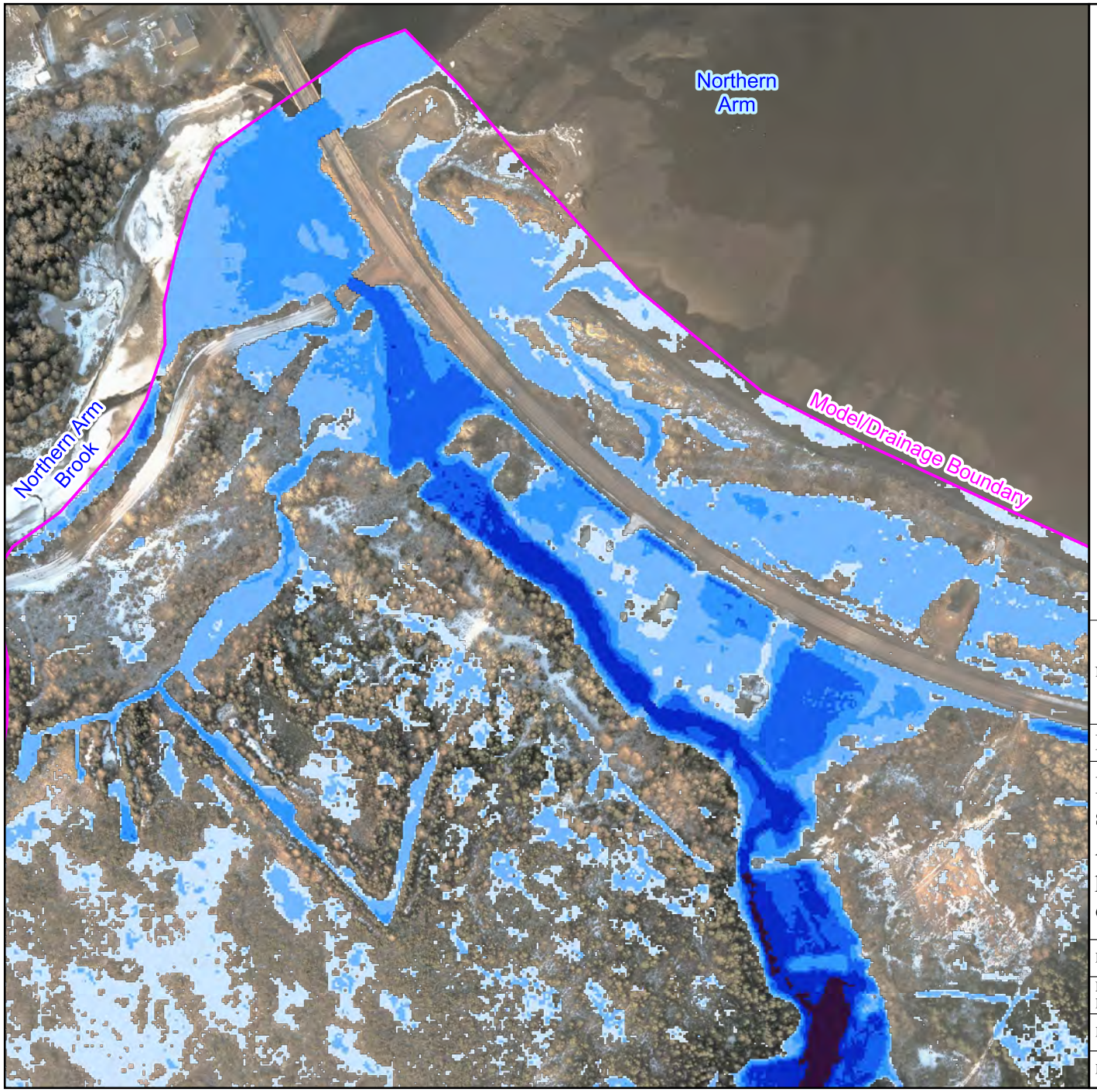
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




Legend - Flood

Flood Extent (m)

- < 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

Legend

- Model/Drainage Boundary

0 20 40 60 80 100 m

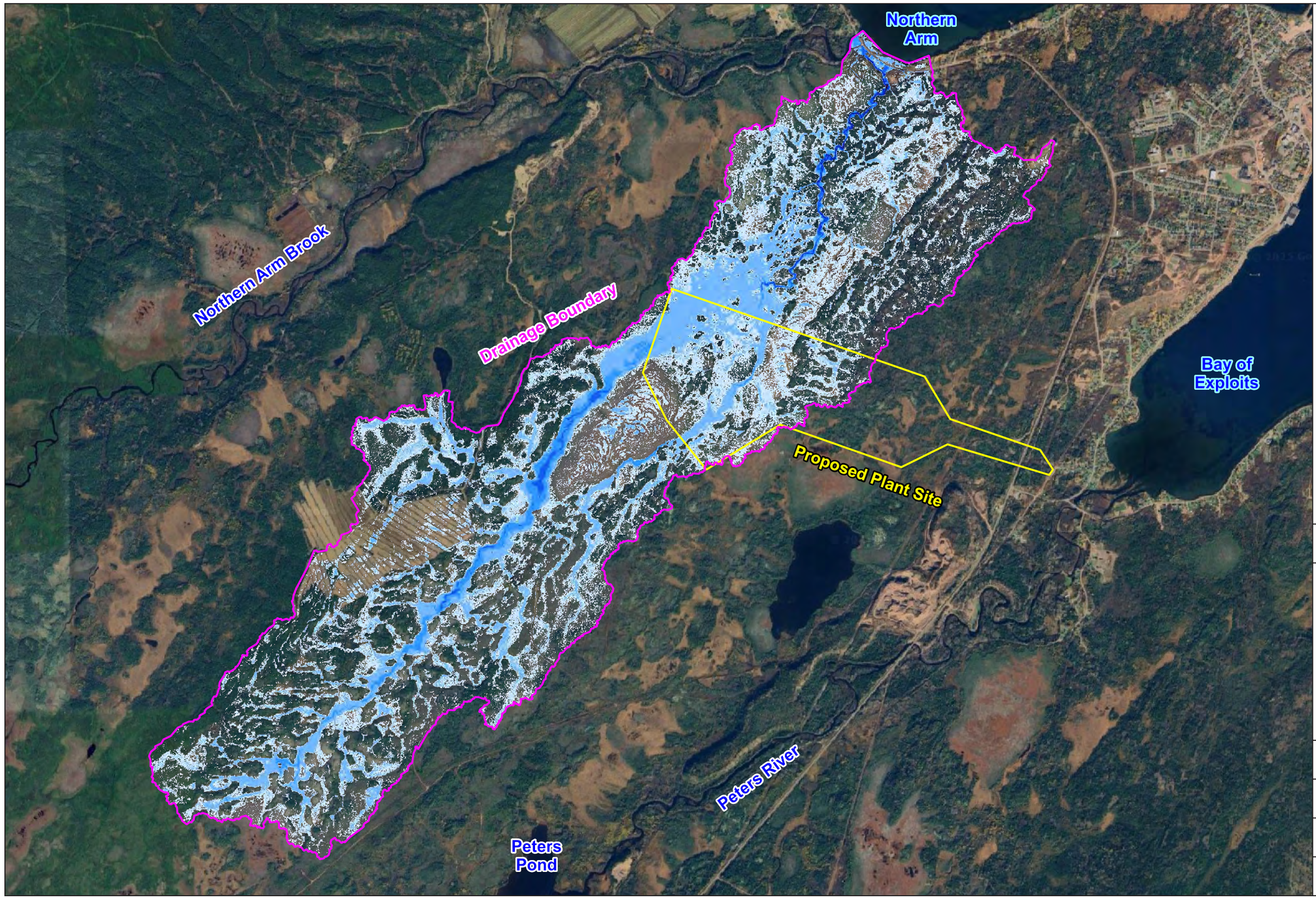
1:2,500

| | |
|---|---|
| Note | Base ortho images from EVREC (2025). |

Figure 18b

Inundation map of the area near the stream discharge point to Northern Arm under the 1:100 year return period rainfall event without plant outflow.

| | |
|---|---|
| Project No. | 3191-8 |
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Date | March 2026 |




N

Legend
Flood Extent

- < 0.1 m
- 0.1 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- > 2.0 m

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 19a

Inundation map of the area near the proposed plant site under the 1:100 year return period rainfall event with the plant outflow of 5 $m^3$/min.

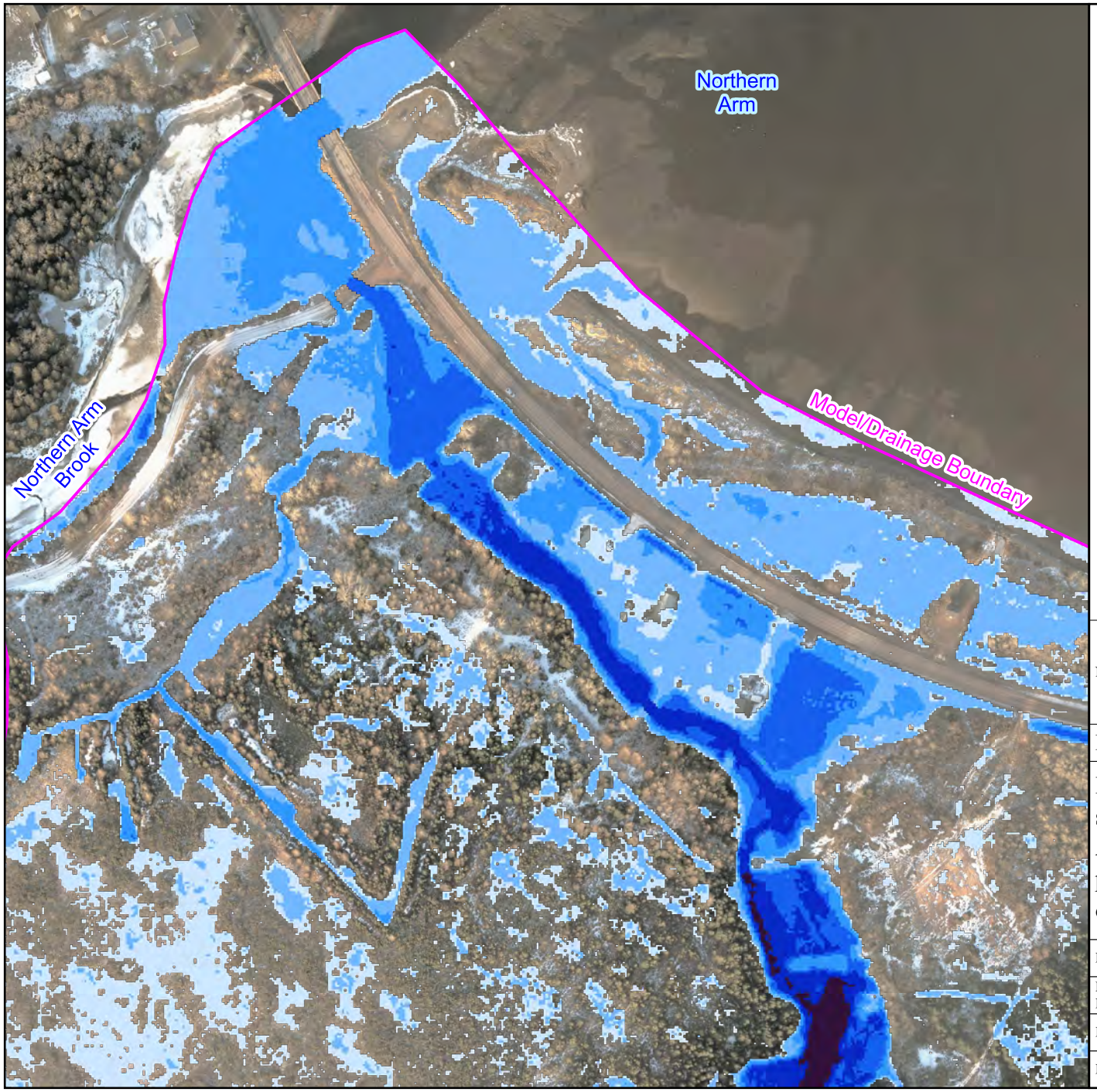
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




Legend - Flood

Flood Extent (m)

- < 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

Legend

- Model/Drainage Boundary

0 20 40 60 80 100 m

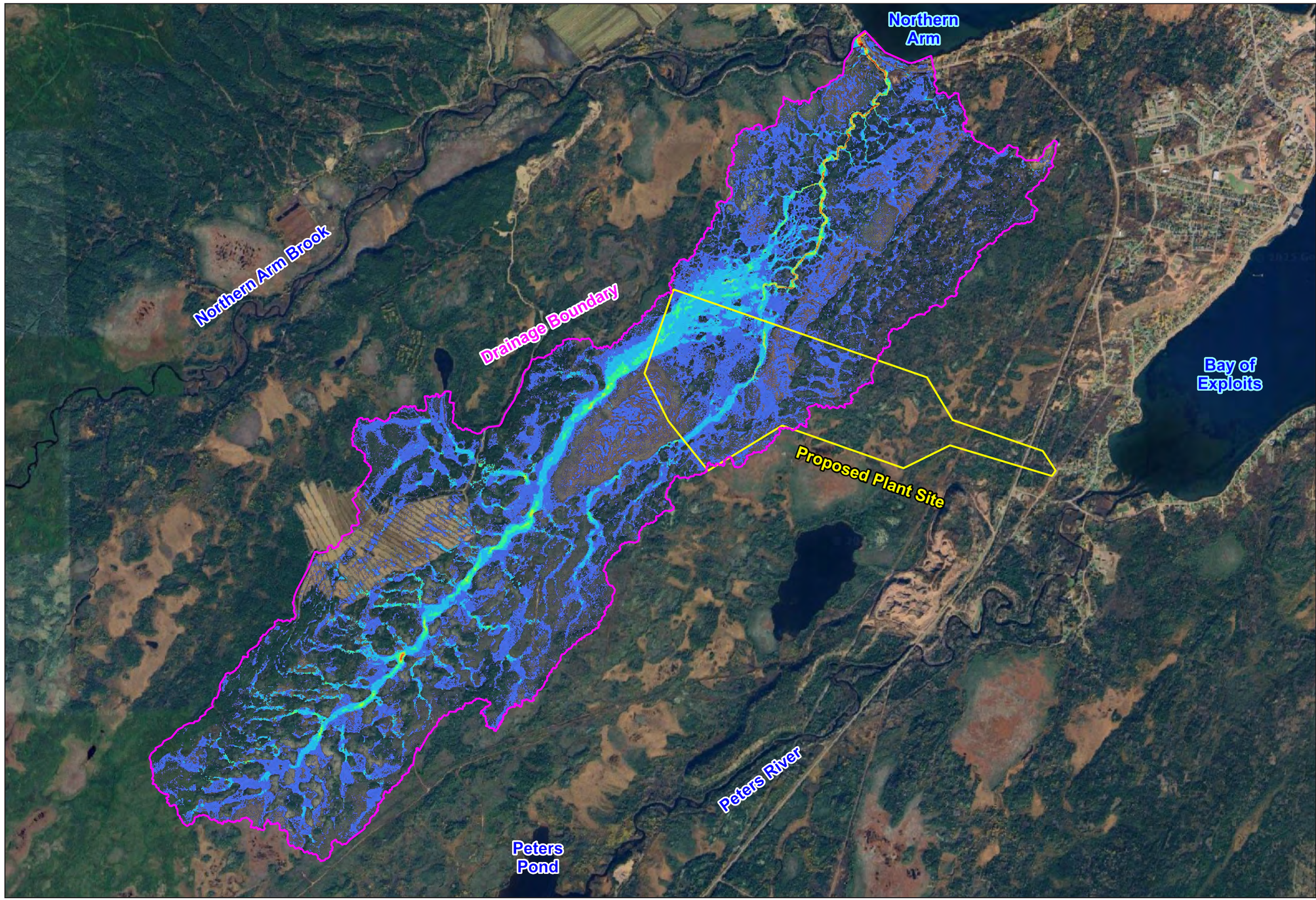
1:2,500

| | |
|---|---|
| Note | Base ortho images from EVREC (2025). |

Figure 19b

Inundation map of the area near the stream discharge point to Northern Arm under the 1:100 year return period rainfall event with the plant outflow of 5 $m^3$/min.

| | |
|---|---|
| Project No. | 3191-8 |
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Date | March 2026 |




N

Legend
Velocity (m/s)

- < 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 20

Velocity map of the area near the proposed plant site under the 1:20 year return period rainfall event without plant outflow.

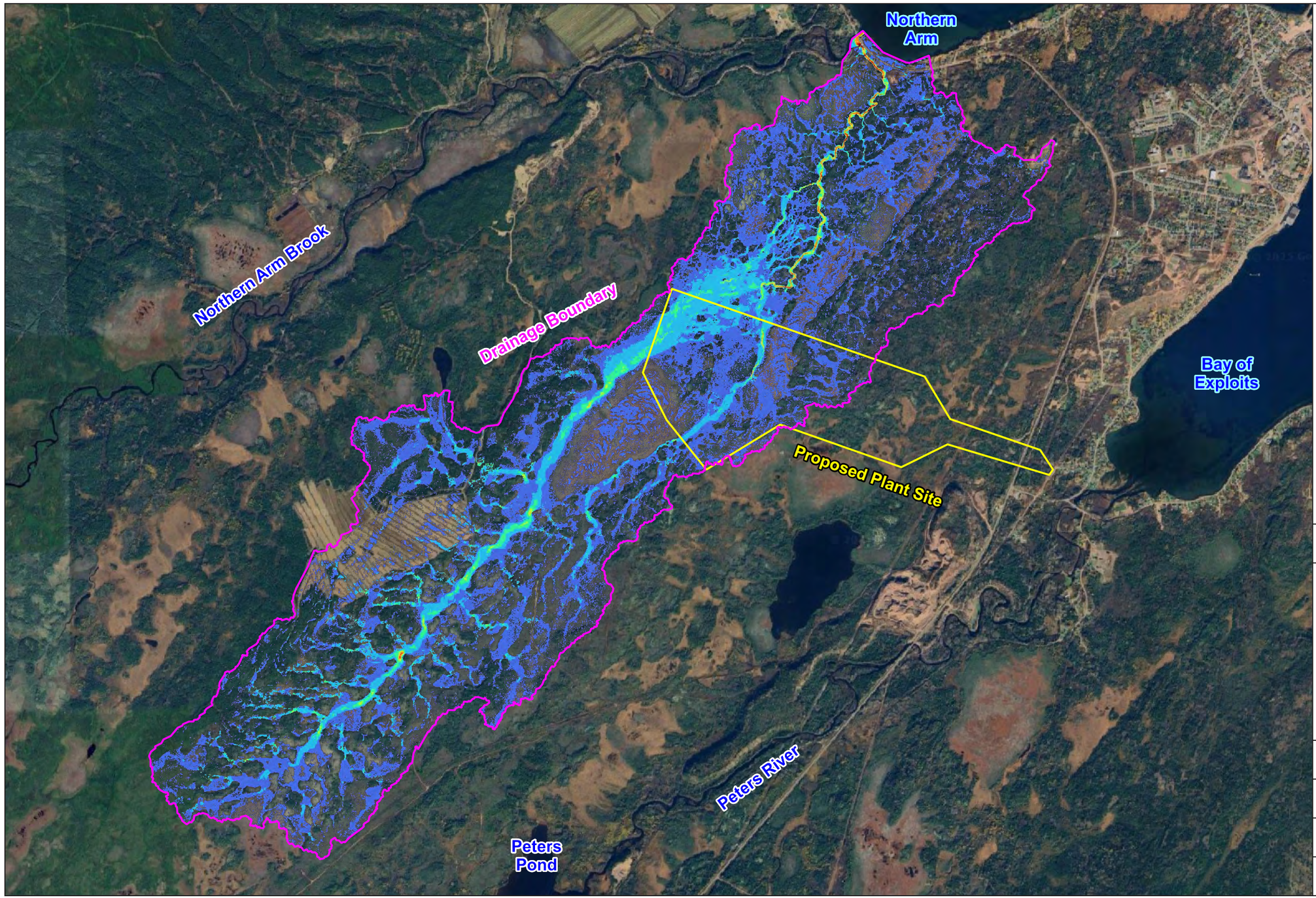
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




N

Legend
Velocity (m/s)

- < 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000

Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 21

Velocity map of the area near the proposed plant site under the 1:20 year return period rainfall event with the plant outflow of 5 $m^3$/min.

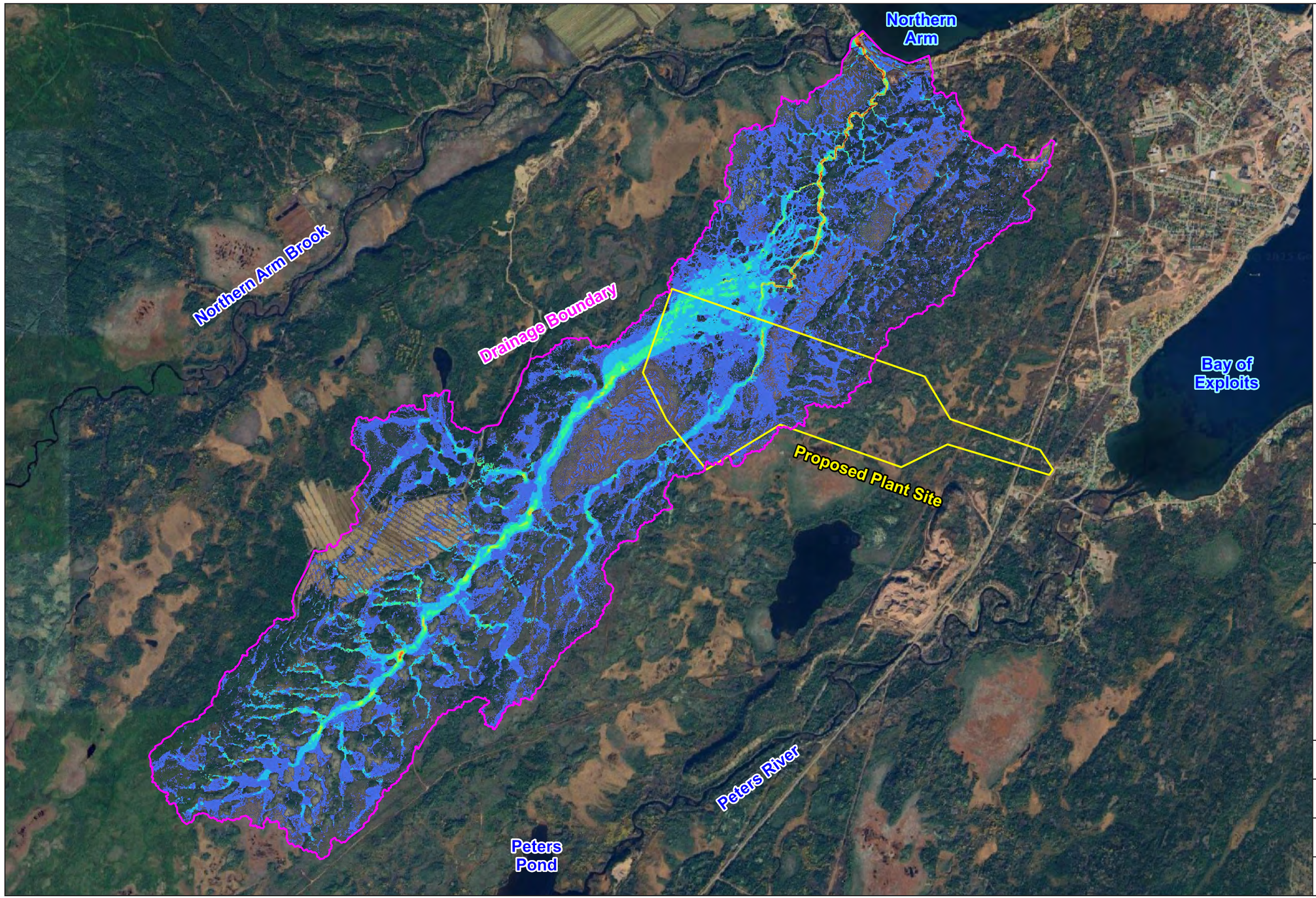
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




N

Legend
Velocity (m/s)

- < 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000
Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 22

Velocity map of the area near the proposed plant site under the 1:100 year return period rainfall event without plant outflow.

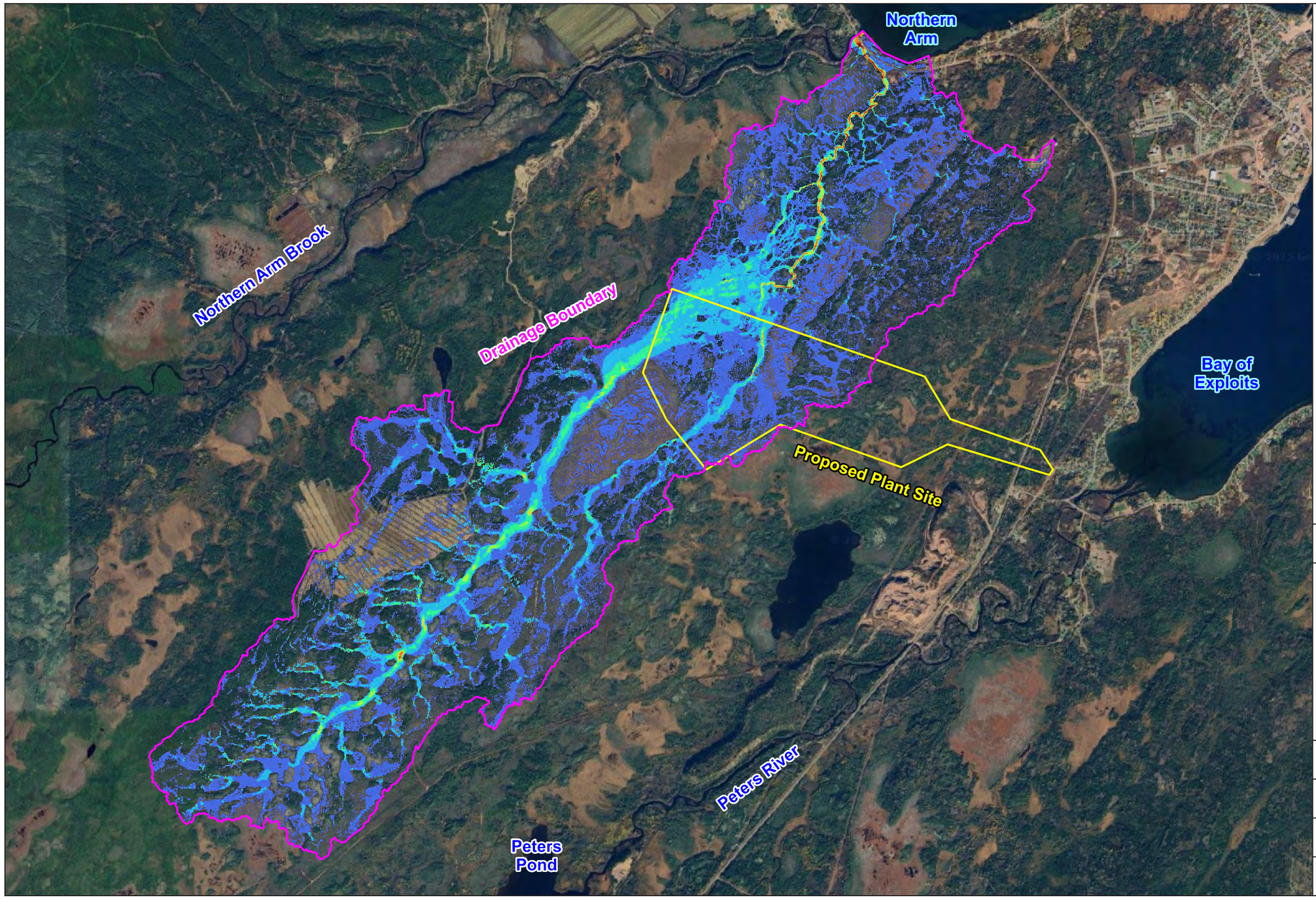
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC




N

Legend
Velocity (m/s)

- < 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

Legend

- Model boundary
- Outline of proposed plant site

0 500 1000

Scale, m

Note: Base ortho image by Google Earth, 2025.

Figure 23

Velocity map of the area near the proposed plant site under the 1:100 year return period rainfall event with the plant outflow of 5 $m^3$/min.

Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
September 2025

FFC

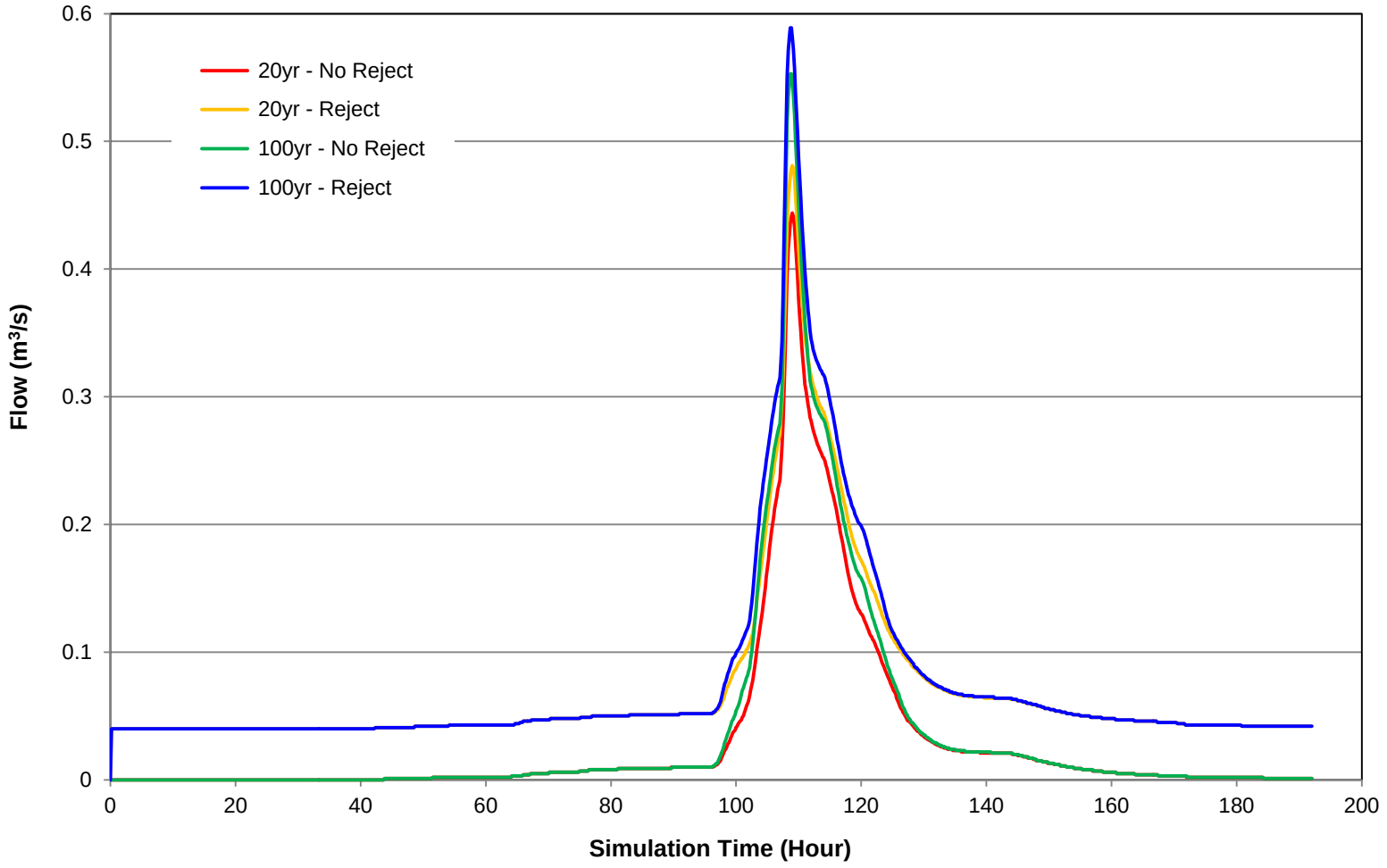
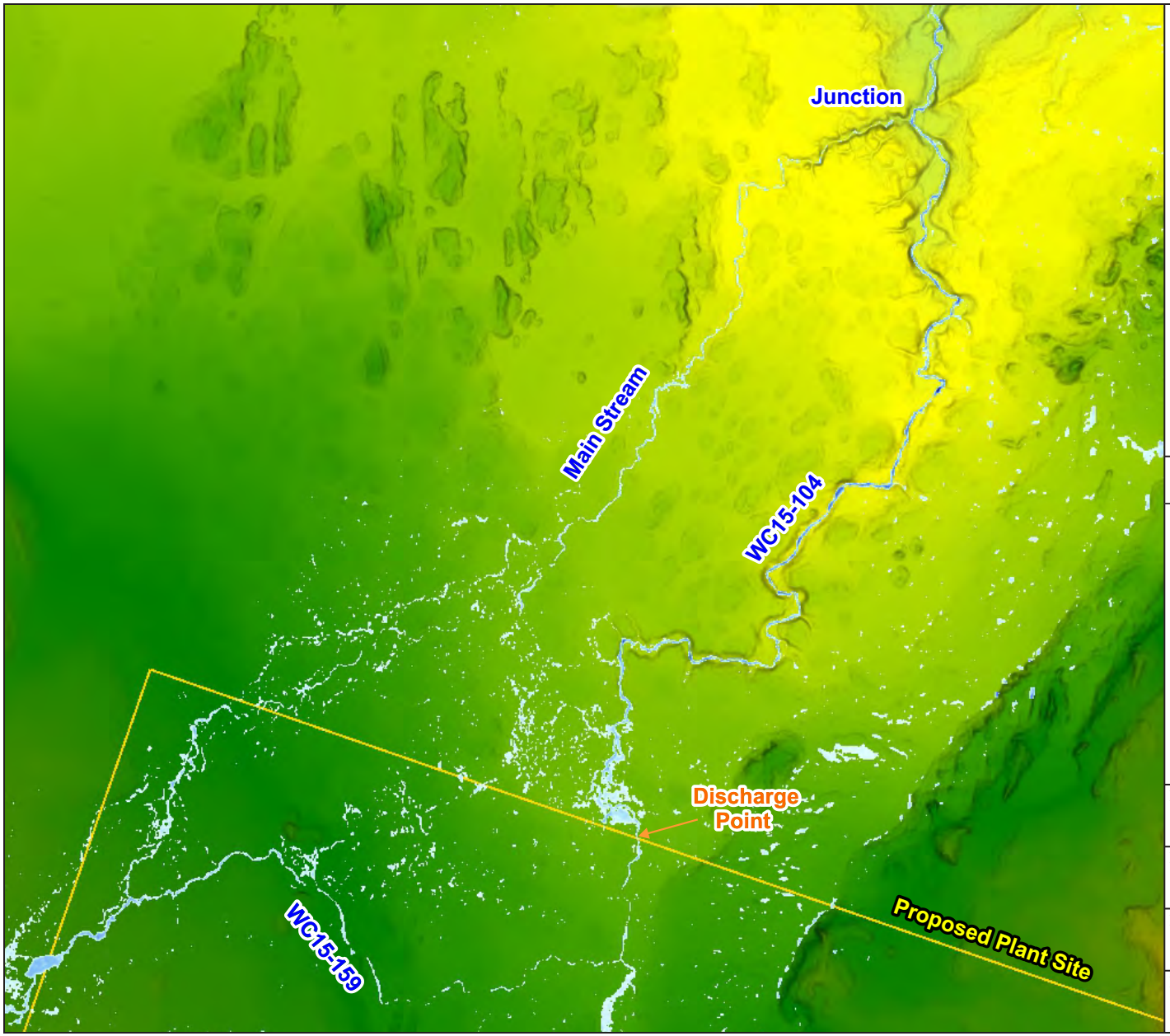



Figure 24 The simulated/calculated flows near the discharge point along the downstream side.

| | |
|---|---|
| Project No. 3191-8 | Document Reference FFC-NL-3191-8-002 |
| Location Botwood, NL | Date October 2025 |

FFC




N

Water Depth (m)

0 0.1 0.2 0.3 0.4 0.5

Elevation (m)

0 20 40 60 80 100

0 50 100 200 300

Scale, m

Note: Digital elevation data provided by EVREC/Landmark.

Figure 25

Pre-storm condition of the stream with the average precipitation and the estimated discharge (5 $m^3$/min) from the proposed plant site.

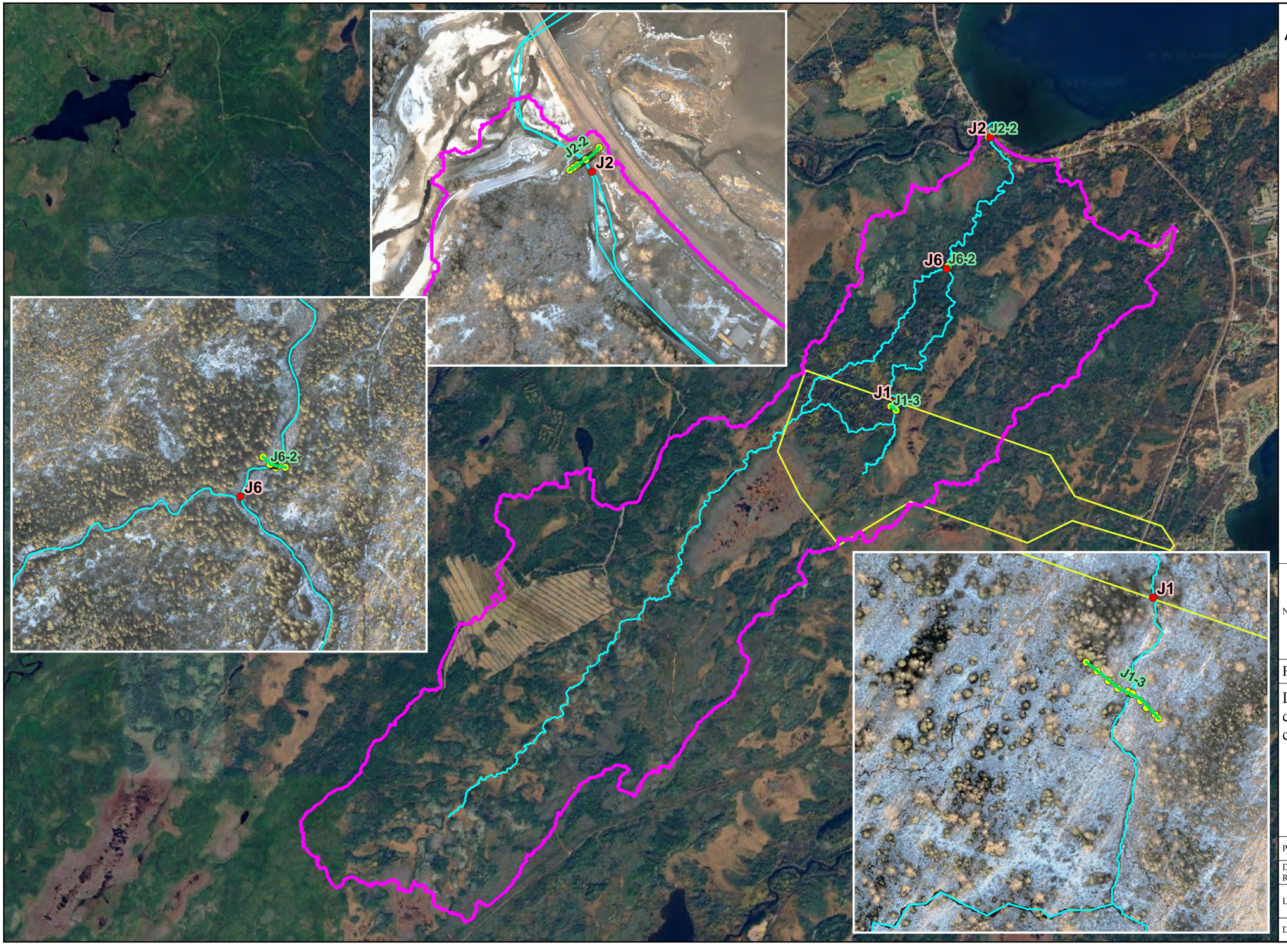
Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
March 2026

FFC




Note: Base ortho images from aerial survey by Landmark (2025) and Google Earth (2026).

Figure 26

Location map of the flow calculation points and the cross-sections.

| | |
|---|---|
| Project No. | 3191-8 |
| Document Reference | FFC-NL-3191-8-2-002 |
| Location | Botwood, NL |
| Date | February 2026 |

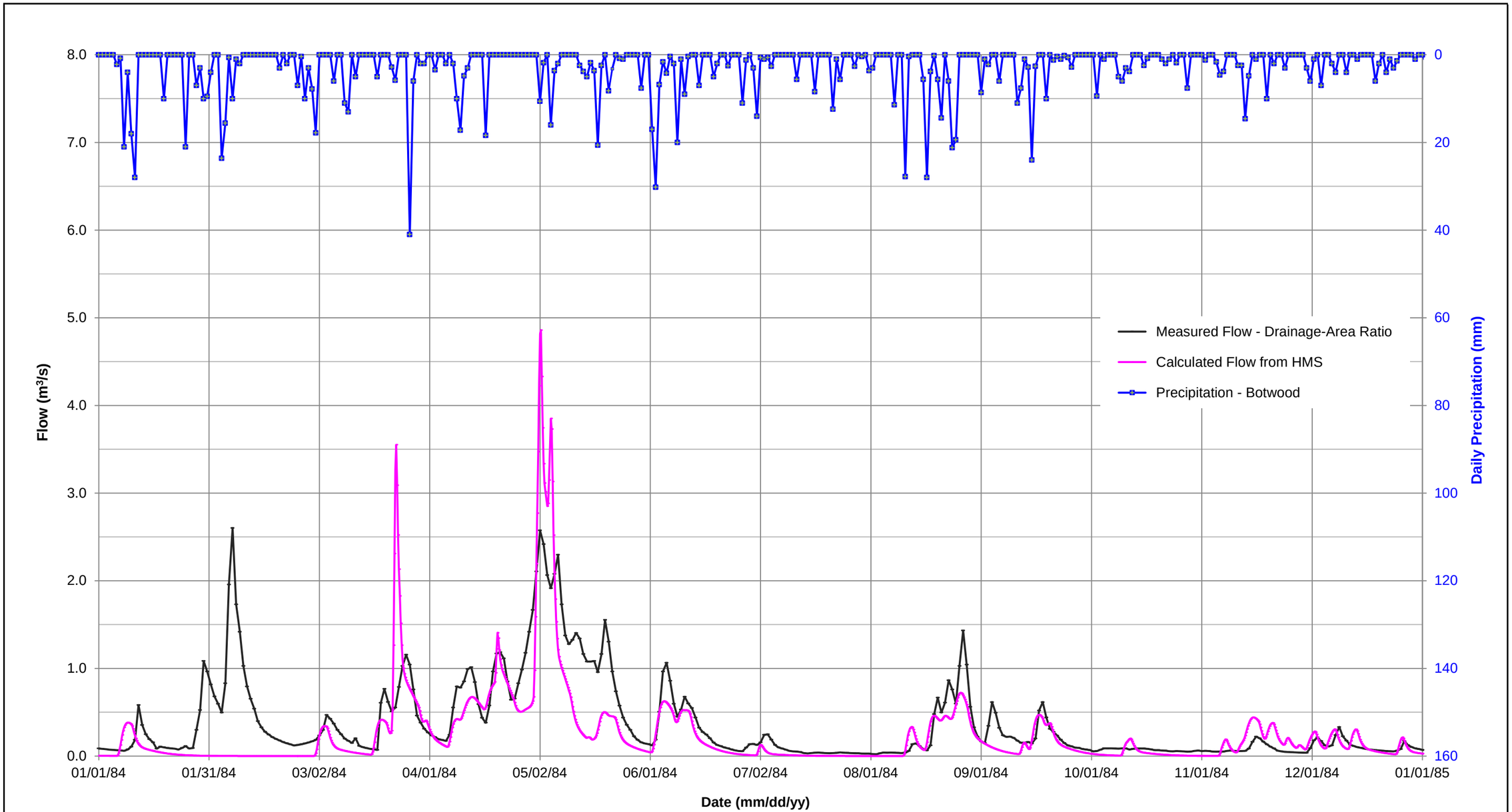



Figure 27a Simulated streamflow at the J2 location in 1984 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

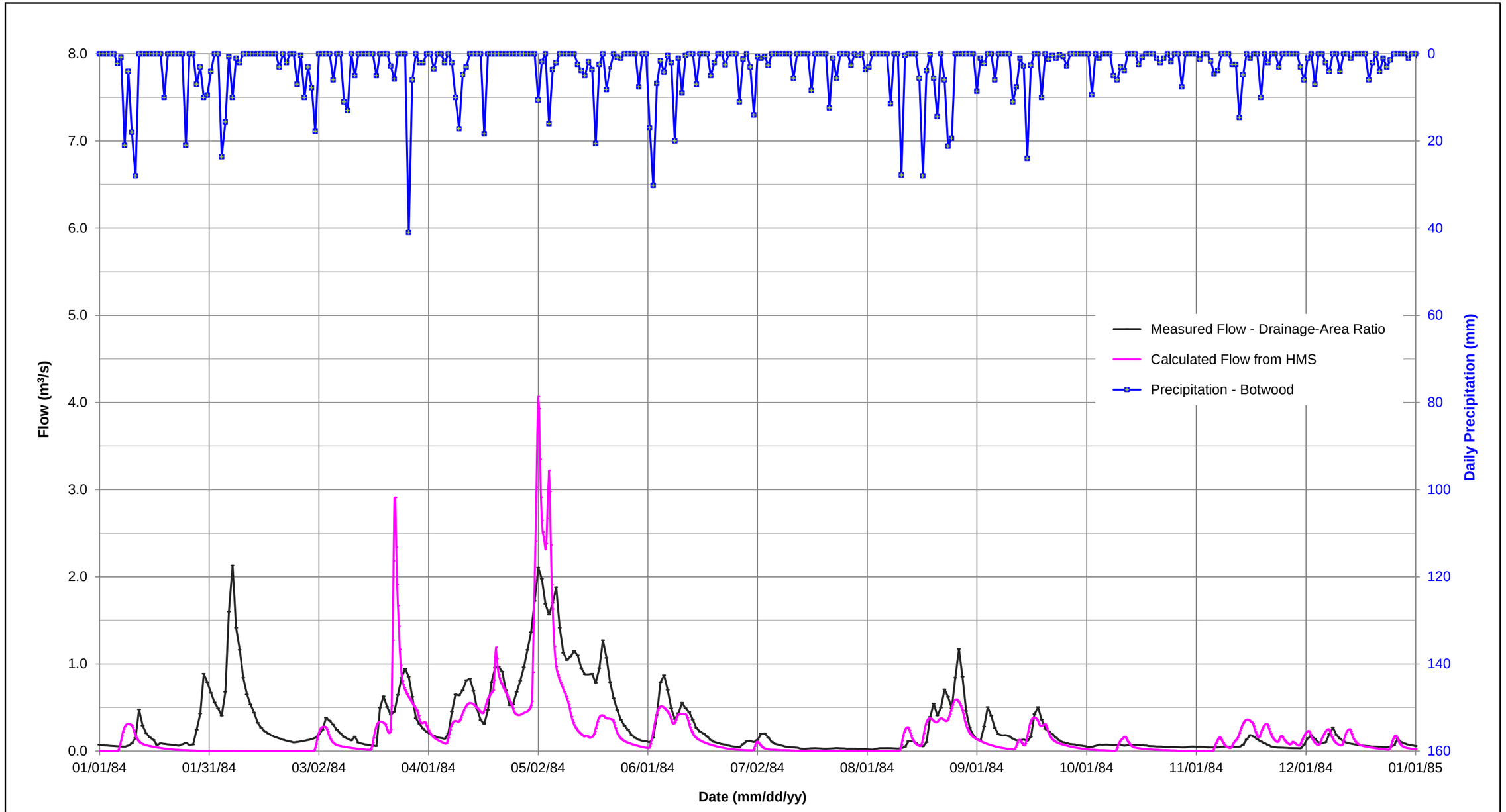



Figure 27b Simulated streamflow at the J6 location in 1984 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

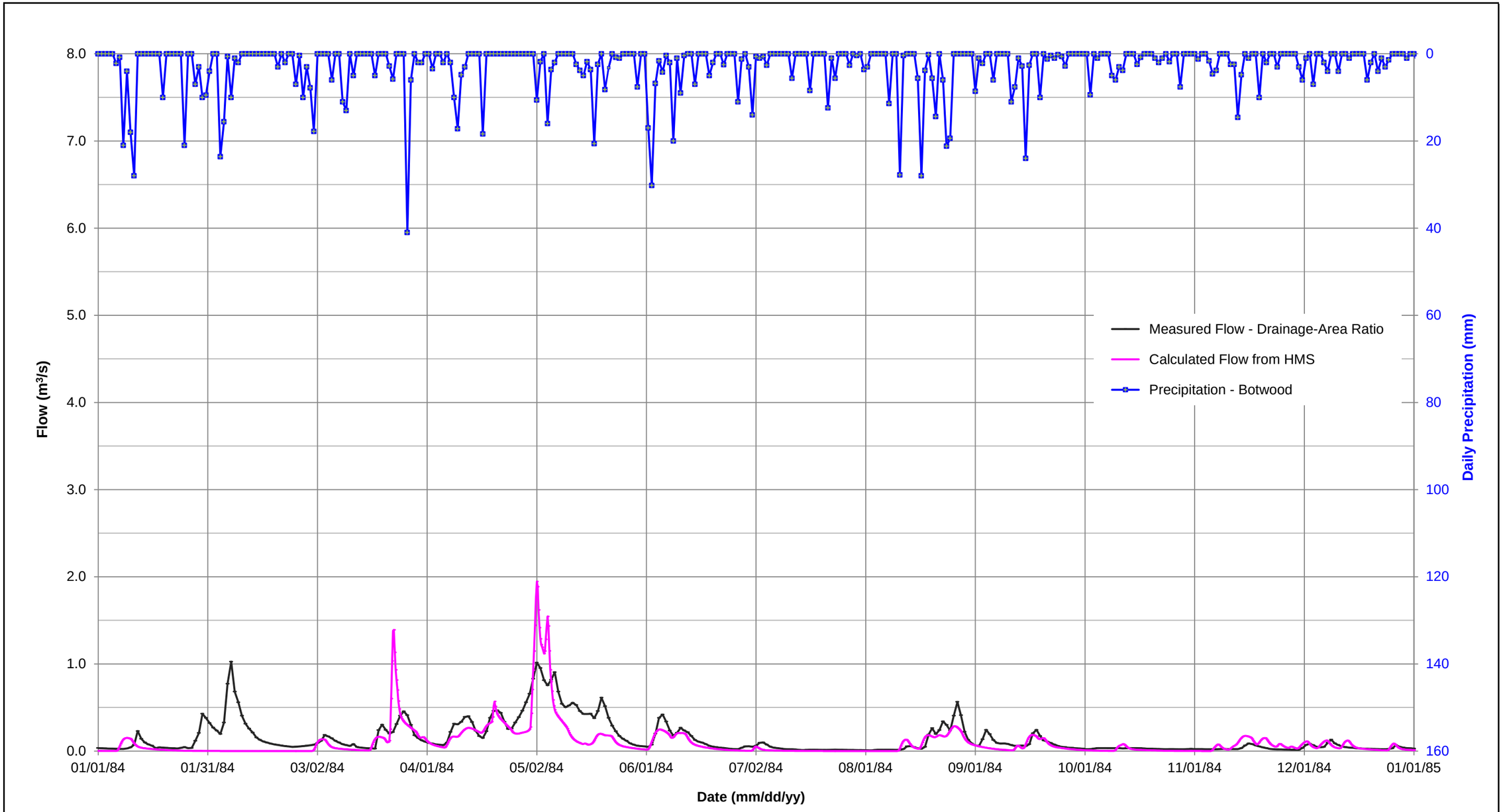



Figure 27c Simulated streamflow at the J1 location in 1984 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

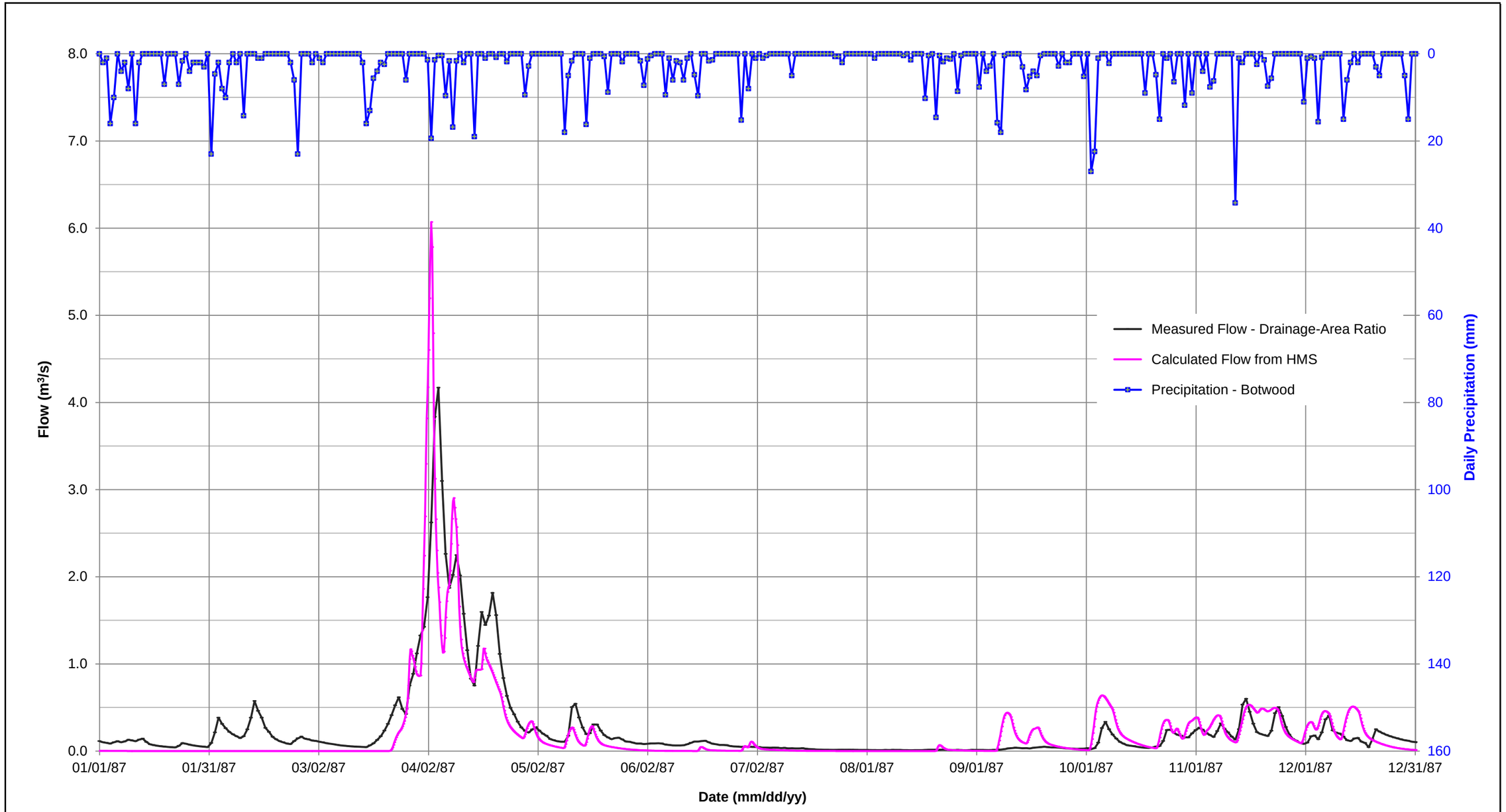



Figure 28a Simulated streamflow at the J2 location in 1987 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | March 2026 |

FFC

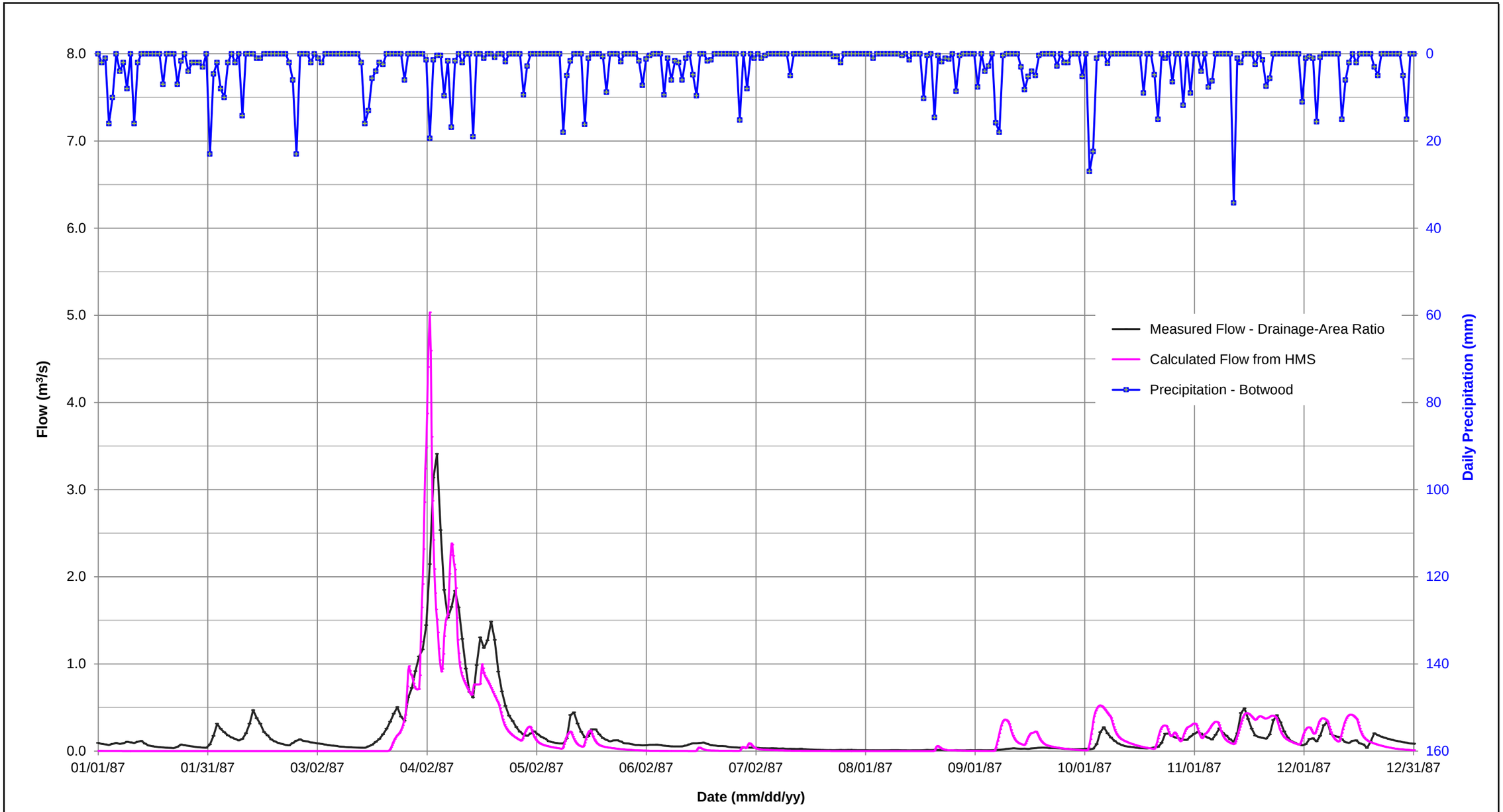



Figure 28b Simulated streamflow at the J6 location in 1987 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | March 2026 |

FFC

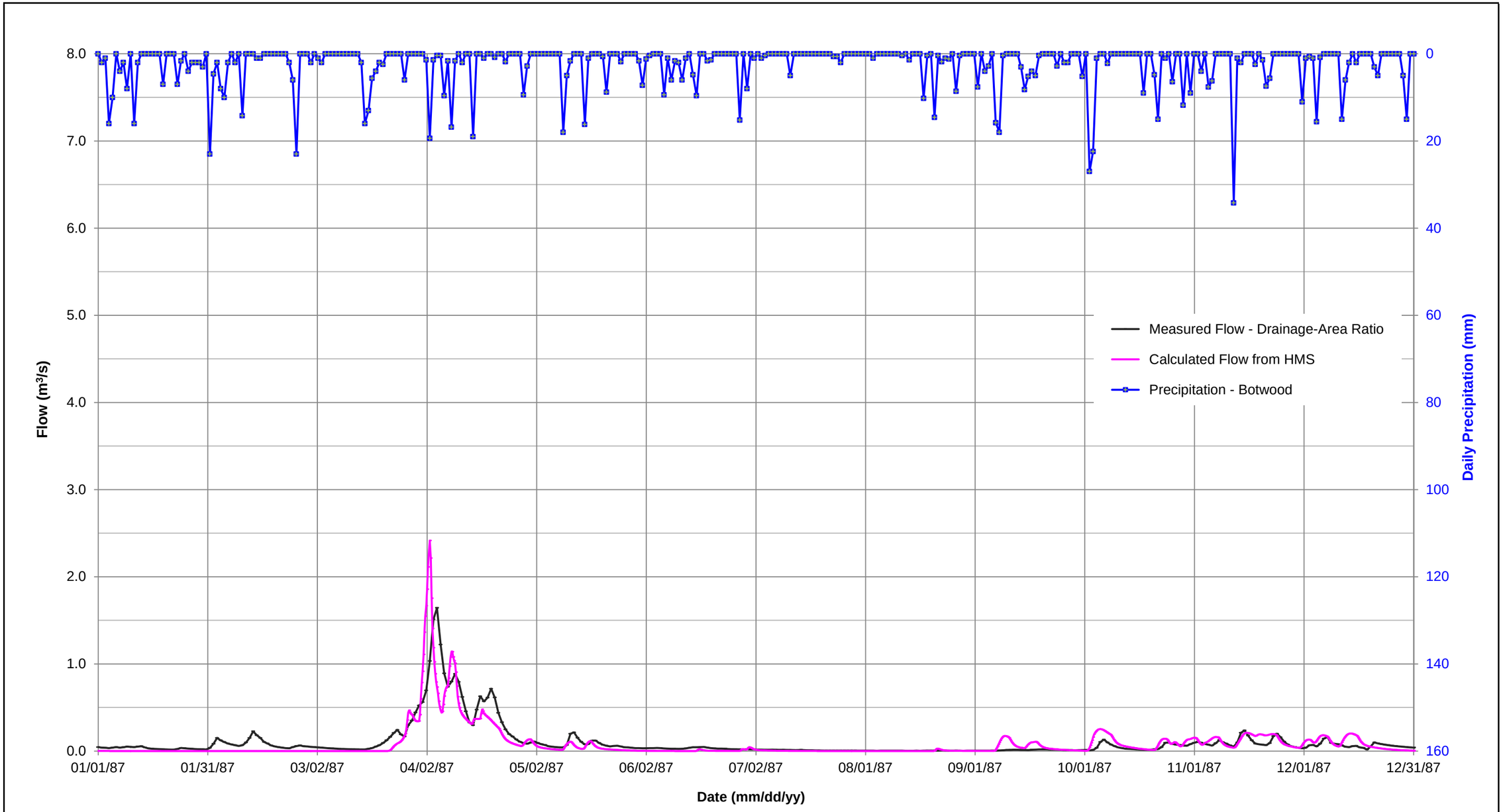



Figure 28c Simulated streamflow at the J1 location in 1987 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

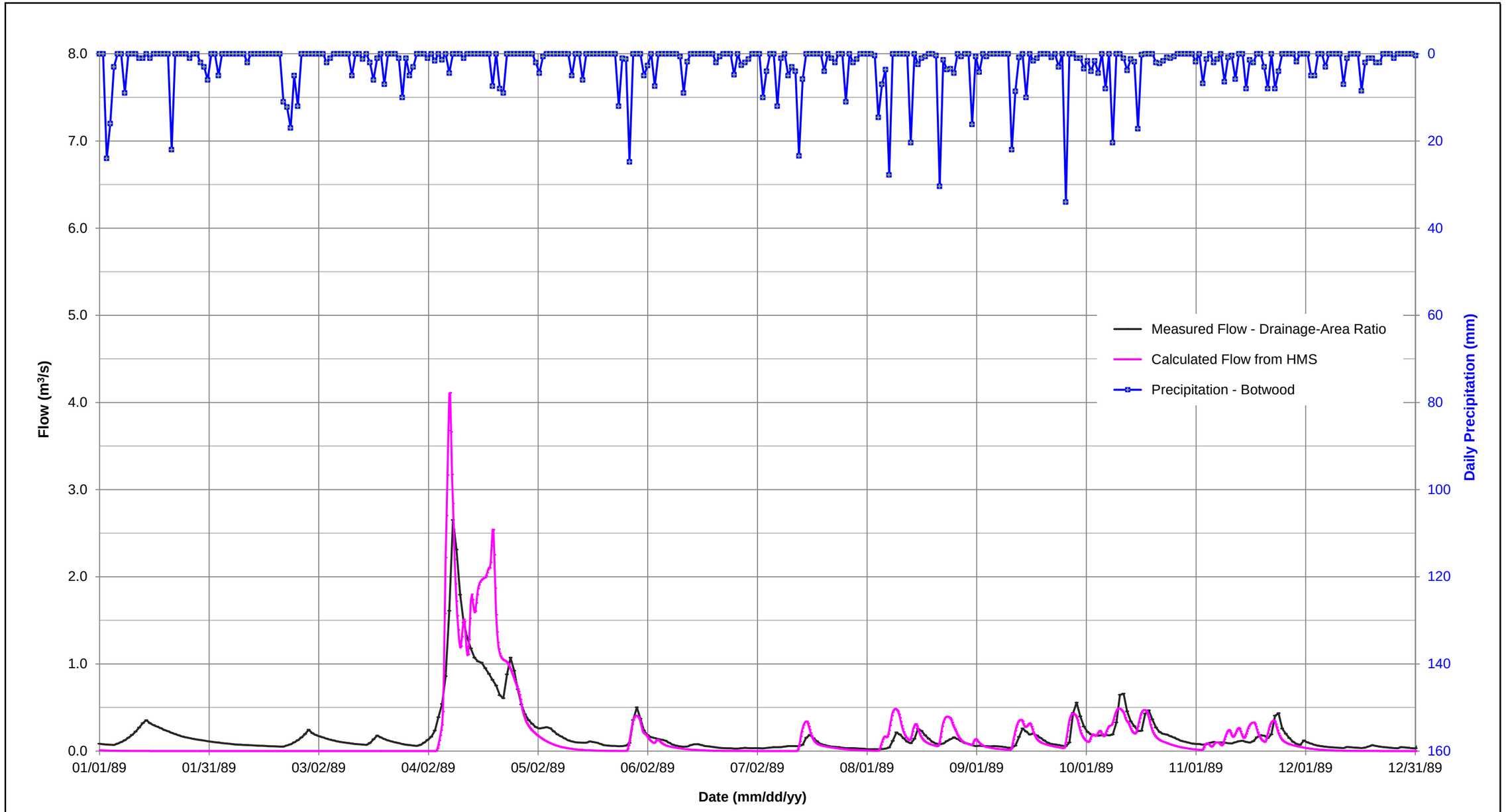



Figure 29a Simulated streamflow at the J2 location in 1989 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

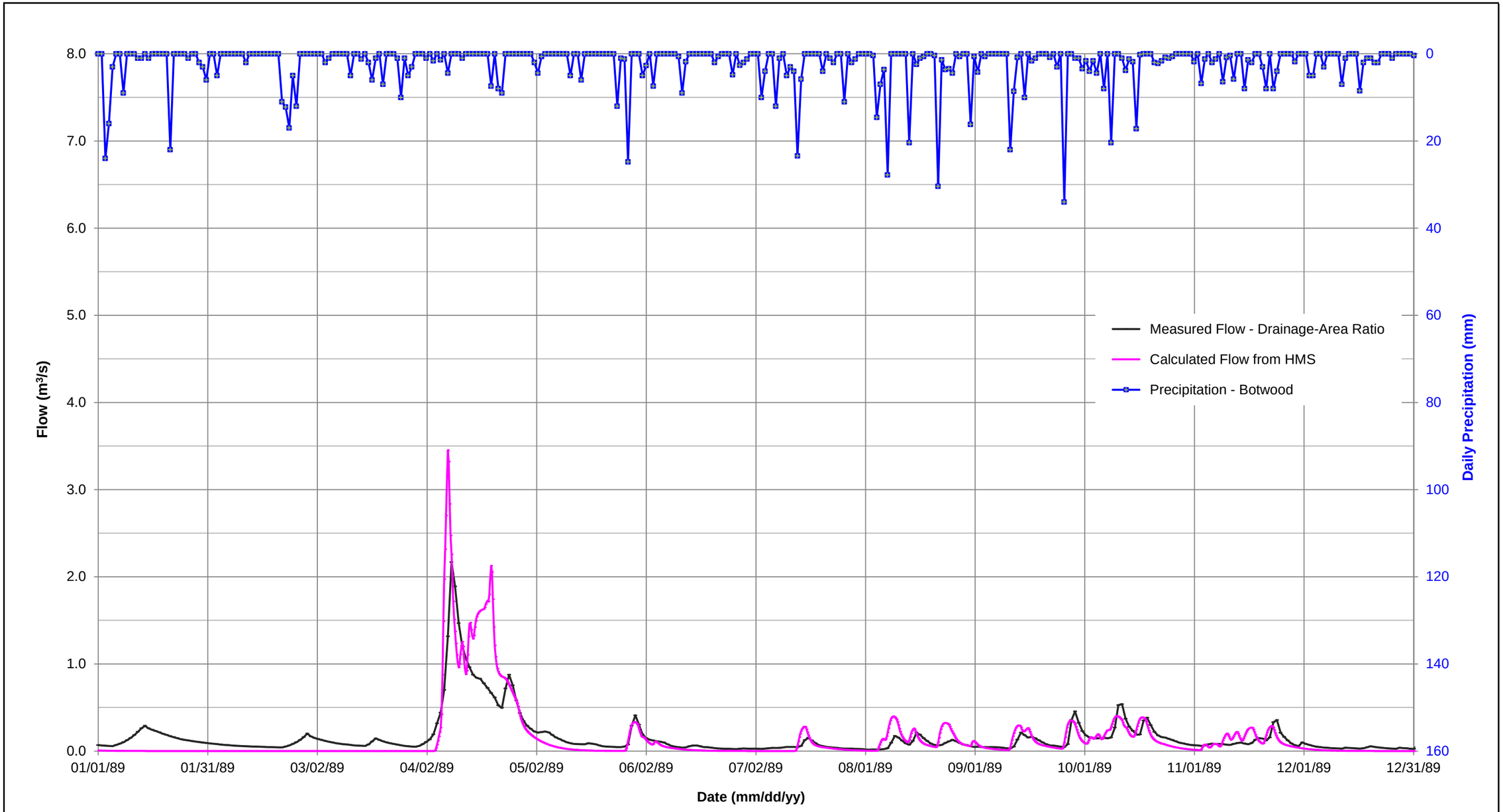



Figure 29b Simulated streamflow at the J6 location in 1989 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

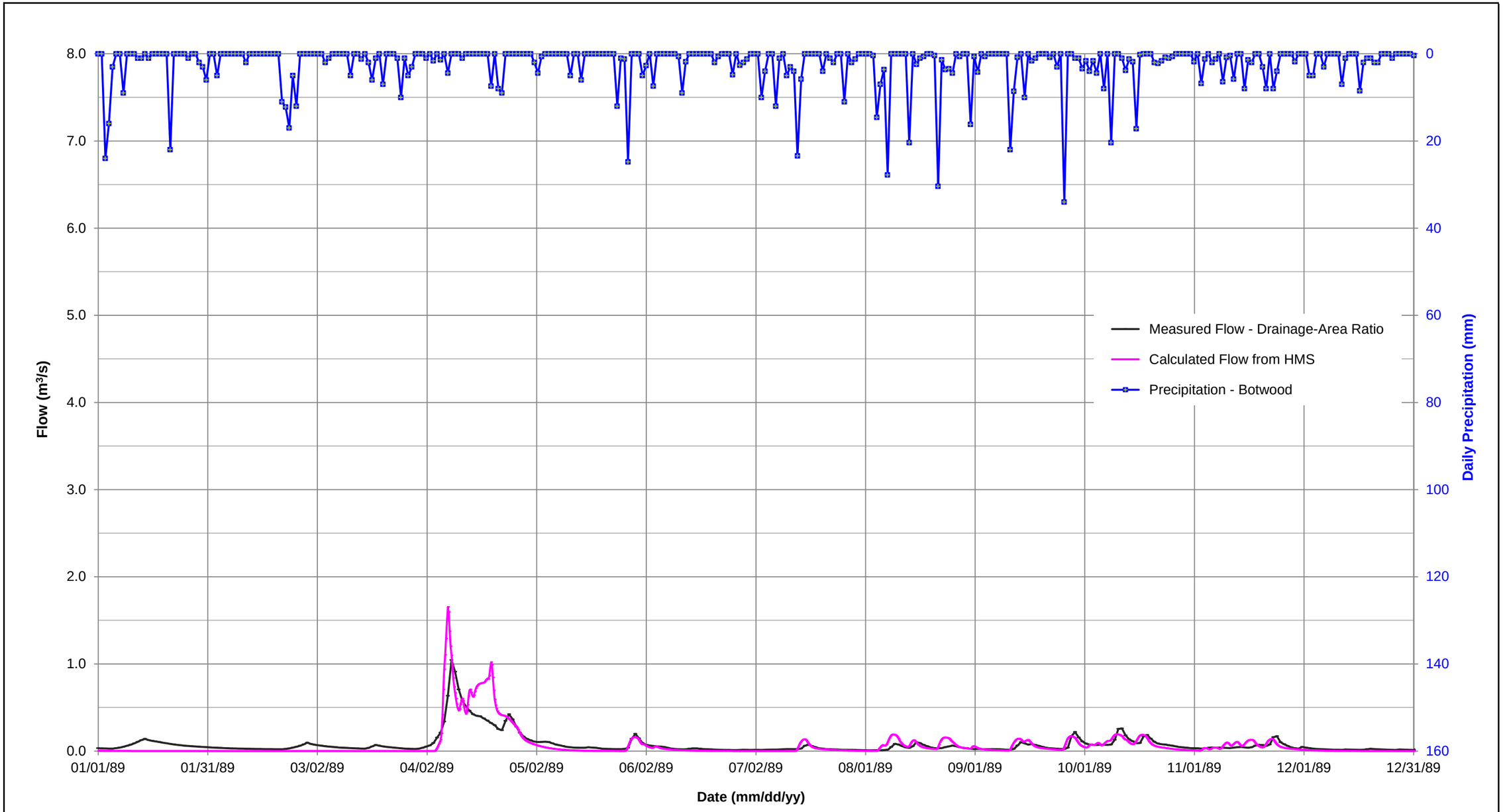



Figure 29c Simulated streamflow at the J1 location in 1989 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

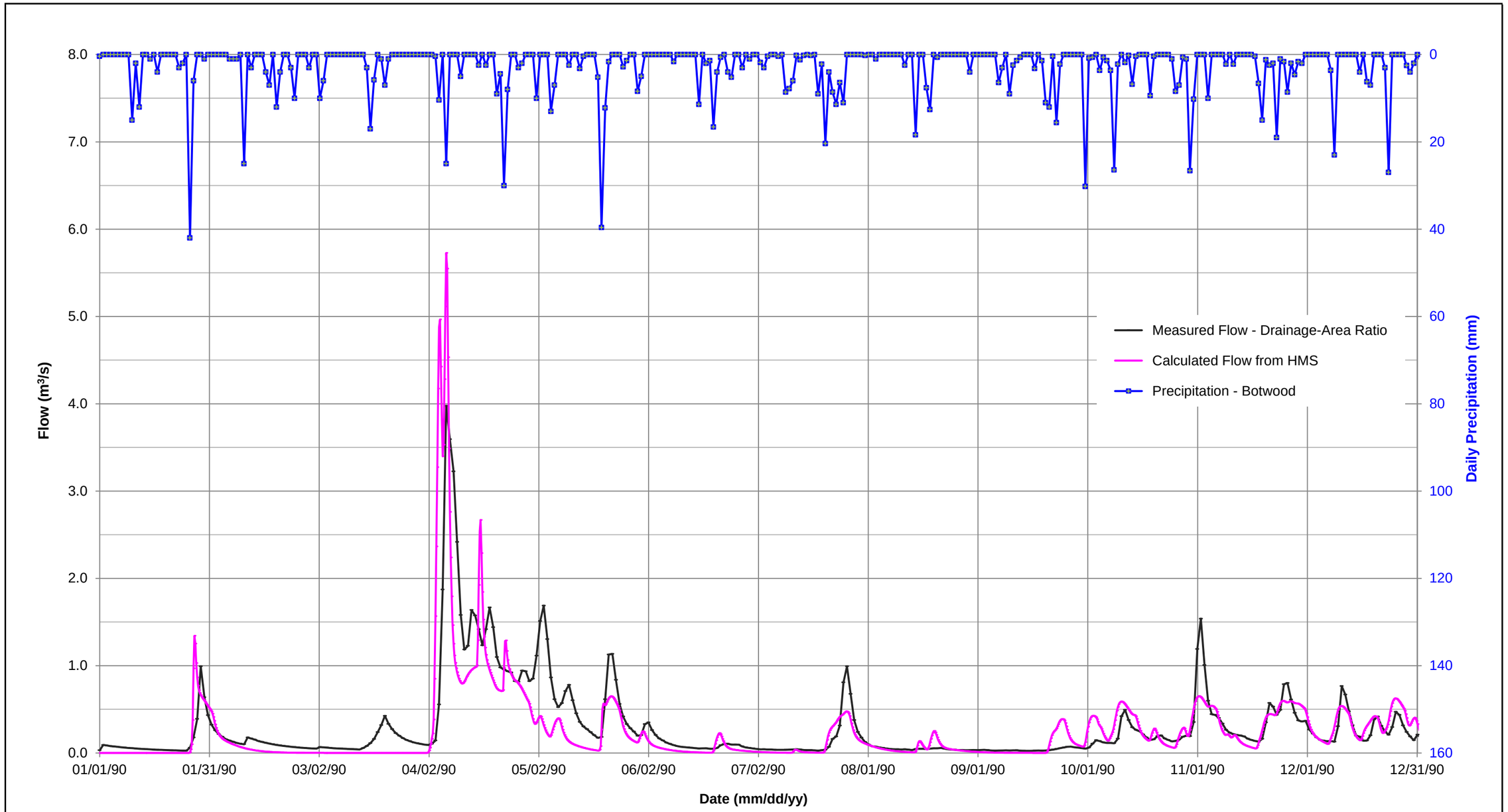



Figure 30a Simulated streamflow at the J2 location in 1990 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | March 2026 |

FFC

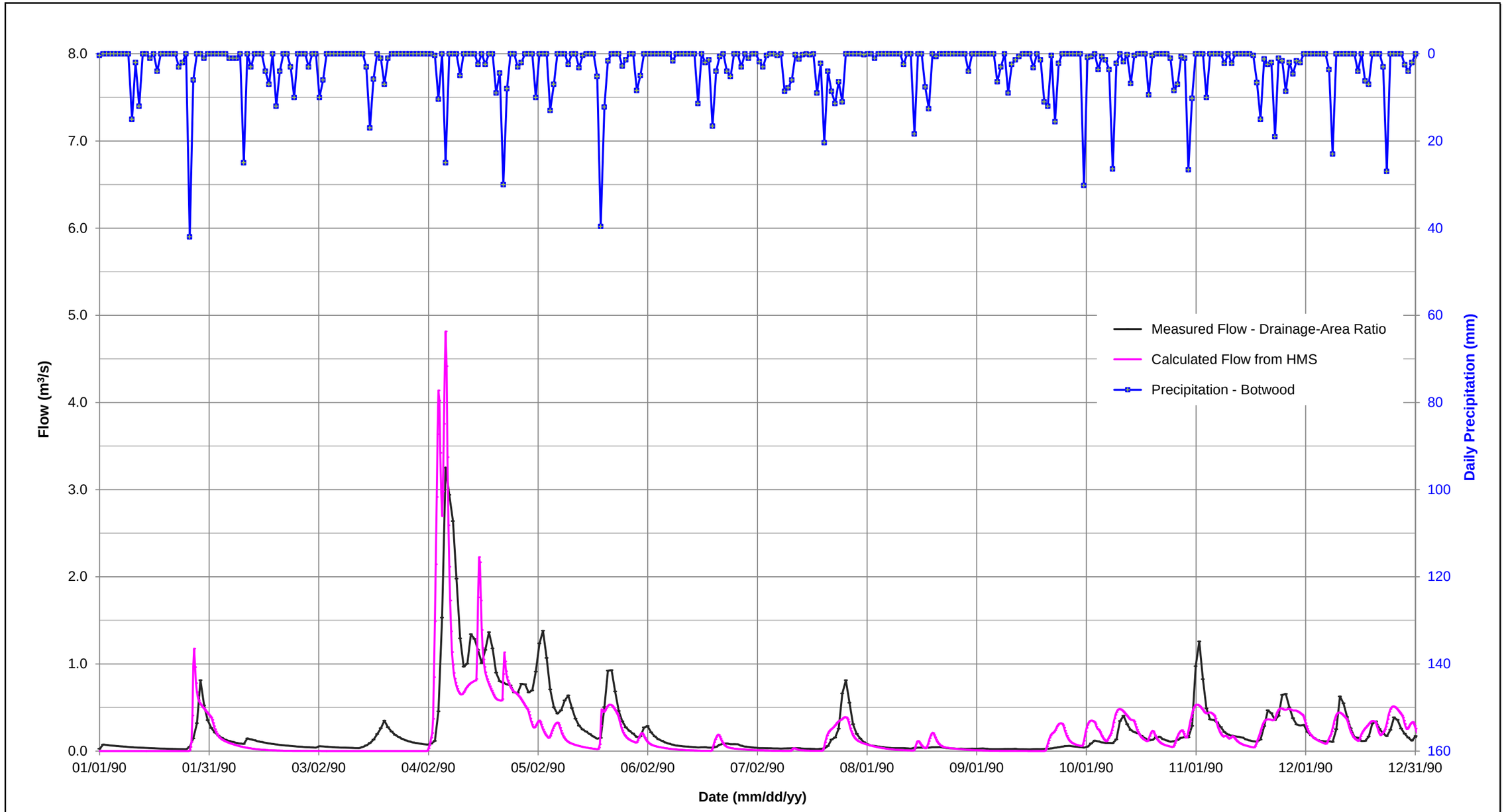



Figure 30b Simulated streamflow at the J6 location in 1990 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| **Location** | **Date** |
| Botwood, NL | March 2026 |

FFC

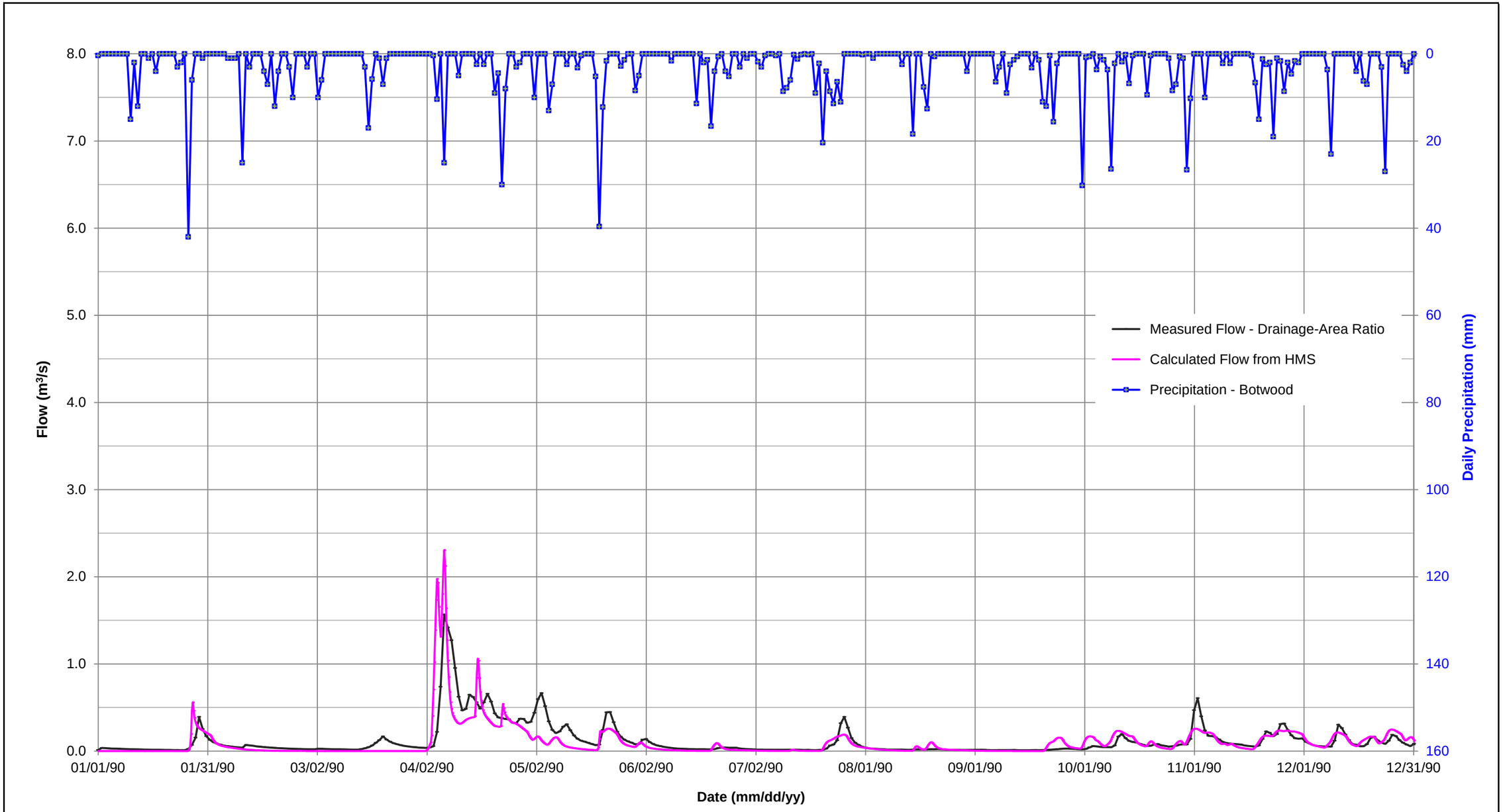



Figure 30c Simulated streamflow at the J1 location in 1990 using the HEC-HMS hydrology models for the Botwood Plant drainage basin with the calculated discharge using 'Drainage-Area Ratio Method' based on the Peters River discharge data for the corresponding time period.

| Project No. | Document Reference |
|---|---|
| 3191-8 | FFC-NL-3191-8-002 |
| Location | Date |
| Botwood, NL | March 2026 |

FFC

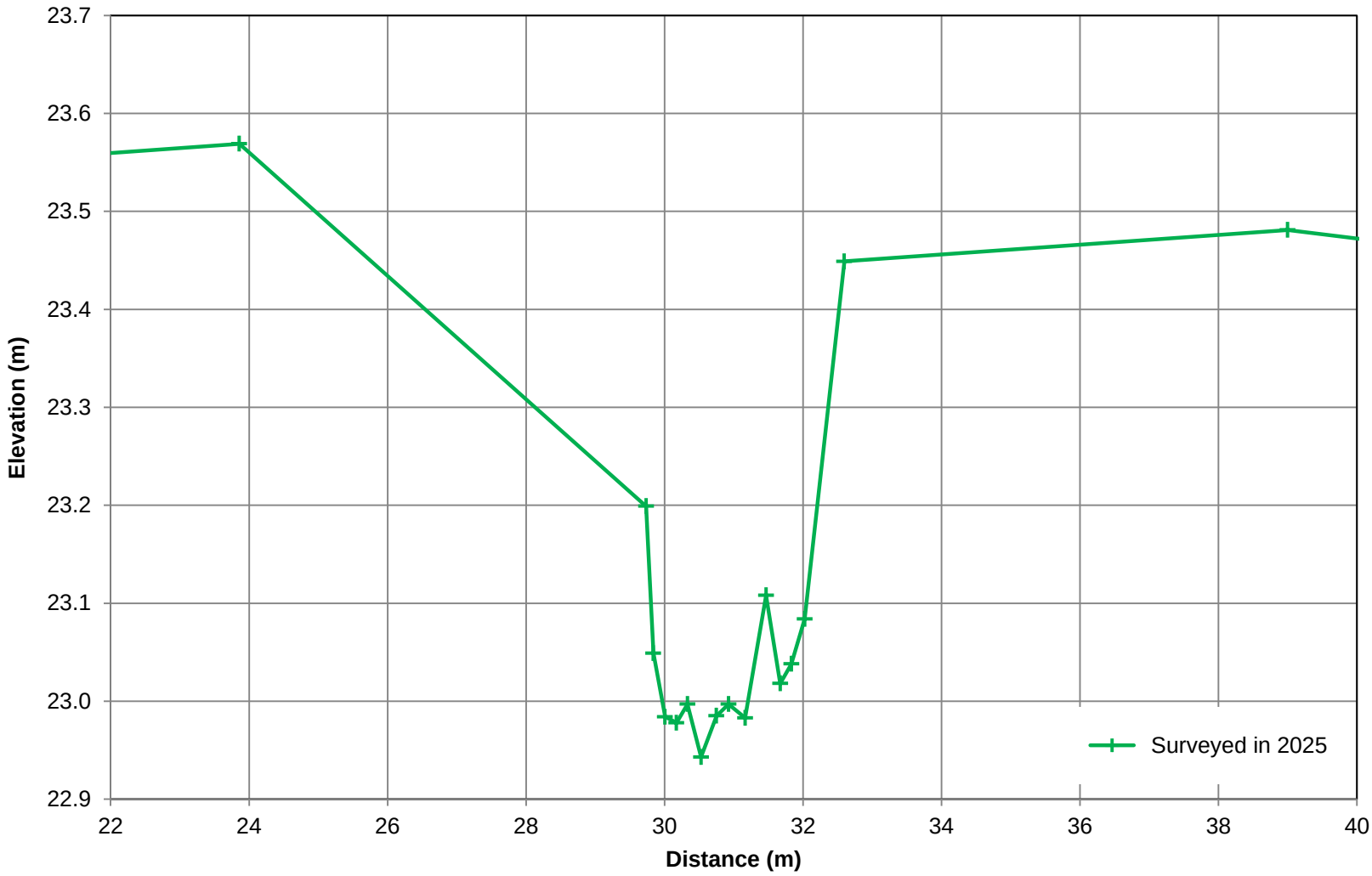



Figure 31 Elevation profile along a cross-section of stream at the J1-3 location.

| | |
|---|---|
| Project No. 3191-8 | Document Reference FFC-NL-3191-8-002 |
| Location Botwood, NL | Date March 2026 |

FFC

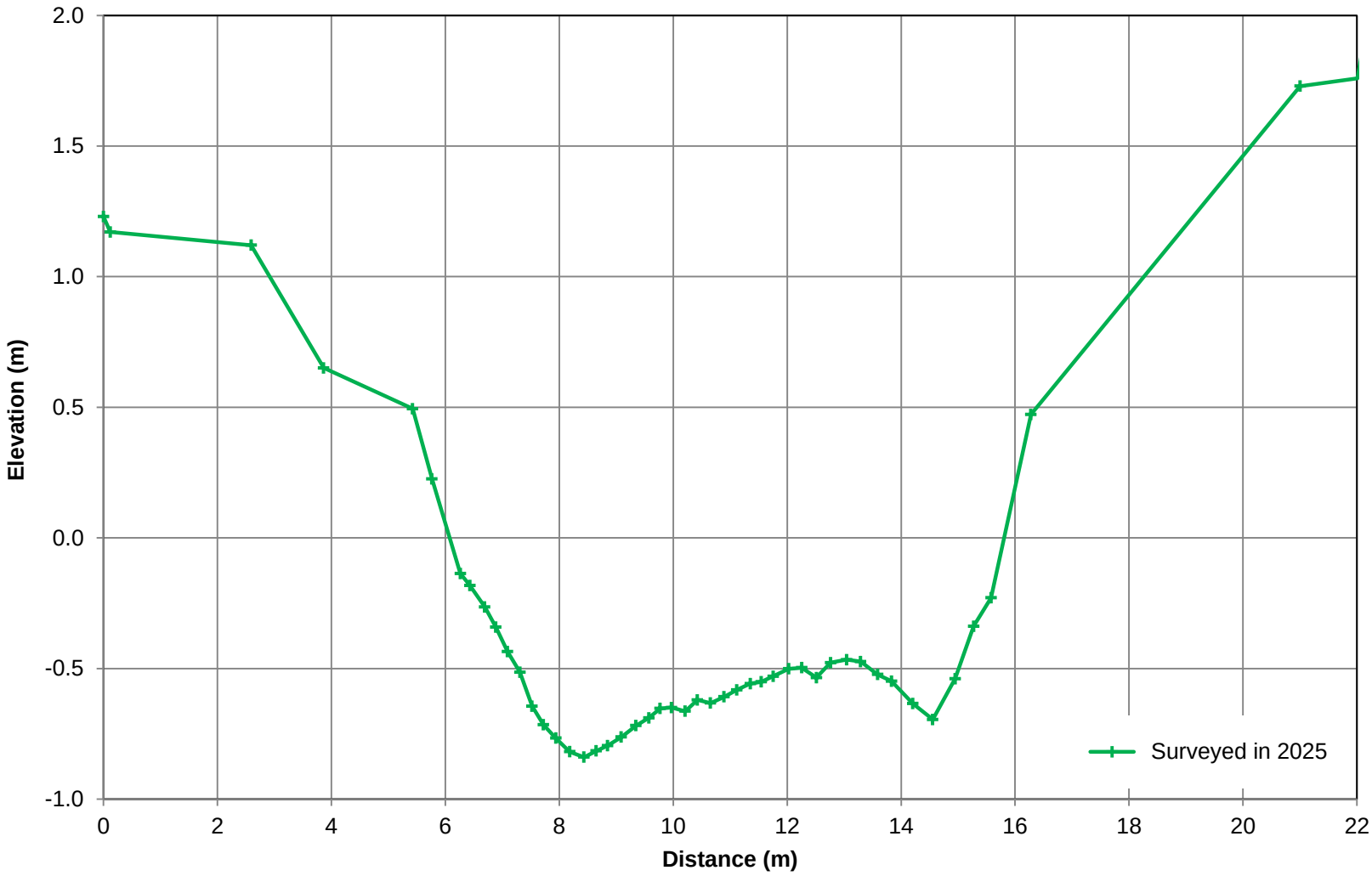



Figure 32 Elevation profile along a cross-section of stream at the J2-2 location.

| | |
|---|---|
| Project No. 3191-8 | Document Reference FFC-NL-3191-8-002 |
| Location Botwood, NL | Date March 2026 |

FFC

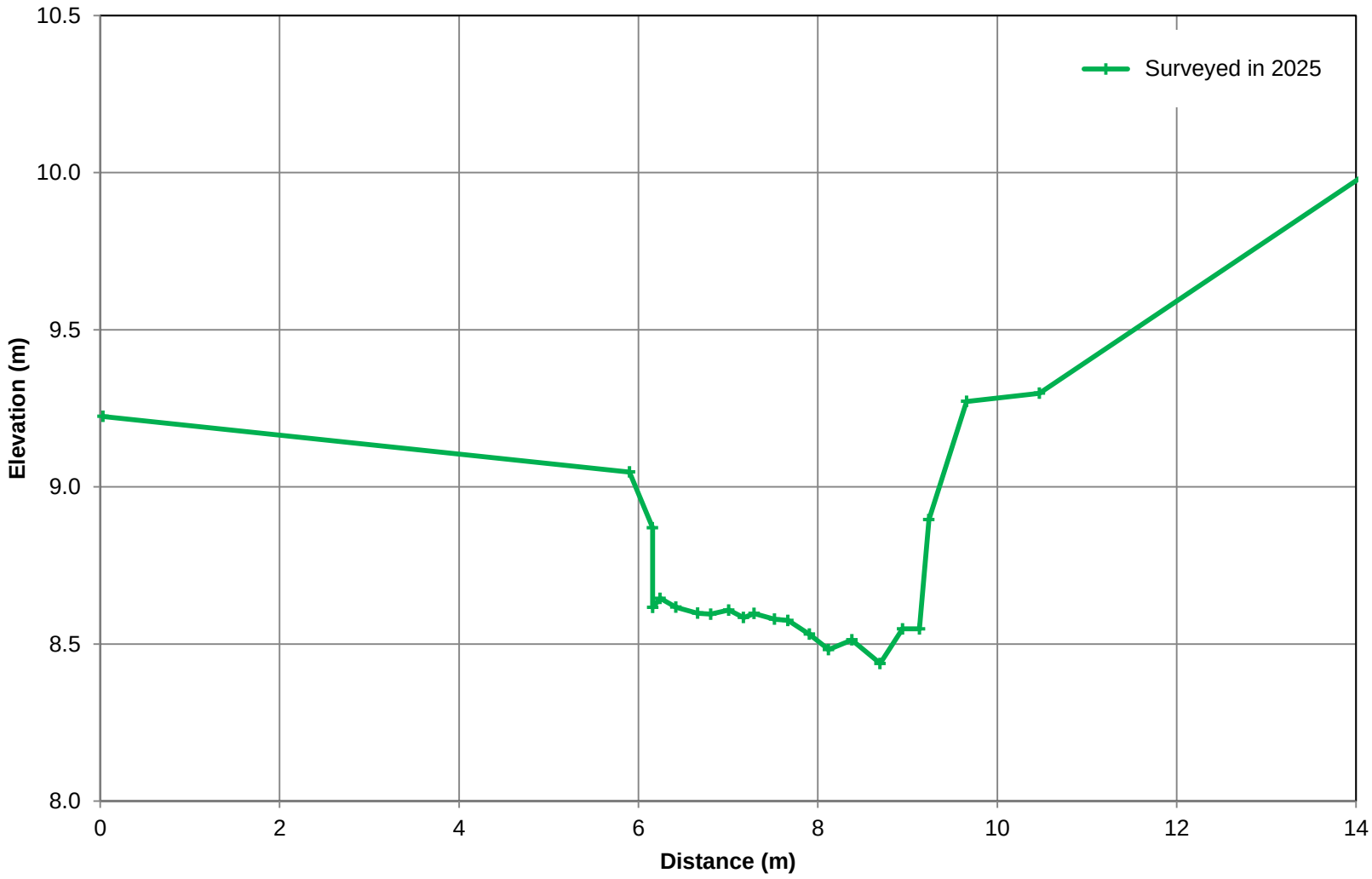



Figure 33 Elevation profile along a cross-section of stream at the J6-2 location.

| | |
|---|---|
| Project No. 3191-8 | Document Reference FFC-NL-3191-8-002 |
| Location Botwood, NL | Date March 2026 |

FFC

Figure 34

Photograph of the two culverts beneath an access road crossing the Main Stream near the outlet to Northern Arm Brook, Botwood, NL.

| | |
|---|---|
| Document Reference | FFC-NL-3191-8-002 |
| Location | Botwood, NL |
| Project No. | 3191-8 |
| Date | March 2026 |

FFC

Figure 35

Photograph of where the Main Stream outflows into Northern Arm Brook, with the bridge and road in the background, Botwood, NL.

Document Reference
FFC-NL-3191-8-002

Location
Botwood, NL

Project No.
3191-8

Date
March 2026

FFC

# *APPENDIX A*

## *Intensity-Duration-Frequency Data*

Environment and Climate Change Canada
Environnement et Changement climatique Canada

Short Duration Rainfall Intensity-Duration-Frequency Data
Données sur l'intensité, la durée et la fréquence des chutes de pluie de courte durée

Gumbel - Method of moments/Méthode des moments

2022/10/31

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BADGER (AUT) NL 8400301

Latitude: 48 58'N Longitude: 56 4'W Elevation/Altitude: 102 m

Years/Années : 2005 - 2021 # Years/Années : 15

==========

**********

Table 1 : Annual Maximum (mm)/Maximum annuel (mm)

**********

| Year / Année | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 6 h | 12 h | 24 h |
|---|---|---|---|---|---|---|---|---|---|
| 2005 | -99.9 | -99.9 | -99.9 | -99.9 | 13.2 | 13.8 | 22.4 | 34.9 | 47.2 |
| 2006 | 2.8 | 4.6 | 6.0 | 11.4 | 16.2 | 21.6 | 33.0 | 48.6 | 53.4 |
| 2007 | 5.0 | 8.4 | 10.4 | 13.0 | 17.0 | 23.8 | 44.4 | 51.2 | 51.4 |
| 2008 | 3.0 | 4.4 | 6.4 | 9.0 | 14.8 | 21.2 | 26.0 | 28.0 | 28.8 |
| 2009 | 6.0 | 10.8 | 13.0 | 16.6 | 26.0 | 30.4 | 52.0 | 54.6 | 64.8 |
| 2010 | 6.0 | 10.8 | 13.6 | 16.6 | 19.2 | 25.4 | 40.2 | 50.2 | 81.2 |
| 2011 | 3.2 | 4.4 | 5.4 | 9.6 | 15.8 | 23.8 | 44.6 | 47.4 | 47.4 |
| 2012 | 4.0 | 7.2 | 7.6 | 9.4 | 17.0 | 26.2 | 37.2 | 46.4 | 56.2 |
| 2013 | 3.8 | 5.6 | 7.8 | 11.8 | 14.6 | 19.0 | 34.2 | 53.4 | 69.0 |
| 2014 | 5.0 | 8.2 | 11.0 | 20.2 | 24.2 | 27.8 | 37.6 | 49.4 | 52.2 |
| 2016 | 3.8 | 4.2 | 4.8 | 7.0 | 13.0 | 25.2 | 57.8 | 106.0 | 123.8 |
| 2017 | 3.6 | 6.4 | 7.8 | 9.4 | 12.4 | 16.4 | 28.8 | 32.2 | 35.4 |
| 2018 | 11.2 | 15.6 | 18.0 | 23.4 | 26.0 | 29.8 | 38.0 | 51.8 | 58.8 |
| 2019 | 17.2 | 17.4 | 17.6 | 20.4 | 20.4 | 20.4 | 24.0 | 34.8 | 40.0 |
| 2020 | 3.8 | 4.2 | 4.6 | 6.6 | 9.6 | 15.2 | 19.4 | 30.6 | 38.4 |
| 2021 | 2.2 | 3.0 | 3.6 | 6.4 | 10.2 | 17.2 | 30.4 | 47.8 | 52.0 |
| # Yrs. / Années | 15 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 |
| Mean / Moyenne | 5.4 | 7.7 | 9.2 | 12.7 | 16.8 | 22.3 | 35.6 | 48.0 | 56.2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Std. Dev. Écart-type | 3.9 | 4.3 | 4.6 | 5.5 | 5.1 | 5.1 | 10.6 | 17.8 | 22.2 |
| Skew. Dissymétrie | 2.42 | 1.21 | 0.82 | 0.70 | 0.62 | -0.08 | 0.46 | 2.34 | 1.97 |
| Kurtosis | 9.20 | 4.21 | 3.17 | 2.86 | 3.06 | 2.58 | 3.33 | 10.87 | 8.49 |

*-99.9 Indicates Missing Data/Données manquantes

Warning: annual maximum amount greater than 100-yr return period amount
Avertissement : la quantité maximale annuelle excède la quantité pour une période de retour de 100 ans

| Year/Année | Duration/Durée | Data/Données | 100-yr/ans |
|---|---|---|---|
| 2016 | 12 h | 106.0 | 103.9 |

**********

Table 2a : Return Period Rainfall Amounts (mm)
Quantité de pluie (mm) par période de retour

**********

| Duration/Durée | 2 yr/ans | 5 yr/ans | 10 yr/ans | 25 yr/ans | 50 yr/ans | 100 yr/ans | #Years Années |
|---|---|---|---|---|---|---|---|
| 5 min | 4.7 | 8.2 | 10.5 | 13.4 | 15.5 | 17.6 | 15 |
| 10 min | 7.0 | 10.8 | 13.3 | 16.5 | 18.9 | 21.2 | 15 |
| 15 min | 8.4 | 12.5 | 15.2 | 18.6 | 21.1 | 23.6 | 15 |
| 30 min | 11.8 | 16.6 | 19.8 | 23.9 | 26.9 | 29.8 | 15 |
| 1 h | 16.0 | 20.5 | 23.5 | 27.3 | 30.2 | 32.9 | 16 |
| 2 h | 21.5 | 26.0 | 29.0 | 32.7 | 35.5 | 38.3 | 16 |
| 6 h | 33.9 | 43.3 | 49.5 | 57.4 | 63.2 | 69.0 | 16 |
| 12 h | 45.0 | 60.8 | 71.2 | 84.4 | 94.2 | 103.9 | 16 |
| 24 h | 52.6 | 72.3 | 85.3 | 101.7 | 113.9 | 126.0 | 16 |

**********

Table 2b :

Return Period Rainfall Rates (mm/h) - 95% Confidence limits
Intensité de la pluie (mm/h) par période de retour - Limites de confiance de 95%

**********

| Duration/Durée | 2 yr/ans | 5 yr/ans | 10 yr/ans | 25 yr/ans | 50 yr/ans | 100 yr/ans | #Years Années |
|---|---|---|---|---|---|---|---|
| 5 min | 56.8 | 98.3 | 125.7 | 160.5 | 186.2 | 211.8 | 15 |
| | +/- 21.8 | +/- 36.7 | +/- 49.6 | +/- 66.9 | +/- 80.1 | +/- 93.3 | 15 |
| 10 min | 41.8 | 64.7 | 79.9 | 99.0 | 113.2 | 127.3 | 15 |
| | +/- 12.0 | +/- 20.3 | +/- 27.4 | +/- 36.9 | +/- 44.1 | +/- 51.4 | 15 |
| 15 min | 33.7 | 50.0 | 60.7 | 74.4 | 84.5 | 94.5 | 15 |
| | +/- 8.6 | +/- 14.4 | +/- 19.5 | +/- 26.3 | +/- 31.4 | +/- 36.6 | 15 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 30 min | 23.6 | 33.3 | 39.7 | 47.8 | 53.8 | 59.7 | 15 |
| | +/- 5.1 | +/- 8.5 | +/- 11.5 | +/- 15.6 | +/- 18.6 | +/- 21.7 | 15 |
| 1 h | 16.0 | 20.5 | 23.5 | 27.3 | 30.2 | 32.9 | 16 |
| | +/- 2.3 | +/- 3.9 | +/- 5.3 | +/- 7.1 | +/- 8.5 | +/- 9.9 | 16 |
| 2 h | 10.7 | 13.0 | 14.5 | 16.4 | 17.8 | 19.2 | 16 |
| | +/- 1.1 | +/- 1.9 | +/- 2.6 | +/- 3.5 | +/- 4.2 | +/- 4.9 | 16 |
| 6 h | 5.6 | 7.2 | 8.3 | 9.6 | 10.5 | 11.5 | 16 |
| | +/- 0.8 | +/- 1.3 | +/- 1.8 | +/- 2.4 | +/- 2.9 | +/- 3.4 | 16 |
| 12 h | 3.8 | 5.1 | 5.9 | 7.0 | 7.8 | 8.7 | 16 |
| | +/- 0.7 | +/- 1.1 | +/- 1.5 | +/- 2.0 | +/- 2.5 | +/- 2.9 | 16 |
| 24 h | 2.2 | 3.0 | 3.6 | 4.2 | 4.7 | 5.3 | 16 |
| | +/- 0.4 | +/- 0.7 | +/- 0.9 | +/- 1.3 | +/- 1.5 | +/- 1.8 | 16 |

**********

Table 3 : Interpolation Equation / Équation d'interpolation: R = A*T^B

R = Interpolated Rainfall rate (mm/h)/Intensité interpolée de la pluie (mm/h)
RR = Rainfall rate (mm/h) / Intensité de la pluie (mm/h)
T = Rainfall duration (h) / Durée de la pluie (h)

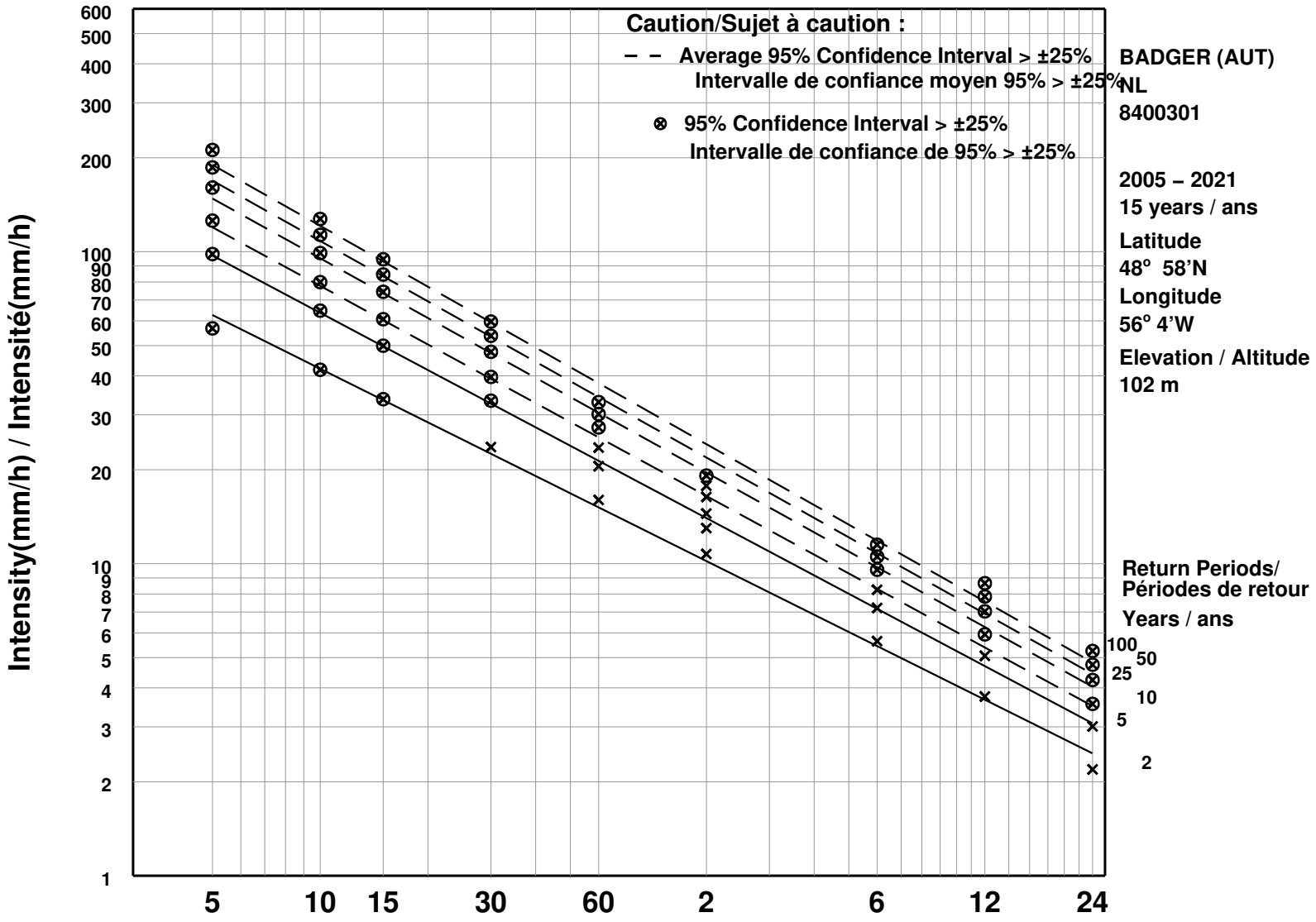
**********

| Statistics/Statistiques | 2 yr/ans | 5 yr/ans | 10 yr/ans | 25 yr/ans | 50 yr/ans | 100 yr/ans |
|---|---|---|---|---|---|---|
| Mean of RR/Moyenne de RR | 21.6 | 32.8 | 40.2 | 49.6 | 56.5 | 63.4 |
| Std. Dev. /Écart-type (RR) | 19.0 | 32.5 | 41.5 | 52.9 | 61.4 | 69.9 |
| Std. Error/Erreur-type | 2.3 | 0.8 | 2.7 | 5.2 | 7.2 | 9.1 |
| Coefficient (A) | 15.1 | 21.4 | 25.4 | 30.5 | 34.2 | 37.9 |
| Exponent/Exposant (B) | -0.571 | -0.610 | -0.624 | -0.636 | -0.643 | -0.648 |
| Mean % Error/% erreur moyenne | 5.1 | 3.0 | 4.7 | 6.9 | 8.2 | 9.2 |

# Short Duration Rainfall Intensity–Duration–Frequency Data

2022/10/31

# Données sur l'intensité, la durée et la fréquence des chutes de pluie de courte durée




Environment Canada Environnement Canada

Canada