



Aplin & Martin Consultants Ltd.

ENVIRONMENTAL SOIL CHARACTERIZATION AND GROUNDWATER SAMPLING

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Executive Summary

EXP Services Inc. (EXP) was retained by to Aplin & Martin Consultants Ltd. ("the Client") to provide the geotechnical and environmental services for the above-referenced project. EXP understands that the project involves the installation of approximately 60 to 70 lineal meters of new force main that traverses from PS SA-16 along a laneway east of Burnette Battery, then takes a 90-degree bend through a parking lot on the north side of Brunette Battery and connects to the existing main along Rousseau Street. It is understood the invert depth would be in the order of 1.5m below existing grade. The eastern section of the alignment is in a lowland area suspected of having soft soils and then climbs uphill to the Rousseau Street connection sewers along Glen Drive with the south end starting at approximately the south end of the intersection with E. Pender Street and will run just north of the lane south of E Hastings Street. It is understood that the sewer invert will be approximately 4.5 m deep.

The objective of the Environmental soil characterization was to determine its suitability for relocation to a receiving site or a permitted treatment facility or an authorized landfill facility based on identifying concentrations of tested potential contaminants of concern (PCOCs). Groundwater environmental assessment was conducted to determine if any treatment would be required prior to pumping and treating and disposing groundwater that would be encountered during future excavations as part of the project.

The following are our conclusions:

- Soil impacts for metals above the BC Contaminated Sites Regulation (CSR) Industrial Land Use (IL) Standards were identified at AH26-01 and AH26-02.
- Soil impacts for polycyclic aromatic hydrocarbons (PAHs) above the CSR Agricultural land use (AL) Standards were identified at AH26-01.
- Groundwater exceedances exceeding the CSR Standards, BC Water Quality Guidelines (WQGs), City of New Westminster (CoNW) and Greater Vancouver Sewerage and Drainage District (GVS&DD) bylaws were identified.

Our recommendations are as follows:

- Any excess soil generated during construction excavations should be disposed at a permitted receiving facility and waste tracking manifests should accompany each load transported and disposed at a permitted receiving facility. The excess soil will be characterized as exceeding the CSR IL standards (IL+). The waste tracking manifests should be signed by qualified professional.
- Groundwater extracted as part of a dewatering system should be treated prior to discharge into the City's sewer (sanitary or storm) under an applicable permit or authorization.
- If any odourous soil or soil with debris is found in future construction excavations, such soil should be characterized by a qualified professional prior to disposal at a permitted receiving facility.
- A notice of commencement of independent remediation along with a Site Risk Classification should be submitted to the BC Ministry of Environment and Parks (BC ENV) as part of the independent remediation process. A notice of completion of independent remediation should be submitted within 90 days of completion of remedial activities.

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1. INTRODUCTION

EXP Services Inc. (EXP) was retained by to Aplin & Martin Consultants Ltd. (“the Client”) to provide the geotechnical and environmental services for the above-referenced project. EXP understands that the project involves the installation of approximately 60 to 70 lineal meters of new force main that traverses from PS SA-16 along a laneway east of Burnette Battery, then takes a 90-degree bend through a parking lot on the north side of Brunette Battery and connects to the existing main along Rousseau Street. It is understood the invert depth would be in the order of 1.5m below existing grade. The eastern section of the alignment is in a lowland area suspected of having soft soils and then climbs uphill to the Rousseau Street connection sewers along Glen Drive with the south end starting at approximately the south end of the intersection with E. Pender Street and will run just north of the lane south of E Hastings Street. It is understood that the sewer invert will be approximately 4.5m deep.

2. SCOPE OF WORK

Environmental soil characterization was completed in general accordance with the BC Contaminated Sites Regulation (CSR) soil standards for suspected Potential Contaminants of Concern (PCOCs) to determine its suitability for relocation to a receiving site or a permitted treatment facility or an authorized landfill facility based on identifying concentrations of tested PCOCs. Groundwater environmental assessment was completed to determine if groundwater meets the requirements of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015 and Greater Vancouver Sewerage and Drainage District (GVSD) Sewer Use Bylaw No. 299, 2007, for the disposal of groundwater into the storm or sanitary or combined sewer.

Based on our understanding of the project environmental requirements, EXP conducted environmental soil sampling in conjunction with the geotechnical drilling and exploration, and subsequent groundwater sampling at the installed monitoring wells.

The scope of the work for the proposed environmental investigation included the following:

Task-1: In-situ Soil Environmental Assessment

The following was the scope of work for environmental soil characterization:

- Review of previous reports and construction/utility drawings for the proposed sewer separation stretch.
- Collect information for the surrounding off-site properties with known previous contamination.
- Preliminary review of surrounding land use in order to refine the list of potential contaminants of concern (PCOCs) related to historical land uses/operations adjacent to the City roadway and/or surrounding listed properties.
- Carry out field exploration along with Geotechnical staff at the proposed three borehole locations, with the boreholes to be drilled to a maximum depth of approximately 3 to 4.5m below ground surface, and each completed with a groundwater monitoring well. Each monitoring well will be constructed with clean 50mm PVC pipe (solid with a screened section at the bottom) and the borehole annulus will be backfilled with clean filter sand and a bentonite seal as per industry standard and Ministry of Environment and Parks (ENV) guidance and protocols.
- Log the encountered soil stratigraphy at the borehole locations.

- Collect seven soil samples (including a field duplicate) from both borehole locations for soil environmental characterization purposes.
- Field screen soil samples using a RKI Eagle operating in methane elimination mode to select soil samples based on headspace vapour readings for potential laboratory analysis.
- Submit soil samples from the boreholes on a regular turnaround time of five (5) to seven (7) business days to a Canadian Association of Accredited Laboratories (CALA) accredited laboratory for analyses of the potential contaminants of concern (PCOCs) including metals, sodium and chloride by saturated paste method, light and heavy extractable petroleum hydrocarbons (LEPH/HEPH), polycyclic aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX) and volatile petroleum hydrocarbons (VPH). Samples will be collected from select depths based on field observations of soil conditions, indications of potential contamination, and the apparent groundwater table.

Task-2: Groundwater Environmental Assessment for off-site Disposal

The following was the scope of work for groundwater assessment:

- Review of the City's Sewer and Drainage Bylaw and GVSD's Sewer Use Bylaw No. 299, 2007 related to the disposal of groundwater from a construction site to storm or sanitary/combined sewer;
- Prepare groundwater sampling and analysis program for PCOCs regulated in the city and GVSD Bylaws, BC Approved WQGs and the CSR;
- Develop the newly installed three (3) monitoring wells using Waterra™ tubing and foot valves on the day or the next day after the well installation;
- Purge and collect groundwater samples at each well using dedicated bailers following 24 hours of well development and test for parameters in general accordance with the City of New Westminster Sewerage and Drainage Regulation Bylaw and Schedule B of Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007;
- Submit groundwater samples to a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory on a regular turnaround time of five (5) to seven (7) business days;
- Test the groundwater samples for pH, biochemical oxygen demand (BOD), total suspended solids (TSS), light extractable petroleum hydrocarbons (LEPHw), Extractable Petroleum Hydrocarbons (EPHw), oil & grease, polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), total benzene, toluene, ethylbenzene and xylenes (BTEX), total and dissolved metals and ions; and,
- Tabulate and compare the groundwater analytical results to regulatory standards/guidelines as listed in the City and GVSD Bylaws and BC Water Quality Guidelines (WQGs) for storm discharge and GVSD's Sewer Use Bylaw for sanitary/combined sewer discharge of groundwater.

Task-3: Reporting

- Prepare an environmental soil assessment report with recommendations for soil disposal by including data tabulation and comparison of the soil analytical results with the CSR Agricultural (AL), Residential Low-Density (RL_{LD}), Residential High Density (RL_{HD}), Commercial (CL), and Industrial (IL) Land Use standards for off-site soil disposal purposes.

- The findings of the groundwater assessment including conclusions and recommendations for off-site disposal with required treatment options were also to be included in the report.

3. SITE ASSESSMENT CRITERIA

The assessment was conducted in general accordance with the requirements of the BC ENV and the BC CSR. The following provincial legislations were considered for the evaluation of the laboratory analytical results against the applicable land, water and vapour use standards:

- *Contaminated Sites Regulation (CSR) B.C. Reg. 375/96 [Last amended October 27, 2025, by B.C. Reg. 171/2025]. British Columbia Ministry of Environment 1997.*
- *Environmental Management Act (EMA), Chapter 53 [SBC 2003] [includes 1151 Bill 13, c. 13 amendments (effective June 2, 2011)]. British Columbia Ministry of Environment, 2003.*
- *Hazardous Waste Regulation (HWR) B.C. Reg. 63/88 O.C. 268/88 [Last amended March 6, 2024, by B.C. Reg. 42/2024]. British Columbia Ministry of Environment, 1988.*

Per BC ENV' Protocol 4 for Contaminated Sites – Establishing Background Concentrations (P4) and Protocol 9 for Contaminated Sites – Determining Background Groundwater Quality (P9), a “release” is provided when concentrations of substances at a site do not exceed local background levels specified in these protocols. Therefore, when assessing a site, onsite substance concentrations may be evaluated against background concentrations. Should concentrations be less than those outlined in these protocols, the identified substance concentrations will not be considered as exceeding, and the Site will not be a “contaminated site” based on the elevated background substance concentration. Background soil and groundwater concentrations are provided in P4 and P9, respectively, and were considered, where appropriate, when evaluating analytical data.

For characterization/disposal purposes, soil analytical results from this assessment have been compared to applicable CSR standards for Agricultural (AL), Residential Low-Density (RL_{LD}) and High-Density (RL_{HD}), Commercial (CL), and Industrial (IL) land uses for evaluation and screening purposes. The following site-specific factors were applied: intake of contaminated soil, groundwater used for drinking water, toxicity to soil invertebrates and plants, livestock ingesting soil and fodder, major microbial functional impairment, groundwater flow to surface water used by freshwater and marine aquatic life, groundwater used for livestock watering and for irrigation. For groundwater, CSR AWF (Brunette River is located within 500 m from the Site) and DW Standards (applicable at all sites unless certain hydrogeological conditions exist which need to be demonstrated as per requirements of BC ENV's Protocol 21- Water Use Determination) were applied. The groundwater results were also compared to City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7466, 2015, Greater Vancouver Sewerage and Drainage District (GVS&DD) Sewer Use Bylaw No. 299, 2007 and BC Water Quality Guidelines (Approved and Working).

4. FIELD ACTIVITIES AND METHODOLOGIES

4.1. Service Clearances

Prior to the commencement of borehole drilling, utility locates were conducted by EXP's Geotechnical team.

During the survey, locations of underground utilities were identified, and the planned drilling locations were cleared with electromagnetic, and ground-penetrating radar (GPR) technology. The drilling locations were subsequently chosen based on the field locate information regarding underground utilities.

4.2. Borehole Drilling and Soil Sampling

On January 15, 2026, three (3) boreholes were drilled to depths ranging from 4.5 – 5.2 mbgs under the full-time supervision of EXP staff using a track-mounted solid stem auger drill rig operated and provided by Downrite Drilling Ltd. of Chilliwack, BC. All three (3) boreholes were installed with monitoring wells. The borehole locations were also chosen following acceptable utility clearance.

The approximate locations of the boreholes are presented on Figure 2. Selected photographs captured during borehole drilling are included in Appendix A. Details of the boreholes, including well construction, are summarized in Appendix B.

The details for the boreholes are summarized in the table below:

Table 1: Summary of Borehole Completion Depths and Approximate Borehole Locations

ID	Final Depth (mbgs)	Monitoring Screen (mbgs)	Well Interval	Comments
AH26-01	5.2	4.3 – 5.2		Roadway – to the west of 425 Brunette Ave.
AH26-02	4.5	3.0 – 4.5		Parking lot – southeastern corner
AH26-03	4.5	3.0 – 4.5		Parking lot – southwestern corner

Representative soil samples were collected in general accordance with the BC ENV's Technical Guidance on Contaminated Sites No. 1: Site Characterization and Confirmation Testing (TG1).

Dedicated powder-free nitrile gloves (i.e., one pair per sample) were used during sample handling. No petroleum-based greases or solvents were used during field activities.

EXP staff continuously monitored the soil retrieved from the borehole to log the stratigraphy, to record the depths of the soil samples, total depths of the boreholes, and to record visual or olfactory observations of any potential impacts. No odourous soil was observed during the drilling. Soil headspace vapour measurements were measured using RKI Eagle II operating in methane elimination mode.

The soil samples identified for possible laboratory analysis were collected from the solid stem augers and placed directly into pre-cleaned, laboratory-supplied glass sample jars/vials/bags. The soil samples were entered into a laboratory chain of custody and transported to ALS Environmental Laboratory (ALS) of Burnaby, BC for analysis.

4.3. Monitoring Well Installations

On January 15, 2026, a total of three (3) groundwater monitoring wells were installed in the boreholes by a qualified well driller in general accordance with the BC ENV's Guidance Document #8 (Groundwater Investigation and Characterization) to facilitate the collection of groundwater samples.

The monitoring wells were constructed using a 50mm diameter, Schedule 40 PVC screen and appropriate length riser pipe. The installed well screens were 0.9 – 1.5 m in length with a slot size of approximately

0.25 mm (slot 10) and were sealed at the base with a PVC end cap. The annular space around the well screen was backfilled with silica sand to approximately 0.15 metres above the top of the screen. The sand pack was extended above the screen to allow for compaction of the sand pack and expansion of the overlying well seal. Bentonite was backfilled from the top of the screen sand pack to approximately 0.45 metres below ground surface. The monitoring wells were completed with filter sand pack and flush-mounted/stick-up well covers. Lubricants and adhesives were not used when constructing the monitoring well.

Note: When no longer required, the monitoring wells must be decommissioned in accordance with the procedure outlined in the BC Groundwater Protection Regulation under the BC Water Sustainability Act.

4.4. Monitoring Well Development and Groundwater Sampling

The groundwater investigations and sampling were conducted in general accordance with BC ENV Technical Guidance on Contaminated Sites No. 8: Groundwater Investigation and Characterization (TG8).

EXP attended the Site on January 16, 2026, to develop the three (3) newly installed monitoring wells. The well development was conducted using dedicated, disposable bailers until approximately five (5) casing volumes of water were removed or until the monitoring wells went dry. Monitoring well development is required to ensure that any potential residual materials from the drilling have been removed and to ensure that representative groundwater from the surrounding formation is infiltrating the well screen prior to sampling.

Groundwater monitoring and sampling activities were conducted on January 19, 2026. Prior to sampling, the depths to groundwater in the monitoring wells were measured using a Water Level Meter and the wells were purged until various field-measured parameters (temperature, conductivity, pH) in the groundwater were observed to be stable (i.e., two (2) consecutive readings within 5%) without purging an entire casing volume first. Groundwater stabilization and sampling activities were completed using low-flow methodology via dedicated high-density polyethylene (HDPE) tubing and a peristaltic pump. Once the wells stabilized, samples were collected for laboratory analysis. Headspace readings were measured by using RKI Eagle II owned and calibrated by EXP. The RKI Eagle II was set to operate in the methane elimination mode. The groundwater samples for VOCs were collected using dedicated bailers following stabilization of the measured parameters in each monitoring well.

The groundwater samples were entered into a laboratory chain of custody and were transported to ALS Environmental Laboratory in Burnaby, BC for laboratory analysis. The soil and groundwater samples were submitted to the laboratory to be analyzed on a regular turnaround time.

4.5. Residue Management

Residue generated during the investigation, including drill cuttings from the drilling activities and purge water from the monitoring wells, was transferred into dedicated drums and stored onsite (425 Brunette Ave., New Westminster) for subsequent pickup by an environmental contractor for offsite disposal at a permitted receiving facility.

5. LABORATORY ANALYSIS

Soil and groundwater samples were transported to ALS Environmental Laboratory (ALS) of Burnaby, BC under Chain of Custody protocol for chemical analysis in a cooler with icepacks. Laboratory Certificates of Analysis for soil and groundwater are provided in Appendix C and Appendix D, respectively.

Representative soil samples were submitted for laboratory analysis of LEPHs, HEPHs, PAHs, metals and sodium and chloride ions by saturated paste.

Groundwater samples were submitted for EPHw, LEPhw, HEPHw, PAHs, VOCs including BTEX and VPHs, total metals, dissolved metals, BOD, TSS, Oil and Grease, total cyanide and anions including chloride and sulphate.

6. OBSERVATIONS AND RESULTS

The following sections summarize the findings of the investigation. The analytical results are presented in Tables 1 to 12 following the report text.

6.1. Soil Monitoring

No odorous soil (i.e., petroleum hydrocarbon like odour) was observed during the fieldwork.

The detailed soil profiles encountered at the borehole locations are provided on the attached borehole logs (Appendix B) with field observations. Boundaries of soils indicated on the log are intended to reflect transition zones for environmental assessment and should not be interpreted as exact planes of geological change. Description of the soil stratigraphy at AH26-03 is summarized in the following table:

Table 2: Summary of Soil Stratigraphy

Borehole ID	Depth	Soil Stratigraphy
AH26-03	0 - 0.05	Asphalt
	0.05 – 0.3	Dark brown Silt, trace to some fine-grained sand, some clay, trace rootlets and organics, moist (soft), no odour
	0.3 – 1.2	Clayey Silt, trace fine-grained sand, brownish grey to light grey, moist, no odour
	1.2 – 4.5	Silty sand, some gravel, grey, no odour

Copies of the borehole logs provided by EXP's Geotechnical team are presented in Appendix B.

6.2. Groundwater Monitoring

EXP attended the Site on January 16, 2026, to measure water levels, well depths and headspace readings prior to well development. Groundwater sampling was conducted on January 19, 2026. Headspace vapour readings measured using a RKL Eagle II on the day of groundwater sampling were below instrument detection limits.

The monitoring data collected prior to groundwater sampling on January 19, 2026, is summarized in the following table:

Table 3: Summary of Well Monitoring Data

Well ID	Water Level Depth (m btop)	Well Depth (m btop)	Headspace (ppm)	Groundwater Quality
AH26-01	0.383	5.116	0	Unclear water with suspended fines, no odour
AH26-02	0.070	4.412	0	Clear water, no odour
AH26-03	0.251	4.422	0	Cloudy water with minor suspended fines, no odour

Notes:

m btop – metres below top of pipe; ppm – parts per million;

6.3. Soil Quality – Analytical Results

- Concentrations of L/HEPHs and VOCs including BTEX and VPHs were reported to be below the reported detection limits and thus were below the applicable CSR Standards. No exceedances were identified.
- Concentrations of metals, sodium, chloride, and PAHs were below the applicable CSR Standards except for the following exceedances:

Table 4: Summary of soil exceedances

Sample ID	Parameter	CSR Standard exceeded
AH26-01@9'	Benz(a)anthracene	AL
	Benzo(b+j)fluoranthenes	
	Phenanthrene	
	Pyrene	
	Aluminum (Al)	AL, RL _{LD} , RL _{HD}
AH26-02@4'	Arsenic (As)	AL, RL _{LD} , RL _{HD} , CL, IL
	Cobalt (Co)	AL, RL _{LD} , RL _{HD} , CL, IL
	Iron (Fe)	AL, RL _{LD} , RL _{HD}
	Vanadium (V)	AL, RL _{LD} , RL _{HD} , CL, IL
	Aluminum (Al)	AL, RL _{LD} , RL _{HD}
AH26-02@4'	Arsenic (As)	AL, RL _{LD} , RL _{HD} , CL, IL
	Iron (Fe)	AL, RL _{LD} , RL _{HD}
	Vanadium (V)	AL, RL _{LD} , RL _{HD} , CL, IL

The analytical results for the soil samples from the boreholes are presented in Tables 1 - 5. The laboratory certificate is presented in Appendix C.

6.4. Groundwater Quality – Analytical Results

The groundwater samples were compared to the applicable BC CSR AW_F and DW Standards, BC Water Quality Guidelines (Working and Approved) and Greater Vancouver Sewerage and Drainage District By Law No. 299, 2007. The groundwater analysis results are summarized below:

Extractable Hydrocarbons (LEPHw/HEPHw)

- Concentrations of LEPHw/HEPHw were reported to be below the reported detection limits in all three monitoring wells and thus were below the applicable CSR Standards, BC WQGs and GVS&DD by-law. No exceedances were identified.

Polycyclic Aromatic Hydrocarbons (PAHs)

- PAHs exceedances were identified to be exceeding both BC WQGs (AH26-01 and AH26-02) and applicable CSR Standards (AH26-01).
- Total PAHs exceedances exceeding the GVS&DD by law were identified in monitoring well AH26-01 and its duplicate sample (DUP-1).
- Detectable concentrations of PAHs were identified in all three monitoring wells.

Volatile Organic Compounds (VOCs)

- Concentrations of VOCs including BTEX and VPHs were reported to be below the reported detection limits in all three monitoring wells and thus were below the applicable CSR Standards, BC WQGs and GVS&DD by-law. No exceedances were identified.

Dissolved Metals

- Concentrations of dissolved metals were below the applicable CSR Standards and GVS&DD by law and therefore, no exceedances exceeding the CSR Standards and/or GVS&DD by law were identified. However, dissolved copper and dissolved zinc exceedances exceeding the BC WQGs were identified in the groundwater sample collected from AH26-01.

Total Metals

- Concentrations of total metals were below GVS&DD by-law and therefore, no exceedances exceeding the GVS&DD by law were identified.
- Total metals exceedances exceeding the BC WQGs were identified in all three monitoring wells.

Biological Oxygen Demand (BOD), Oil & Grease

- Concentrations of BOD, Oil & Grease (total and mineral) were reported to be below the reported detection limits in all three monitoring wells and therefore, no exceedances were identified.

Chloride ion, Sulfate and total Cyanide

- Concentrations of chloride ion, sulfate and total cyanide were below the applicable CSR Standards, BC WQGs and GVS&DD by-law and therefore, no exceedances were identified.

The results of groundwater samples are presented in Tables 6 - 12. The laboratory certificate is presented in Appendix D.

7. FIELD AND LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

Details regarding quality assurance measures followed in the field, including use of dedicated equipment, sample storage and Chain of Custody documentation have been provided in the report. The subcontracted laboratory (ALS Environmental, Burnaby, BC) used during this investigation followed BC ENV approved methods.

The analytical program conducted by the laboratory included the analytical test group-specific QA/QC measures to evaluate the accuracy and precision of the analytical results and the efficiency of analyte recovery during solute extraction procedures. The QA/QC program consisted of the preparation and analysis of laboratory duplicate samples to assess precision and sample homogeneity, method blanks to assess analytical bias, spiked blanks and QC standards to evaluate analyte recovery, matrix spikes to evaluate matrix interferences and surrogate compound recoveries to evaluate extraction efficiency. The laboratory QA/QC results are presented in the Quality Assurance Report provided in the Certificates of Analysis prepared by the laboratory. The QA/QC results are reported as percent recoveries for matrix spikes, spike blanks and QC standards, relative percent difference for laboratory duplicates and analyte concentrations for method blanks.

The Relative Percent Difference (RPDs) was calculated to compare the differences between a sample and its duplicate. RPD quantifies the reproducibility or precision of the data. RPD is calculated by taking the absolute value of the difference between the sample and the duplicate, dividing it by the average of the sample and duplicate, and then multiplied by 100 to obtain a percentage.

$$RPD = \frac{|\text{Sample Concentration} - \text{Duplicate Concentration}|}{\left(\frac{\text{Sample Concentration} + \text{Duplicate Concentration}}{2}\right)} * 100\%$$

BC Environmental Laboratory Manual (2020) (BC ELM) recommends that further review is conducted for RPD values greater than 35% in soil or 20% in groundwater. If the concentration of the analyte is less than five (5) times the method detection limit, or if the analyte is a metal in soil, then an RPD greater than 35% may be reasonable. Furthermore, due to sensitivities of the RPD formula to small data, elevated RPD values may be discounted where sample and duplicate concentrations were less than five (5) times the laboratory detection limit (also referred to as the practical quantification limit). If the RPD is greater than 50% in soil or groundwater, it is generally necessary to determine the cause and how it affects the findings of the investigation. For soil-vapour, though a recommendation is not provided by BC ELM, further review is conducted where RPD values exceed 100%.

EXP analyzed a minimum of one (1) duplicate for every ten (10) analyzed soil and groundwater samples.

The following duplicates were collected:

Soil:

- DUP-A – duplicate of AH26-02@14' analyzed for Metals.
- DUP-B - duplicate of AH26-03@14' analyzed for Metals.

Groundwater:

- DUP-1 – duplicate of AH26-01 analyzed for LEPHw/EPHw/PAHs and total metals.

The RPDs for the results of the parent and corresponding duplicate soil samples are presented in the analytical tables next to the parent samples. RPDs for soil and groundwater samples and their duplicates were within the acceptable limits. Therefore, analytical data is considered to be reliable.

8. CONCLUSIONS AND RECOMMENDATIONS

The following are our conclusions:

- Soil impacts for metals above the BC Contaminated Sites Regulation (CSR) Industrial Land Use (IL) Standards were identified at AH26-01 and AH26-02.

- Soil impacts for polycyclic aromatic hydrocarbons (PAHs) above the CSR Agricultural land use (AL) Standards were identified at AH26-01.
- Groundwater exceedances exceeding the CSR Standards, BC Water Quality Guidelines (WQGs), City of New Westminster (CoNW) and Greater Vancouver Sewerage and Drainage District (GVS&DD) bylaws were identified.

Our recommendations are as follows:

- Any excess soil generated during construction excavations should be disposed at a permitted receiving facility and waste tracking manifests should accompany each load transported and disposed at a permitted receiving facility. The excess soil will be characterized as exceeding the CSR IL standards (IL+). The waste tracking manifests should be signed by qualified professional.
- Groundwater extracted as part of a dewatering system should be treated prior to discharge into the City's sewer (sanitary or storm) under an applicable permit or authorization.
- If any odourous soil or soil with debris is found in future construction excavations, such soil should be characterized by a qualified professional prior to disposal at a permitted receiving facility.
- A notice of commencement of independent remediation along with a Site Risk Classification should be submitted to the BC Ministry of Environment and Parks (BC ENV) as part of the independent remediation process. A notice of completion of independent remediation should be submitted within 90 days of completion of remedial activities.

9. QUALIFICATIONS OF ASSESSORS

The project was designed, supervised, managed, and reviewed by Mr. Jay Rao, P.Eng., CSAP who has more than twenty-five years of civil/environmental engineering experience. He has reviewed or completed more than 1,000 Stage 1 PSIs/Phase I ESAs, several Stage 2 PSIs, Detailed Site Investigation reports over the years for due diligence purposes and has made several submissions to the BC ENV. He is a Contaminated Sites Approved Professional (numerical standards) with the BC ENV and has demonstrated experience in the assessment and remediation of complex sites.

This report has been reviewed by Ms. Jas Minhas, who is an Environmental Toxicologist with 18 years of experience in conducting, managing, and reviewing contaminated site assessments including Stage 1 and 2 Preliminary Site Investigations, Detailed Site Investigations, Underground Storage Tank removals, due diligence reviews and quantitative human health and qualitative ecological risk assessments in BC. She has authored several reports submitted to BC ENV to obtain legal instruments.

The fieldwork involving drilling and groundwater sampling was conducted by Navneet Banga, B.Sc. Ms. Banga completed the field work execution (including drilling, soil sampling, monitoring well installation and groundwater sampling) and report preparation. Ms. Banga has more than seven (7) years of experience in conducting environmental investigations.

Groundwater development activities including well development were conducted by Keenan Yang, M.A.Sc., EIT. Ms. Yang has more than six (6) years experience in conducting groundwater investigations.

10. REFERENCES

- *Contaminated Sites Regulation (CSR) B.C. Reg. 375/96 [Last amended October 27, 2025, by B.C. Reg. 171/2025]. British Columbia Ministry of Environment 1997.*

- *Environmental Management Act (EMA), Chapter 53 [SBC 2003] [includes 1151 Bill 13, c. 13 amendments (effective June 2, 2011)]. British Columbia Ministry of Environment, 2003.*
- *Hazardous Waste Regulation (HWR) B.C. Reg. 63/88 O.C. 268/88 [Last amended March 6, 2024, by B.C. Reg. 42/2024]. British Columbia Ministry of Environment, 1988.*

11. INTERPRETATION & USE OF STUDY AND REPORT

11.1. STANDARD OF CARE

This study and Report have been prepared in accordance with generally accepted engineering consulting practices in this area. No other warranty, expressed or implied, is made. Engineering studies and reports do not include environmental consulting unless specifically stated in the engineering report.

11.2. COMPLETE REPORT

All documents, records, data and files, whether electronic or otherwise, generated as part of this assignment are a part of the Report which is of a summary nature and is not intended to stand alone without reference to the instructions given to us by the Client, communications between us and the Client, and to any other reports, writings, proposals or documents prepared by us for the Client relative to the specific site described herein, all of which constitute the Report.

IN ORDER TO PROPERLY UNDERSTAND THE SUGGESTIONS, RECOMMENDATIONS AND OPINIONS EXPRESSED HEREIN, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. WE CANNOT BE RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT.

11.3. BASIS OF THE REPORT

The Report has been prepared for the specific site, development, building, design or building assessment objectives and purpose that were described to us by the Client. The applicability and reliability of any of the findings, recommendations, suggestions, or opinions expressed in the document are only valid to the extent that there has been no material alteration to or variation from any of the said descriptions provided to us unless we are specifically requested by the Client to review and revise the Report in light of such alteration or variation.

11.4. USE OF THE REPORT

The information and opinions expressed in the Report, or any document forming the Report, are for the sole benefit of the Client. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION THEREOF WITHOUT OUR WRITTEN CONSENT. WE WILL CONSENT TO ANY REASONABLE REQUEST BY THE CLIENT TO APPROVE THE USE OF THIS REPORT BY OTHER PARTIES AS "APPROVED USERS". The contents of the Report remain our copyright property and we authorize only the Client and Approved Users to make copies of the Report only in such quantities as are reasonably necessary for the use of the Report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make the Report, or any portion thereof, available to any party without our written permission. Any use which a third party makes of the Report, or any portion of the Report, are the sole responsibility of such third parties. We accept no responsibility for damages suffered by any third party resulting from unauthorized use of the Report.

11.5. INTERPRETATION OF THE REPORT

- 1) Nature and Exactness of Descriptions: Classification and identification of soils, rocks, geological units, contaminant materials, building envelopment assessments, and engineering estimates have been based on investigations performed in accordance with the standards set out in Paragraph 1. Classification and identification of these factors are judgmental in nature and even comprehensive sampling and testing programs, implemented with the appropriate equipment by experienced personnel, may fail to locate some conditions. All investigations, or building envelope

descriptions, utilizing the standards of Paragraph 1 will involve an inherent risk that some conditions will not be detected and all documents or records summarizing such investigations will be based on assumptions of what exists between the actual points sampled. Actual conditions may vary significantly between the points investigated and all persons making use of such documents or records should be aware of, and accept, this risk. Some conditions are subject to change over time and those making use of the Report should be aware of this possibility and understand that the Report only presents the conditions at the sampled points at the time of sampling. Where special concerns exist, or the Client has special considerations or requirements, the Client should disclose them so that additional or special investigations may be undertaken which would not otherwise be within the scope of investigations made for the purposes of the Report.

- 2) Reliance on Provided information: The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site inspections and on the basis of information provided to us. We have relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, we cannot accept responsibility for any deficiency, misstatement or inaccuracy contained in the report as a result of misstatements, omissions, misrepresentations, or fraudulent acts of persons providing information.
- 3) To avoid misunderstandings, EXP Services Inc. (EXP) should be retained to work with the other design professionals to explain relevant engineering findings and to review their plans, drawings, and specifications relative to engineering issues pertaining to consulting services provided by EXP. Further, EXP should be retained to provide field reviews during the construction, consistent with building codes guidelines and generally accepted practices. Where applicable, the field services recommended for the project are the minimum necessary to ascertain that the Contractor's work is being carried out in general conformity with EXP's recommendations. Any reduction from the level of services normally recommended will result in EXP providing qualified opinions regarding adequacy of the work.

11.6. REPORT FORMAT

When EXP submits both electronic file and hard copies of reports, drawings and other documents and deliverables (EXP's instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by EXP shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancy, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by EXP shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of EXP's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EXP. The Client warrants that EXP's instruments of professional service will be used only and exactly as submitted by EXP.

The Client recognizes and agrees that electronic files submitted by EXP have been prepared and submitted using specific software and hardware systems. EXP makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

12. CLOSURE

It should be understood that this report was prepared based on the information provided by the Client and EXP's understanding of project as described in Section 3. Also note that this report has been prepared for the exclusive use of our client, and their designated agents, and may not be used by any other parties without the written consent of EXP. Above is our "Interpretation & Use of Study and Report". These instructions form an integral part of this report and must be included with any copies of this report.

We trust this report meets your present requirements.



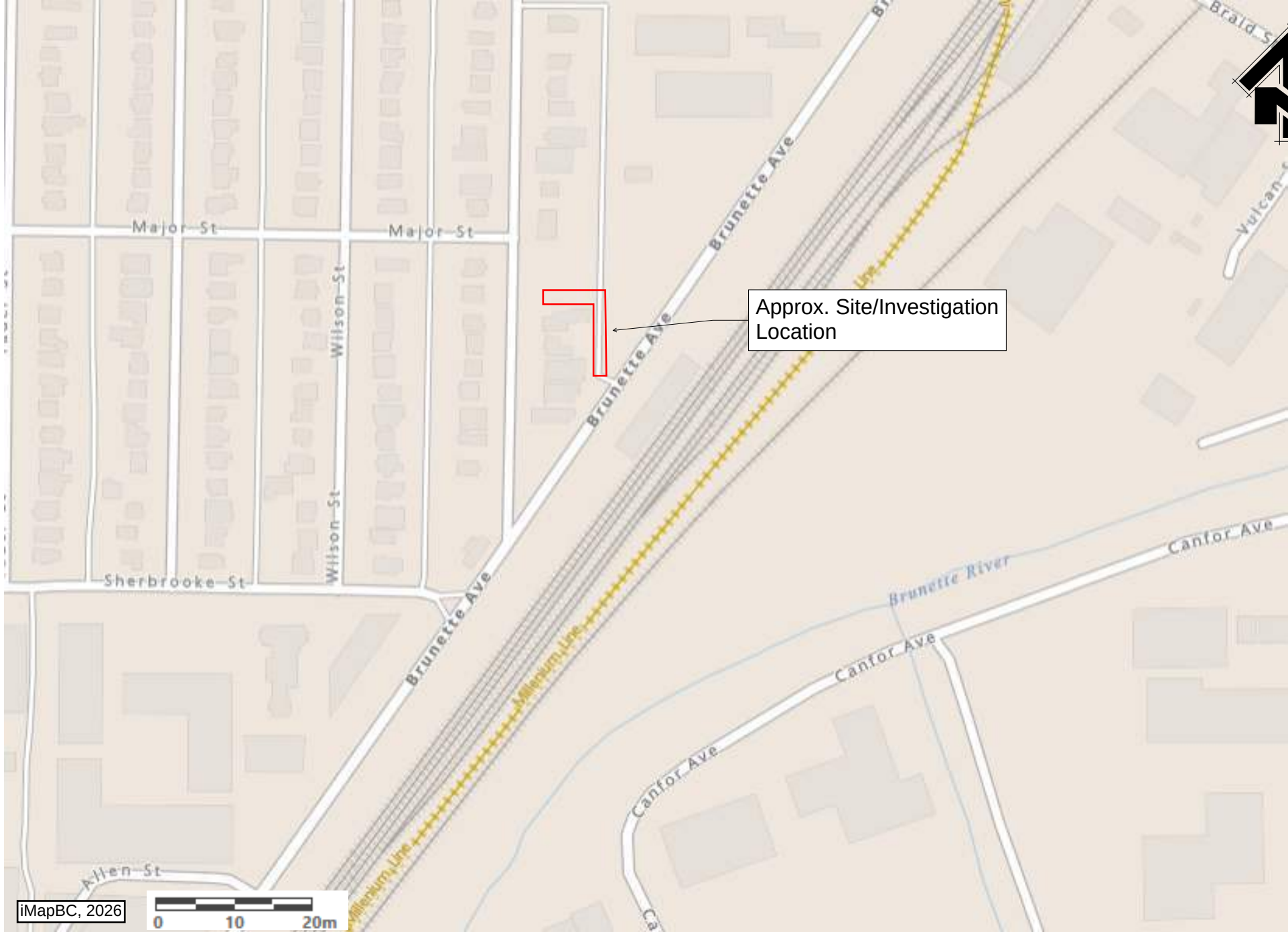
Figures

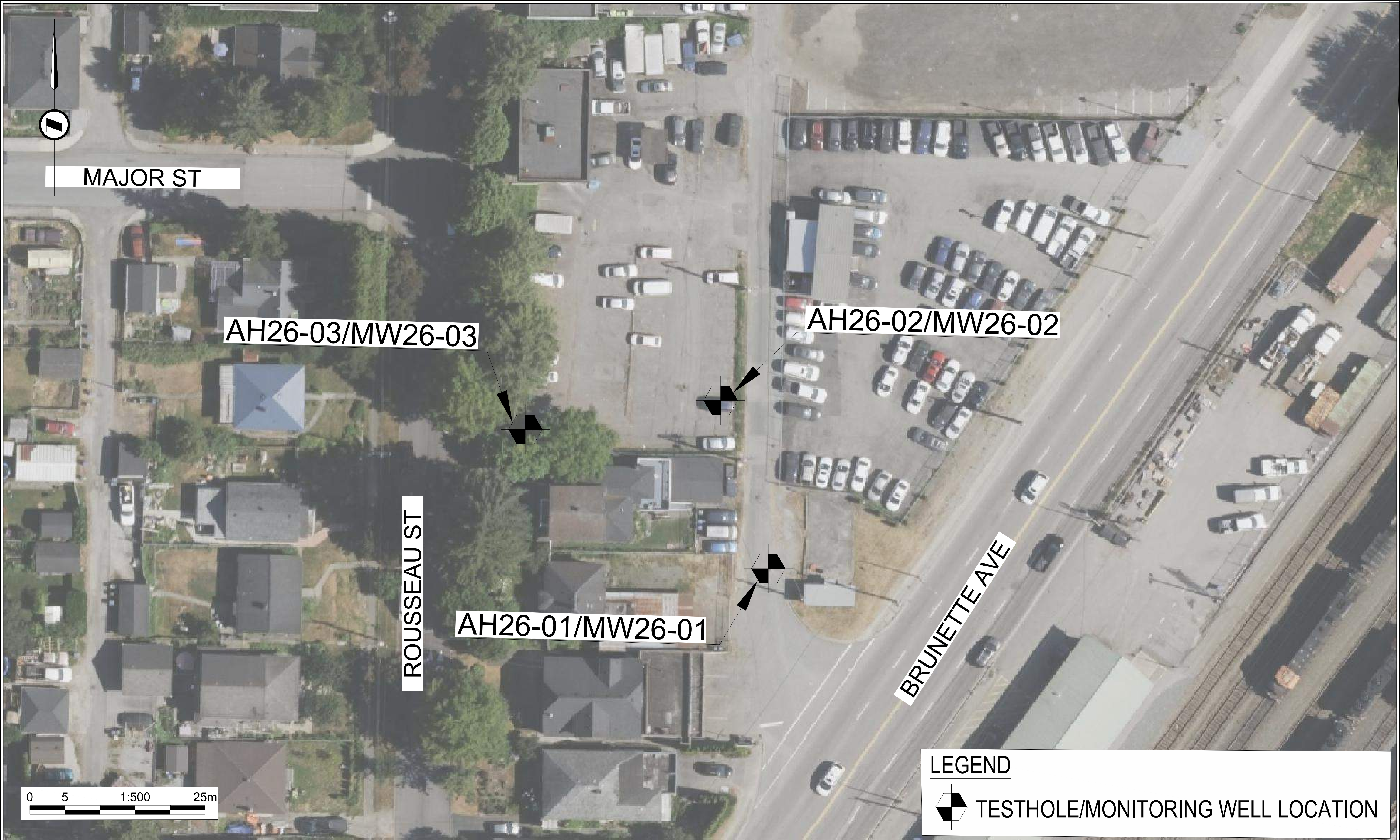
Figure 1: Site Location Plan

Figure 2: Borehole/Monitoring Well/Soil Vapour Probe Location Plan

Figure 3: Soil Results Summary

Figure 4: Groundwater Results Summary



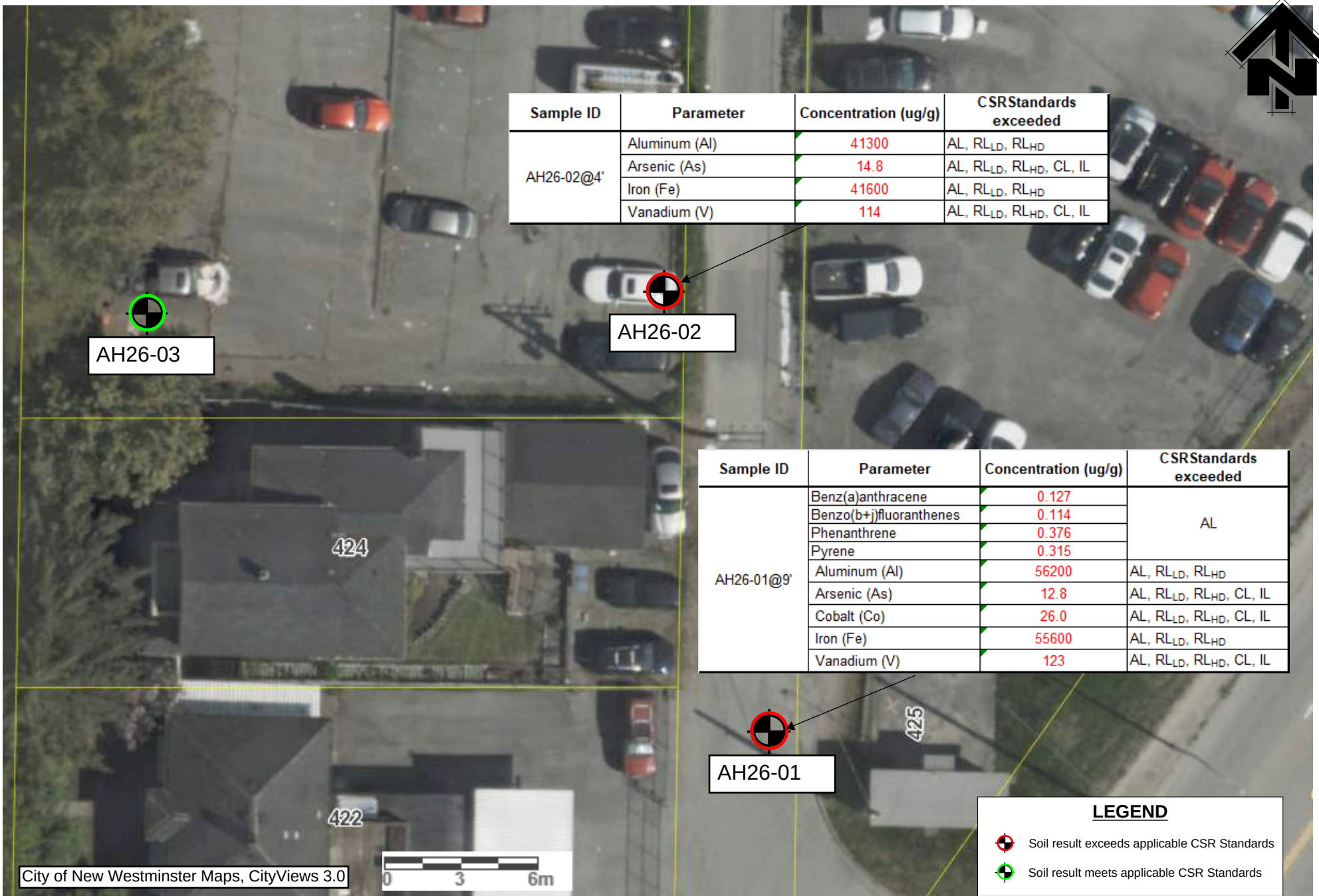


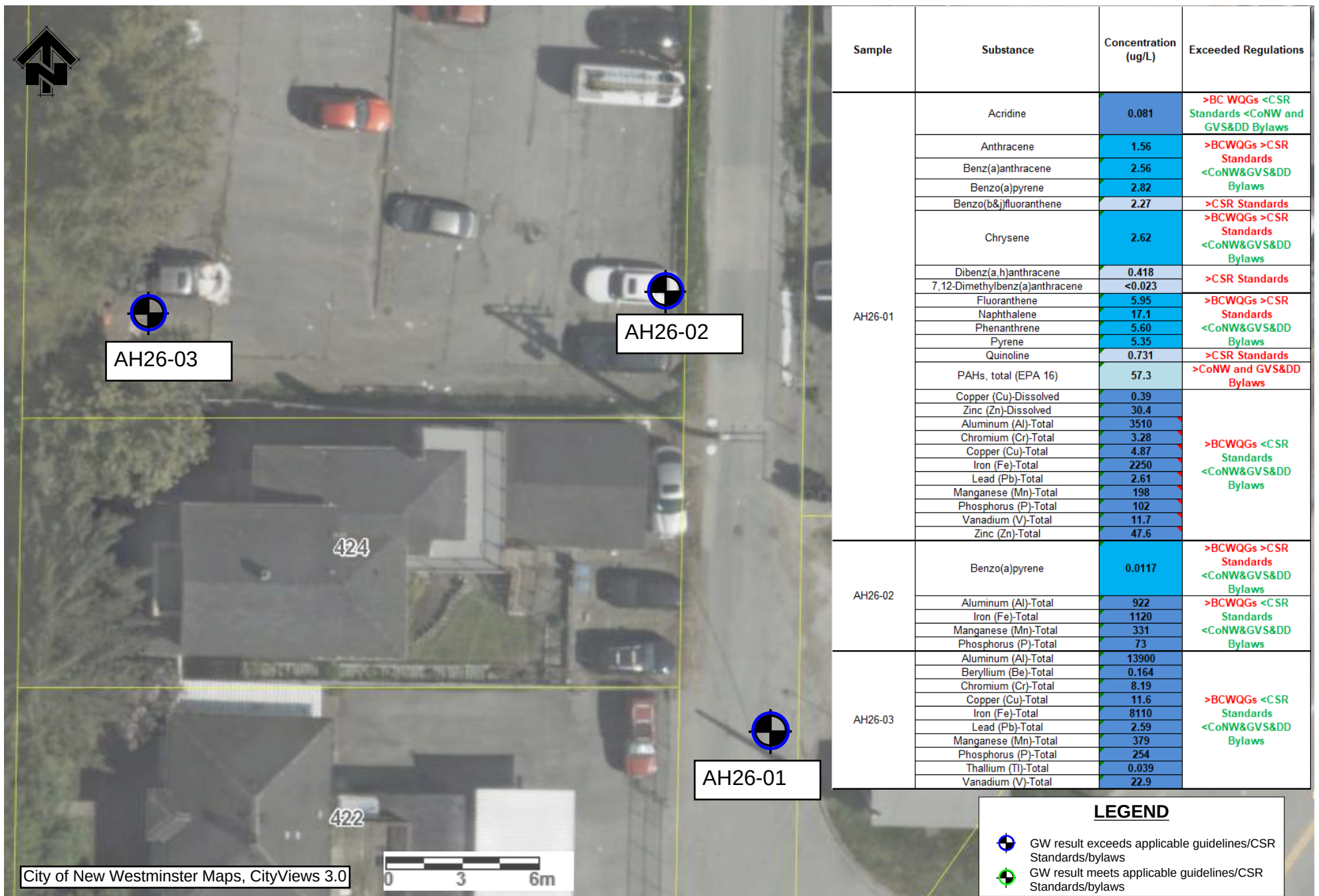
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Fax: 604-874-2358
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DFTR.	No.	REVISIONS		DATE
		DESCRIPTION		
JL				
DSGN.				
JL				
CHK.				
BW				

CLIENT	APLIN & MARTIN CONSULTANTS LTD.
PROJECT	CITY OF NEW WESTMINSTER SA-16 SANITARY PUMP STATION
PROJECT NO.	WCA-25016719-A0

TITLE:	TESTHOLE LOCATION PLAN		
DATE	2026-01-19	SCALE:	1:500
DWG NO.	FIGURE 2		





Tables

Table 1: Soil Analytical Results - Extractable Petroleum Hydrocarbons

Table 2: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

Table 3: Soil Analytical Results - Metals

Table 4: Groundwater Analytical Results - Extractable Petroleum Hydrocarbons

Table 5: Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons

Table 1
Soil Analytical Results - Petroleum Hydrocarbons (PHCs)
LEPH, HEPH, and EPH
Sheet 1 of 1

EXP Sample ID			AH26-01@9'	AH26-02@9'	AH26-03@9'	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	BC CSR CL Standards	BC CSR IL Standards
Laboratory Sample ID			VA26A1045-003	VA26A1045-008	VA26A1045-012					
Date Sampled (dd-mmm-yyyy)			15-Jan-2026	15-Jan-2026	15-Jan-2026					
Sample Depth (m)			2.7	2.7	2.7					
Parameter	RDL	Units								
LEPHs (C10-C19 less PAH)	200	µg/g	<200	<200	<200	1000	1000	1000	2000	2000
HEPHs (C19-C32 less PAH)	200	µg/g	<200	<200	<200	1000	1000	1000	5000	5000
EPH (C10-C19)	200	µg/g	<200	<200	<200	NS	NS	NS	NS	NS
EPH (C19-C32)	200	µg/g	<200	<200	<200	NS	NS	NS	NS	NS

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to B.C. Reg. 171/2025, October 27, 2025) (Site specific factors includes - Intake of contaminated soil, Groundwater used for drinking water, Toxicity to soil invertebrates and plants, Groundwater flow to surface water used by aquatic life (F-Freshwater, M-Marine), Groundwater used for livestock and irrigation).
Standards	Schedule 3.1 Numerical Soil Standards
AL	Agricultural Land Use
RL _{LD}	Low Density Residential Land Use
RL _{HD}	High Density Residential Land Use
CL	Commercial Land Use
IL	Industrial Land Use
EPH	Extractable petroleum hydrocarbons
HEPH	Heavy extractable petroleum hydrocarbons in soil
LEPH	Light extractable petroleum hydrocarbons in soil
NS	No standard applies
RDL	Reported detection limit
Result	Detectable Concentration
Result	Analytical result exceeds CSR AL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards



Table 2
Soil Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Sheet 1 of 1

EXP Sample ID			AH26-01@9'	AH26-02@9'	AH26-03@9'	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	BC CSR CL Standards	BC CSR IL Standards
Laboratory Sample ID			VA26A1045-003	VA26A1045-008	VA26A1045-012					
Date Sampled (dd-mmm-yyyy)			15-Jan-2026	15-Jan-2026	15-Jan-2026					
Sample Depth (m)			2.7	2.7	2.7					
Parameter	RDL	Units								
Acenaphthene	0.0050	µg/g	0.0589	<0.0050	<0.0050	950	950	2000	15000	15000
Acenaphthylene	0.0050	µg/g	0.0060	<0.0050	<0.0050	NS	NS	NS	NS	NS
Acridine	0.010	µg/g	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS
Anthracene	0.0040	µg/g	0.135	<0.0040	<0.0040	2.5	2.5	30	30	30
Benz(a)anthracene	0.010	µg/g	0.127	<0.010	<0.010	0.1	1	10	10	10
Benzo(a)pyrene	0.010	µg/g	0.121	<0.010	<0.010	5	5	10	30	50
Benzo(b+j)fluoranthenes	0.010	µg/g	0.114	<0.010	<0.010	0.1	1	10	10	10
Benzo(b+j+k)fluoranthene	0.015	µg/g	0.163	<0.015	<0.015	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	0.010	µg/g	0.079	<0.010	<0.010	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	0.010	µg/g	0.049	<0.010	<0.010	0.1	1	10	10	10
Chrysene	0.010	µg/g	0.138	<0.010	<0.010	200	200	400	4500	4500
Dibenz(a,h)anthracene	0.0050	µg/g	0.0159	<0.0050	<0.0050	0.1	1	10	10	10
Fluoranthene	0.010	µg/g	0.375	<0.010	<0.010	50	50	200	200	200
Fluorene	0.010	µg/g	0.069	<0.010	<0.010	600	600	1000	9500	9500
Indeno(1,2,3-c,d)pyrene	0.010	µg/g	0.081	<0.010	<0.010	0.1	1	10	10	10
1-Methylnaphthalene	0.010	µg/g	0.020	<0.010	<0.010	250	250	500	1000	1000
2-Methylnaphthalene	0.010	µg/g	0.026	<0.010	<0.010	60	60	100	950	950
Naphthalene	0.010	µg/g	0.060	<0.010	<0.010	0.6	0.6	20	20	20
Phenanthrene	0.010	µg/g	0.376	<0.010	<0.010	0.1	5	50	50	50
Pyrene	0.010	µg/g	0.315	<0.010	<0.010	0.1	10	100	100	100
Quinoline	0.010	µg/g	<0.010	<0.010	<0.010	2.5	2.5	4.5	10	10

Notes		
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Standards	Schedule 3.1 Numerical Soil Standards	
AL	Agricultural Land Use	
RL _{LD}	Low Density Residential Land Use	
RL _{HD}	High Density Residential Land Use	
CL	Commercial Land Use	
IL	Industrial Land Use	
NS	No standard applies	
RDL	Reported detection limit	
Result	Detectable concentration	
Result	Analytical result exceeds CSR AL Standards	
Result	Analytical result exceeds CSR AL, RL _{LD} Standards	
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards	
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards	
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards	



Table 3
Soil Analytical Results - Volatile Organic Compounds (VOCs)
Sheet 1 of 1

EXP Sample ID			AH26-01@4.5'	AH26-02@9'	AH26-03@2'	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	BC CSR CL Standards	BC CSR IL Standards
Laboratory Sample ID			VA26A1045-002	VA26A1045-008	VA26A1045-016					
Date Sampled (dd-mmm-yyyy)			15-Jan-2026	15-Jan-2026	15-Jan-2026					
Sample Depth (m)			1.37	2.7	0.6					
Parameter	RDL	Units								
VPH (C6-C10)	10	µg/g	<10	<10	<10	200	200	200	200	200
Volatile Hydrocarbons (VH6-10)	10	µg/g	<10	<10	<10	NS	NS	NS	NS	NS
Benzene	0.0050	µg/g	<0.0050	<0.0050	0.0057	0.035	0.035	0.035	0.035	0.035
Bromodichloromethane	0.050	µg/g	<0.050	<0.050	<0.050	100	100	200	550	550
Bromoform	0.050	µg/g	<0.050	<0.050	<0.050	300	300	650	4000	4000
Butadiene, 1,3-	0.050	µg/g	<0.050	<0.050	<0.050	2	2	4	9.5	9.5
Carbon Tetrachloride	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
Chlorobenzene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	1	10	10	10
Chloroethane	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Chloroform	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
Chloromethane	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Cymene, p-	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Decane, n-	4.00	µg/g	<4.00	<4.00	<4.00	NS	NS	NS	NS	NS
Dibromochloromethane	0.050	µg/g	<0.050	<0.050	<0.050	85	85	150	400	400
Dibromoethane, 1,2-	0.050	µg/g	<0.050	<0.050	<0.050	3.5	3.5	7	15	15
1,2-Dichlorobenzene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	1	10	10	10
1,3-Dichlorobenzene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	1	10	10	10
1,4-Dichlorobenzene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	1	10	10	10
1,1-Dichloroethane	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
1,2-Dichloroethane	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
1,1-Dichloroethylene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
cis-1,2-Dichloroethylene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
trans-1,2-Dichloroethylene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
Dichloromethane	0.045	µg/g	<0.045	<0.045	<0.045	0.1	5	50	50	50
1,2-Dichloropropane	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
1,3-Dichloropropene (cis & trans)	0.075	µg/g	<0.075	<0.075	<0.075	0.1	5	50	50	50
cis-1,3-Dichloropropylene	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
trans-1,3-Dichloropropylene	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Ethylbenzene	0.015	µg/g	<0.015	<0.015	<0.015	15	15	15	15	15
Hexane, n-	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Isopropylbenzene	0.050	µg/g	<0.050	<0.050	<0.050	1500	1500	3000	25000	25000
Methylcyclohexane	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Methyl t-butyl ether (MTBE)	0.040	µg/g	<0.040	<0.040	<0.040	4000	4000	8000	20000	20000
Propylbenzene, n-	0.050	µg/g	<0.050	<0.050	<0.050	1500	1500	3000	25000	25000
Styrene	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
1,1,1,2-Tetrachloroethane	0.050	µg/g	<0.050	<0.050	<0.050	250	250	550	1500	1500
1,1,2,2-Tetrachloroethane	0.050	µg/g	<0.050	<0.050	<0.050	35	35	70	150	150
Tetrachloroethylene	0.050	µg/g	<0.050	<0.050	<0.050	2.5	2.5	2.5	2.5	2.5
Toluene	0.050	µg/g	<0.050	<0.050	0.076	0.5	0.5	0.5	0.5	0.5
1,1,1-Trichloroethane	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
1,1,2-Trichloroethane	0.050	µg/g	<0.050	<0.050	<0.050	0.1	5	50	50	50
Trichloroethylene	0.010	µg/g	<0.010	<0.010	<0.010	0.3	0.3	0.3	0.3	0.3
Trichlorofluoromethane	0.050	µg/g	<0.050	<0.050	<0.050	4500	4500	9000	70000	70000
Trimethylbenzene, 1,2,4-	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Trimethylbenzene, 1,3,5-	0.050	µg/g	<0.050	<0.050	<0.050	150	150	300	2500	2500
Vinyl Chloride	0.050	µg/g	<0.050	<0.050	<0.050	0.95	0.95	2	45	45
meta- & para-Xylene	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
ortho-Xylene	0.050	µg/g	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS
Xylenes	0.075	µg/g	<0.075	<0.075	<0.075	6.5	6.5	6.5	6.5	6.5

Notes

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Result	Analytical result exceeds CSR AL, RL _{LD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards



Table 4
Soil Analytical Results - Metals
Sheet 1 of 2

EXP Sample ID			AH26-01@2'	AH26-01@4.5'	AH26-01@9'	AH26-01@14.5'	AH26-01@16'	AH26-02@2'	AH26-02@4'	AH26-02@9'	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	BC CSR CL Standards	BC CSR IL Standards
Laboratory Sample ID			VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005	VA26A1045-006	VA26A1045-007	VA26A1045-008					
Date Sampled (dd-mm-yyyy)			15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026					
Sample Depth (m)			0.6	1.37	2.7	4.4	4.87	0.6	1.2	2.7					
Parameter	RDL	Units													
pH	0.10	pH units	6.09	6.29	7.66	7.94	8.12	6.20	7.46	7.75	NS	NS	NS	NS	NS
Aluminum (Al)	50	µg/g	13200	14300	56200	23200	11500	13300	41300	25200	40000	40000	40000	250000	250000
Antimony (Sb)	0.10	µg/g	0.23	0.11	0.53	0.45	0.11	0.48	0.44	0.38	20	20	40	40	40
Arsenic (As)	0.10	µg/g	2.24	1.77	12.8	8.37	1.88	3.98	14.8	7.48	10	10	10	10	10
Barium (Ba)	0.50	µg/g	72.5	36.8	250	105	49.5	101	228	123	350	350	350	350	350
Beryllium (Be)(1)	0.10	µg/g	0.28	0.23	0.69	0.38	0.14	0.32	0.45	0.42	1 - 85	1 - 85	1 - 150	1 - 350	1 - 350
Bismuth (Bi)	0.20	µg/g	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	NS	NS	NS
Boron (B)	5.0	µg/g	<5.0	<5.0	6.3	<5.0	<5.0	<5.0	<5.0	<5.0	8500	8500	15000	50000	> 1000 mg/g
Boron, hot water soluble	0.10	µg/g	0.29						<0.10		2	NS	NS	NS	NS
Cadmium (Cd)(1)	0.020	µg/g	0.180	0.056	0.098	0.113	0.029	0.270	0.076	0.070	1 - 10	1 - 20	1 - 40	1 - 50 (F) OR 1 - 70 (M)	1 - 50 (F) OR 1 - 70 (M)
Calcium (Ca)	50	µg/g	7610	2730	8010	6590	4410	9340	6230	7590	NS	NS	NS	NS	NS
Chromium (Cr)	0.50	µg/g	15.1	13.2	66.2	41.0	12.1	27.9	49.5	42.4	100	100	250	250	250
Chromium (VI) (Cr VI)	0.10	µg/g	<0.10	-	-	-	-	-	1.13	-	60	60	60	60	60
Cobalt (Co)	0.10	µg/g	4.20	3.03	26.0	19.2	4.78	6.83	17.9	14.9	25	25	25	25	25
Copper (Cu)(1)	0.50	µg/g	15.9	7.14	70.7	45.1	11.4	19.3	29.9	41.5	75 - 150	75 - 150	75 - 250	75 - 250	75 - 250
Iron (Fe)	50	µg/g	10200	7780	55600	29600	14900	15300	41600	30900	35000	35000	35000	150000	150000
Lead (Pb)	0.50	µg/g	10.5	3.51	12.0	4.94	2.14	20.8	10.1	5.16	120	120	120	120 - 150	120 - 1000 (F, M)
Lithium (Li)	2.0	µg/g	5.0	6.4	29.1	12.2	4.1	6.5	23.1	12.6	30	30	65	450	450
Magnesium (Mg)	20	µg/g	3520	3200	19200	9420	4010	5740	12200	9680	NS	NS	NS	NS	NS
Manganese (Mn)	1.0	µg/g	214	132	731	745	234	348	486	625	2000	2000	2000	2000	2000
Mercury (Hg)	0.0500	µg/g	0.0811	<0.0500	<0.0500	<0.0500	<0.0500	0.105	<0.0500	<0.0500	0.6	10	25	75	75
Molybdenum (Mo)	0.10	µg/g	1.13	0.65	0.88	0.69	0.18	1.17	0.73	0.47	3	3	3	15	15
Nickel (Ni)(1)	0.50	µg/g	12.4	8.60	55.0	35.0	7.59	24.2	35.9	34.5	70 - 150	70 - 150	70 - 250	70 - 250	70 - 250 (F, M)
Phosphorus (P)	50	µg/g	467	289	343	621	366	639	221	549	NS	NS	NS	NS	NS
Potassium (K)	100	µg/g	620	420	4610	1930	820	630	2920	2340	NS	NS	NS	NS	NS
Selenium (Se)	0.20	µg/g	0.68	0.29	<0.20	<0.20	<0.20	0.64	<0.20	<0.20	1	1	1	1	1
Silver (Ag)	0.10	µg/g	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	20	20	40	40	40
Sodium (Na)	50	µg/g	480	179	449	359	379	298	305	433	NS	NS	NS	NS	NS
Strontium (Sr)	0.50	µg/g	59.8	21.6	105	50.2	35.5	74.8	61.7	52.0	9500	9500	20000	150000	150000
Sulfur (S)	1000	µg/g	1200	<1000	<1000	<1000	<1000	<1000	<1000	<1000	2000	NS	NS	NS	NS
Thallium (Tl)	0.050	µg/g	<0.050	<0.050	0.213	0.109	<0.050	0.052	0.111	0.116	2	9	25	25	25
Tin (Sn)	2.0	µg/g	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5	50	300	300	300
Titanium (Ti)	1.0	µg/g	507	632	1820	1350	779	624	1590	1580	NS	NS	NS	NS	NS
Tungsten (W)	0.50	µg/g	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	15	15	25	200	200
Uranium (U)	0.050	µg/g	0.467	0.339	0.920	1.21	0.388	0.457	0.687	0.938	15	15	15	30	30
Vanadium (V)	0.20	µg/g	36.2	32.5	123	78.8	41.5	43.7	114	80.5	100	100	100	100	100
Zinc (Zn)(1)	2.0	µg/g	31.9	32.8	136	67.5	26.9	60.5	83.7	68.5	150 - 200	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)
Zirconium (Zr)	1.0	µg/g	2.0	<1.0	5.7	6.4	3.3	2.2	5.5	4.8	NS	NS	NS	NS	NS

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to B.C. Reg. 171/2025, October 27, 2025) (Site specific factors includes - Intake of contaminated soil, Groundwater used for drinking water, Toxicity to soil invertebrates and plants, Groundwater flow to surface water used by aquatic life (F-Freshwater, M-Marine), Groundwater used for livestock and irrigation).
Standards	Schedule 3.1 Numerical Soil Standards
AL	Agricultural Land Use
RL _{LD}	Low Density Residential Land Use
RL _{HD}	High Density Residential Land Use
CL	Commercial Land Use
IL	Industrial Land Use
F	Freshwater
M	Marine
NS	No standard applies
RDL	Reported detection limit
RPD	Relative percent difference
-	Not analyzed or RPD not calculated
(1)	Standard is pH dependent

Result	Analytical result exceeds CSR AL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards



Table 4
Soil Analytical Results - Metals
Sheet 2 of 2

EXP Sample ID			AH26-02@14'	DUP-A	RPD	AH26-03@2'	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-B	RPD	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	BC CSR CL Standards	BC CSR IL Standards
Laboratory Sample ID			VA26A1045-009	VA26A1045-014		VA26A1045-010	VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-015						
Date Sampled (dd-mmm-yyyy)			15-Jan-2026	15-Jan-2026		15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026						
Sample Location			4.3	4.3		0.6	1.2	2.7	4.3	4.3						
Parameter	RDL	Units		Duplicate of AH26-02@14'						Duplicate of AH26-03@14'						
pH	0.10	pH units	7.83	7.90	0.9%	6.41	7.46	7.68	7.92	8.29	4.6%	NS	NS	NS	NS	NS
Aluminum (Al)	50	µg/g	14000	14000	0.0%	27100	19500	14000	9230	9560	3.5%	40000	40000	40000	250000	250000
Antimony (Sb)	0.10	µg/g	0.16	0.17	6.1%	0.29	0.22	0.14	<0.10	0.11	-	20	20	40	40	40
Arsenic (As)	0.10	µg/g	2.77	3.27	16.6%	4.23	8.44	3.63	1.69	1.59	6.1%	10	10	10	10	10
Barium (Ba)	0.50	µg/g	64.4	62.8	2.5%	90.8	74.8	61.2	47.4	38.7	20.2%	350	350	350	350	350
Beryllium (Be)(1)	0.10	µg/g	0.16	0.16	-	0.34	0.25	0.16	0.11	0.11	-	1 - 85	1 - 85	1 - 150	1 - 350	1 - 350
Bismuth (Bi)	0.20	µg/g	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	-	NS	NS	NS	NS	NS
Boron (B)	5.0	µg/g	<5.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	8500	8500	15000	50000	> 1000 mg/g
Boron, hot water soluble	0.10	µg/g	-	-	-	-	<0.10	-	-	-	-	2	NS	NS	NS	NS
Cadmium (Cd)(1)	0.020	µg/g	0.045	0.043	-	0.150	0.032	0.041	0.032	0.032	-	1 - 10	1 - 20	1 - 40	1 - 50 (F) OR 1 - 70 (M)	1 - 50 (F) OR 1 - 70 (M)
Calcium (Ca)	50	µg/g	5560	4840	13.8%	4310	4190	4070	3930	4480	13.1%	NS	NS	NS	NS	NS
Chromium (Cr)	0.50	µg/g	16.1	19.7	20.1%	25.1	22.5	13.5	10.1	11.7	14.7%	100	100	250	250	250
Chromium (VI) (Cr VI)	0.10	µg/g	-	-	-	-	0.30	-	-	-	-	60	60	60	60	60
Cobalt (Co)	0.10	µg/g	5.87	7.06	18.4%	7.12	7.54	5.92	4.42	4.31	2.5%	25	25	25	25	25
Copper (Cu)(1)	0.50	µg/g	12.8	16.6	25.9%	11.1	16.4	13.0	9.67	9.39	2.9%	75 - 150	75 - 150	75 - 250	75 - 250	75 - 250
Iron (Fe)	50	µg/g	17200	18600	7.8%	17100	21300	17000	13500	13600	0.7%	35000	35000	35000	150000	150000
Lead (Pb)	0.50	µg/g	2.44	2.68	9.4%	10.2	3.19	2.32	1.72	1.67	2.9%	120	120	120	120 - 150	120 - 1000 (F, M)
Lithium (Li)	2.0	µg/g	5.9	6.5	-	12.0	8.3	6.3	4.1	3.7	10.3%	30	30	65	450	450
Magnesium (Mg)	20	µg/g	4740	5210	9.4%	6170	5380	5030	3810	3380	12.0%	NS	NS	NS	NS	NS
Manganese (Mn)	1.0	µg/g	266	284	6.5%	281	310	310	227	219	3.6%	2000	2000	2000	2000	2000
Mercury (Hg)	0.0500	µg/g	<0.0500	<0.0500	-	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	-	0.6	10	25	75	75
Molybdenum (Mo)	0.10	µg/g	0.17	0.20	-	0.46	0.34	0.17	0.14	0.12	15.4%	3	3	3	15	15
Nickel (Ni)(1)	0.50	µg/g	10.3	13.2	24.7%	16.5	14.7	8.92	7.29	6.81	6.8%	70 - 150	70 - 150	70 - 250	70 - 250	70 - 250 (F, M)
Phosphorus (P)	50	µg/g	372	389	4.5%	399	347	375	329	369	11.5%	NS	NS	NS	NS	NS
Potassium (K)	100	µg/g	1130	1020	10.2%	770	1030	960	930	730	24.1%	NS	NS	NS	NS	NS
Selenium (Se)	0.20	µg/g	<0.20	<0.20	-	0.39	<0.20	<0.20	<0.20	<0.20	-	1	1	1	1	1
Silver (Ag)	0.10	µg/g	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	-	20	20	40	40	40
Sodium (Na)	50	µg/g	501	436	13.9%	244	320	318	366	470	24.9%	NS	NS	NS	NS	NS
Strontium (Sr)	0.50	µg/g	43.6	35.7	19.9%	40.0	41.1	34.0	30.0	36.2	18.7%	9500	9500	20000	150000	150000
Sulfur (S)	1000	µg/g	<1000	<1000	-	<1000	<1000	<1000	<1000	<1000	-	2000	NS	NS	NS	NS
Thallium (Tl)	0.050	µg/g	<0.050	<0.050	-	0.054	0.054	<0.050	<0.050	<0.050	-	2	9	25	25	25
Tin (Sn)	2.0	µg/g	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	-	5	50	300	300	300
Titanium (Ti)	1.0	µg/g	925	890	3.9%	1090	1120	876	653	760	15.1%	NS	NS	NS	NS	NS
Tungsten (W)	0.50	µg/g	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	15	15	25	200	200
Uranium (U)	0.050	µg/g	0.348	0.387	10.6%	0.454	0.566	0.358	0.228	0.279	20.1%	15	15	15	30	30
Vanadium (V)	0.20	µg/g	50.8	54.4	6.8%	55.0	66.6	50.4	37.3	39.5	5.7%	100	100	100	100	100
Zinc (Zn)(1)	2.0	µg/g	30.4	34.3	12.1%	76.9	35.0	30.6	25.9	23.4	10.1%	150 - 200	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)	150 - 450 (F) OR 150 - 200 (M)
Zirconium (Zr)	1.0	µg/g	3.1	3.3	-	1.7	3.1	2.5	2.8	3.1	-	NS	NS	NS	NS	NS

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to B.C. Reg. 171/2025, October 27, 2025) (Site specific factors includes - Intake of contaminated soil, Groundwater used for drinking water, Toxicity to soil invertebrates and plants, Groundwater flow to surface water used by aquatic life (F-Freshwater, M-Marine), Groundwater used for livestock and irrigation).
Standards	Schedule 3.1 Numerical Soil Standards
AL	Agricultural Land Use
RL _{LD}	Low Density Residential Land Use
RL _{HD}	High Density Residential Land Use
CL	Commercial Land Use
IL	Industrial Land Use
F	Freshwater
M	Marine
NS	No standard applies
RDL	Reported detection limit
RPD	Relative percent difference
-	Not analyzed or RPD not calculated
(1)	Standard is pH dependent
(2)	Regional estimate for background concentrations in soil for inorganic substances for Region 2 Lower Mainland as per BCMOECCS Protocol 4

Result	Analytical result exceeds CSR AL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards



Table 5
Soil Analytical Results - Ions by Saturated Paste
Sheet 1 of 1

EXP Sample ID			AH26-01@2'	AH26-01@4.5'	AH26-01@16'	AH26-02@2'	AH26-02@9'	AH26-02@14'	AH26-03@2'	AH26-03@9'	AH26-03@14'	BC CSR AL Standards	BC CSR RL _{LD} Standards	BC CSR RL _{HD} Standards	CSR CL Standards	CSR IL Standards
Laboratory Sample ID			VA26A1045-001	VA26A1045-002	VA26A1045-005	VA26A1045-006	VA26A1045-008	VA26A1045-009	VA26A1045-010	VA26A1045-012	VA26A1045-013					
Date Sampled (dd-mmm-yyyy)			15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026	15-Jan-2026					
Sample Depth (m)			0.6	1.4	4.9	0.6	2.7	4.3	0.6	2.7	4.3					
Parameter	RDL	Units														
Chloride Ion (Cl-)	1.0	µg/g	39.4	14.4	3.0	33.0	19.2	7.8	19.6	11.3	7.4	40	40, 100 (1)	40, 100 (1)	100	100
Sodium Ion (Na+)	1.00	µg/g	37.4	14.0	2.38	25.1	5.69	2.42	11.8	7.45	3.02	200	200	1000	1000	1000

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to B.C. Reg. 171/2025, October 27, 2025) (Site specific factors includes - Intake of contaminated soil, Groundwater used for drinking water, Toxicity to soil invertebrates and plants, Livestock ingesting soil and fodder, Major microbial functional impairment, Groundwater flow to surface water used by aquatic life (F-Freshwater, M-Marine), Groundwater used for livestock and irrigation).
Standards	Schedule 3.1 Numerical Soil Standards
RDL	Reported detection limit
RPD	Relative percent difference
AL	Agricultural Land Use
RL _{LD}	Low Density Residential Land Use
RL _{HD}	High Density Residential Land Use
CL	Commercial Land Use
IL	Industrial Land Use
(1)	Standard without the application of the site specific factor groundwater used for livestock watering and irrigation
µg/g	Micrograms per gram

Result	Analytical result exceeds CSR AL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} and RL _{HD} Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} and CL Standards
Result	Analytical result exceeds CSR AL, RL _{LD} , RL _{HD} , CL and IL Standards



Table 6
Groundwater Analytical Results - Extractable Petroleum Hydrocarbons (EPHs)
LEPHw, HEPHw, and EPHw
Sheet 1 of 1

EXP Sample ID			AH26-01	DUP-1	RPD	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic Guidelines (ug/L)	BC WQG Marine Aquatic Guidelines (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-004		VA26A1215-002	VA26A1215-003						
Date Sampled (dd-mmm-yyyy)			19-Jan-2026	19-Jan-2026		19-Jan-2026	19-Jan-2026						
Parameter	RDL	Units		Duplicate of AH26-01									
EPH _{w10-19}	250	µg/L	<250	<250	-	<250	<250	5000	5000	NG	NG	NG	NG
EPH _{w19-32}	250	µg/L	<250	<250	-	<250	<250	NS	NS	NG	NG	NG	NG
LEPHw	250	µg/L	<250	<250	-	<250	<250	500	NS	NG	NG	NG	NG
HEPHw	250	µg/L	<250	<250	-	<250	<250	NS	NS	NG	NG	NG	NG

Notes	
CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025
EPHw	Extractable Petroleum Hydrocarbons in Water
TEH	Total Extractable Hydrocarbons
HEPHw	Heavy Extractable Petroleum Hydrocarbons in Water
LEPHw	Light Extractable Petroleum Hydrocarbons in Water
µg/L	Micrograms per litre
AW _F	Freshwater Aquatic Life Water Use Standards
DW	Drinking Water Use Standards
NS	No standard
RDL	Reported detection limit
RPD	Relative percentage difference
-	RPD not calculated

Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds



Table 7
Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons (PAHs)
Sheet 1 of 1

EXP Sample ID			AH26-01	DUP-1	RPD	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic (Long-Term) (ug/L)	BC WQG Freshwater Aquatic (Short-Term) (ug/L)	BC WQG Marine Aquatic (Long-Term) (ug/L)	BC WQG Marine Aquatic (Short-Term) (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-004		VA26A1215-002	VA26A1215-003								
Date Sampled (dd-mmm-yyyy)			19-Jan-2026	19-Jan-2026		19-Jan-2026	19-Jan-2026								
Parameter	RDL	Units		Duplicate of AH26-01											
Acenaphthene	0.010	µg/L	3.91	3.95	1.0%	0.011	<0.010	60	250	6	NG	6	NG	50 (3)	50 (3)
Acenaphthylene	0.010	µg/L	0.113	0.112	0.9%	<0.010	<0.010	NS	NS	NG	NG	NG	NG		
Acridine	0.010	µg/L	0.081	0.077	5.1%	<0.010	<0.010	0.5	NS	0.05 (1), 3 (2)	NG	NG	NG		
Anthracene	0.010	µg/L	1.56	1.75	11.5%	<0.010	<0.010	1	1000	0.1 (1), 4 (2)	NG	NG	NG		
Benz(a)anthracene	0.010	µg/L	2.56	2.21	14.7%	0.011	0.010	1	0.07	0.1 (1, 2)	NG	NG	NG		
Benzo(a)pyrene	0.0050	µg/L	2.82	2.49	12.4%	0.0117	0.0097	0.1	0.01	0.01	NG	0.01	NG		
Benzo(b&j)fluoranthene	0.010	µg/L	2.27	2.00	12.6%	<0.010	<0.010	NS	0.07	NG	NG	NG	NG		
Benzo(b+j+k)fluoranthene	0.015	µg/L	3.29	2.88	13.3%	<0.015	<0.015	NS	NS	NG	NG	NG	NG		
Benzo(e)pyrene	0.010	µg/L	1.20	1.06	12.4%	<0.010	<0.010	NS	NS	NG	NG	NG	NG		
Benzo(g,h,i)perylene	0.010	µg/L	1.69	1.47	13.9%	<0.010	<0.010	NS	NS	NG	NG	NG	NG		
Benzo(k)fluoranthene	0.010	µg/L	1.02	0.885	14.2%	<0.010	<0.010	NS	NS	NG	NG	NG	NG		
Chrysene	0.010	µg/L	2.62	2.33	11.7%	<0.010	<0.010	1	7	NG	NG	0.1	NG		
Dibenz(a,h)anthracene	0.0050	µg/L	0.418	0.366	13.3%	<0.0050	<0.0050	NS	0.01	NG	NG	NG	NG		
7,12-Dimethylbenz(a)anthracene	0.010	µg/L	<0.023	<0.018	-	<0.010	<0.010	NS	0.02	NG	NG	NG	NG		
Fluoranthene	0.010	µg/L	5.95	5.22	13.1%	0.021	0.019	2	150	0.2 (1), 4 (2)	NG	NG	NG		
Fluorene	0.010	µg/L	2.23	2.24	0.4%	<0.010	<0.010	120	150	12	NG	12	NG		
Indeno(1,2,3-c,d)pyrene	0.010	µg/L	2.04	1.80	12.5%	<0.010	<0.010	NS	NS	NG	NG	NG	NG		
3-Methylcholanthrene	0.010	µg/L	<0.012	<0.010	-	<0.010	<0.010	NS	0.02	NG	NG	NG	NG		
1+2-Methylnaphthalene	0.015	µg/L	4.40	4.50	2.2%	<0.015	<0.015	NS	NS	NG	NG	NG	NG		
1-Methylnaphthalene	0.010	µg/L	2.01	2.06	2.5%	<0.010	<0.010	NS	5.5	NG	NG	NG	NG		
2-Methylnaphthalene	0.010	µg/L	2.39	2.44	2.1%	<0.010	<0.010	NS	15	NG	NG	NG	NG		
Naphthalene	0.050	µg/L	17.1	17.3	1.2%	<0.050	<0.050	10	80	1	1	1	NG		
4-Nitropyrene	0.10	µg/L	<0.10	<0.10	-	<0.10	<0.10	NS	0.15	NG	NG	NG	NG		
Phenanthrene	0.020	µg/L	5.60	5.27	6.1%	<0.020	<0.020	3	NS	0.3	NG	NG	NG		
Pyrene	0.010	µg/L	5.35	4.66	13.8%	0.019	0.018	0.2	100	0.02 (1)	NG	NG	NG		
Quinoline	0.050	µg/L	0.731	0.714	2.4%	<0.050	<0.050	34	0.05	50†	NG	NG	NG		
PAHs, total (EPA 16)	0.065	µg/L	57.3	54.1	5.7%	0.074	<0.065	NS	NS	NG	NG	NG	NG		
PAHs, total (P2MMP)	0.040	µg/L	37.3	33.8	9.8%	0.063	0.057	NS	NS	NG	NG	NG	NG		

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007
µg/L	Micrograms per litre
AW _F	Freshwater Aquatic Life Water Use Standards
DW	Drinking Water Use Standards
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025
RDL	Reported detection limit
RPD	Relative percent difference
-	RPD not calculated
(1)	For use under phototoxic conditions.
(2)	For use under non-phototoxic conditions.
(3)	By Law is for Total Polycyclic Aromatic Hydrocarbons
Result	Detectable concentration
Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds



Table 8
Groundwater Analytical Results - Volatile Organic Compounds (VOCs)
Sheet 1 of 1

EXP Sample ID			AH26-01	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic (Long-Term) (ug/L)	BC WQG Freshwater Aquatic (Short-Term) (ug/L)	BC WQG Marine Aquatic (Long-Term) (ug/L)	BC WQG Marine Aquatic (Short-Term) (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-002	VA26A1215-003								
Date Sampled (dd-mmm-yyyy)			19-Jan-2026	19-Jan-2026	19-Jan-2026								
Parameter	RDL	Units											
VPHw	100	µg/L	<100	<100	<100	1500	NS	NG	NG	NG	NG	NG	NG
VHw6-10	100	µg/L	<100	<100	<100	15000	15000	NG	NG	NG	NG	NG	NG
Benzene	0.50	µg/L	<0.50	<0.50	<0.50	400	5	40*	NG	110*	NG	1000 (1), 100 (2)	1000 (1), 100 (2)
Bromodichloromethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	100	NG	NG	NG	NG	NG	NG
Bromoform	1.0	µg/L	<1.0	<1.0	<1.0	NS	100	NG	NG	NG	NG	NG	NG
1,3-Butadiene	0.20	µg/L	<0.20	<0.20	<0.20	NS	1	NG	NG	NG	NG	NG	NG
Carbon Tetrachloride	1.0	µg/L	<1.0	<1.0	<1.0	130	2	NG	NG	NG	NG	NG	NG
Chlorobenzene	1.0	µg/L	<1.0	<1.0	<1.0	13	80	NG	NG	NG	NG	NG	NG
Chloroethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Chloroform	1.0	µg/L	<1.0	<1.0	<1.0	20	100	1.8†	NG	NG	NG	NG	NG
Chloromethane	5.0	µg/L	<5.0	<5.0	<5.0	NS	NS	NG	NG	NG	NG	NG	NG
p-cymene	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
n-decane	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Dibromochloromethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	100	NG	NG	NG	NG	NG	NG
1,2-Dibromoethane	0.20	µg/L	<0.20	<0.20	<0.20	NS	0.5	NG	NG	NG	NG	NG	NG
1,2-Dichlorobenzene	0.50	µg/L	<0.50	<0.50	<0.50	7	200	0.7†	NG	42†	NG	NG	NG
1,3-Dichlorobenzene	1.0	µg/L	<1.0	<1.0	<1.0	1500	NS	150†	NG	NG	NG	NG	NG
1,4-Dichlorobenzene	1.0	µg/L	<1.0	<1.0	<1.0	260	5	26†	NG	NG	NG	NG	NG
1,1-Dichloroethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	30	NG	NG	NG	NG	NG	NG
1,2-Dichloroethane	1.0	µg/L	<1.0	<1.0	<1.0	1000	5	100†	NG	NG	NG	NG	NG
1,1-Dichloroethylene	1.0	µg/L	<1.0	<1.0	<1.0	NS	14	NG	NG	NG	NG	NG	NG
cis-1,2-Dichloroethylene	1.0	µg/L	<1.0	<1.0	<1.0	NS	8	NG	NG	NG	NG	NG	NG
trans-1,2-Dichloroethylene	1.0	µg/L	<1.0	<1.0	<1.0	NS	80	NG	NG	NG	NG	NG	NG
Dichloromethane	1.0	µg/L	<1.0	<1.0	<1.0	980	50	NG	NG	NG	NG	NG	NG
1,2-Dichloropropane	1.0	µg/L	<1.0	<1.0	<1.0	NS	4.5	NG	NG	NG	NG	NG	NG
1,3-Dichloropropane (cis & trans)	1.5	µg/L	<1.5	<1.5	<1.5	NS	1.5	NG	NG	NG	NG	NG	NG
cis-1,3-Dichloropropylene	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
trans-1,3-Dichloropropylene	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Ethylbenzene	0.50	µg/L	<0.50	<0.50	<0.50	2000	140	200*	NG	250*	NG	1000 (1)	1000 (1)
n-hexane	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Isopropylbenzene	1.0	µg/L	<1.0	<1.0	<1.0	NS	400	NG	NG	NG	NG	NG	NG
Methylcyclohexane	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Methyl t-butyl ether (MTBE)	0.50	µg/L	<0.50	<0.50	<0.50	34000	95	NG	3400	NG	440	NG	NG
n-propylbenzene	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
Styrene	0.50	µg/L	<0.50	<0.50	<0.50	720	800	72†	NG	NG	NG	NG	NG
1,1,1,2-Tetrachloroethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	6	NG	NG	NG	NG	NG	NG
1,1,2,2-Tetrachloroethane	0.20	µg/L	<0.20	<0.20	<0.20	NS	0.8	NG	NG	NG	NG	NG	NG
Tetrachloroethylene	1.0	µg/L	<1.0	<1.0	<1.0	1100	30	110†	NG	NG	NG	NG	NG
Toluene	0.40	µg/L	<0.40	<0.40	<0.40	5	60	0.5	NG	NG	NG	1000 (1)	1000 (1)
1,1,1-Trichloroethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	8000	NG	NG	NG	NG	NG	NG
1,1,2-Trichloroethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	3	NG	NG	NG	NG	NG	NG
Trichloroethylene	1.0	µg/L	<1.0	<1.0	<1.0	200	5	NG	NG	NG	NG	NG	NG
Trichlorofluoromethane	1.0	µg/L	<1.0	<1.0	<1.0	NS	1000	NG	NG	NG	NG	NG	NG
1,2,4-Trimethylbenzene	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	NG	NG
1,3,5-Trimethylbenzene	1.0	µg/L	<1.0	<1.0	<1.0	NS	40	NG	NG	NG	NG	NG	NG
Vinyl Chloride	0.40	µg/L	<0.40	<0.40	<0.40	NS	2	625†	NG	NG	NG	NG	NG
meta- & para-Xylene	0.40	µg/L	<0.40	<0.40	<0.40	NS	NS	NG	NG	NG	NG	NG	NG
ortho-Xylene	0.30	µg/L	<0.30	<0.30	<0.30	NS	NS	NG	NG	NG	NG	NG	NG
Xylenes	0.50	µg/L	<0.50	<0.50	<0.50	300	90	30	NG	NG	NG	1000 (1)	1000 (1)
BTEX, total	1.0	µg/L	<1.0	<1.0	<1.0	NS	NS	NG	NG	NG	NG	1000	1000

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007
µg/L	Micrograms per litre
AW _F	Freshwater Aquatic Life Water Use Standards
DW	Drinking Water Use Standards
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025
NS	No standard
RDL	Reported detection limit
(1)	By Law is for total BTEX which includes: benzene, ethylbenzene, toluene and xylenes
(2)	By Law is for Benzene only
†	BC Working Water Quality Guideline
*	BC Interim Water Quality Guideline

Result	Detectable concentration
Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds



Table 9
Groundwater Analytical Results - Dissolved Metals
Sheet 1 of 1

EXP Sample ID			AH26-01	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic (Long-Term)-ug/L	BC WQG Freshwater Aquatic (Short-Term) (ug/L)	BC WQG Marine Aquatic (Long-Term) ug/L	BC WQG Marine Aquatic (Short-Term) ug/L	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-002	VA26A1215-003								
Date Sampled (dd-mmm-yyyy)			19-Jan-2026	19-Jan-2026	19-Jan-2026								
Parameter	RDL	Units											
Hardness (as CaCO3) (µg/L)	0.50	mg/L	80.3	187	140	NS	NS	NG	NG	NG	NG	NG	NG
Aluminum (Al)-Dissolved	1.0	µg/L	8.5	5.6	3.9	NS	9500	NG	NG	NG	NG	NG	NG
Antimony (Sb)-Dissolved	0.10	µg/L	0.13	0.12	<0.10	90	6	NG	NG	NG	NG	NG	NG
Arsenic (As)-Dissolved	0.10	µg/L	1.95	1.18	0.90	50	10	NG	NG	NG	NG	NG	NG
Barium (Ba)-Dissolved	0.10	µg/L	6.99	25.7	9.29	10000	1000	NG	NG	NG	NG	NG	NG
Beryllium (Be)-Dissolved	0.020	µg/L	<0.020	<0.020	<0.020	1.5	8	NG	NG	NG	NG	NG	NG
Bismuth (Bi)-Dissolved	0.050	µg/L	<0.050	<0.050	<0.050	NS	NS	NG	NG	NG	NG	NG	NG
Boron (B)-Dissolved	10	µg/L	11	16	18	12000	5000	NG	NG	NG	NG	NG	NG
Cadmium (Cd)-Dissolved	0.0050	µg/L	0.0090	0.0141	0.0085	0.5 - 4 (1)	5	0.18 - 0.335 (6)	0.469 - 1.12 (6)	NG	NG	NG	NG
Calcium (Ca)-Dissolved (µg/L)	50	µg/L	19100	43600	33700	NS	NS	NG	NG	NG	NG	NG	NG
Cesium (Cs)-Dissolved	0.010	µg/L	<0.010	<0.010	<0.010	NS	NS	NG	NG	NG	NG	NG	NG
Chromium (Cr)-Dissolved	0.50	µg/L	<0.50	<0.50	<0.50	90 (2)	6000 (2), 50 (3)	NG	NG	NG	NG	NG	NG
Cobalt (Co)-Dissolved	0.10	µg/L	0.41	0.39	0.48	40	1	0.466 - 0.661 (6)	NG	NG	NG	NG	NG
Copper (Cu)-Dissolved	0.20	µg/L	0.39	<0.20	0.20	20 - 90 (1)	1500	0.2 (G*)	0.2 (G*)	NG	NG	NG	NG
Iron (Fe)-Dissolved	10	µg/L	10	213	<10	NS	NA (4)	NG	350	NG	NG	NG	NG
Lead (Pb)-Dissolved	0.050	µg/L	<0.050	<0.050	<0.050	40 - 160 (1)	10	0.423 - 0.508 (G**)	NG	NG	NG	NG	NG
Lithium (Li)-Dissolved	1.0	µg/L	<1.0	1.1	1.0	NS	8	NG	NG	NG	NG	NG	NG
Magnesium (Mg)-Dissolved (µg/L)	5.0	µg/L	7920	19000	13600	NS	NS	NG	NG	NG	NG	NG	NG
Manganese (Mn)-Dissolved	0.10	µg/L	165	306	229	NS	NA (4)	NG	NG	NG	NG	NG	NG
Molybdenum (Mo)-Dissolved	0.050	µg/L	2.44	0.910	2.53	10000	250	NG	NG	NG	NG	NG	NG
Nickel (Ni)-Dissolved	0.50	µg/L	<0.50	<0.50	<0.50	250 - 1500 (1)	80	1.7 - 2.8 (7)	30.8 - 54.8 (7)	NG	NG	NG	NG
Phosphorus (P)-Dissolved	50	µg/L	<50	<50	<50	NS	NS	NG	NG	NG	NG	NG	NG
Potassium (K)-Dissolved	50	µg/L	2120	4010	3560	NS	NS	NG	NG	NG	NG	NG	NG
Rubidium (Rb)-Dissolved	0.20	µg/L	0.41	0.53	0.33	NS	NS	NG	NG	NG	NG	NG	NG
Selenium (Se)-Dissolved	0.050	µg/L	0.376	0.118	0.105	20	10	NG	NG	NG	NG	NG	NG
Silicon (Si)-Dissolved	50	µg/L	15200	17000	13700	NS	NS	NG	NG	NG	NG	NG	NG
Silver (Ag)-Dissolved	0.010	µg/L	<0.010	<0.010	<0.010	0.5 - 15 (1)	20	NG	NG	NG	NG	NG	NG
Sodium (Na)-Dissolved (µg/L)	50	µg/L	11800	14200	16100	NS	200000 (5)	NG	NG	NG	NG	NG	NG
Strontium (Sr)-Dissolved	0.20	µg/L	106	205	151	NS	2500	1250†	NG	NG	NG	NG	NG
Sulfur (S)-Dissolved	500	µg/L	4080	4420	4520	NS	NS	NG	NG	NG	NG	NG	NG
Tellurium (Te)-Dissolved	0.20	µg/L	<0.20	<0.20	<0.20	NS	NS	NG	NG	NG	NG	NG	NG
Thallium (Tl)-Dissolved	0.010	µg/L	<0.010	<0.010	<0.010	3	NS	NG	NG	NG	NG	NG	NG
Thorium (Th)-Dissolved	0.10	µg/L	<0.10	<0.10	<0.10	NS	NS	NG	NG	NG	NG	NG	NG
Tin (Sn)-Dissolved	0.10	µg/L	0.15	<0.10	0.25	NS	2500	NG	NG	NG	NG	NG	NG
Titanium (Ti)-Dissolved	0.30	µg/L	<0.30	<0.30	<0.30	1000	NS	NG	NG	NG	NG	NG	NG
Tungsten (W)-Dissolved	0.10	µg/L	<0.10	<0.10	<0.10	NS	3	NG	NG	NG	NG	NG	NG
Uranium (U)-Dissolved	0.010	µg/L	<0.010	0.072	0.234	85	20	NG	NG	NG	NG	NG	NG
Vanadium (V)-Dissolved	0.50	µg/L	5.30	1.82	3.54	NS	20	NG	NG	NG	NG	NG	NG
Zinc (Zn)-Dissolved	1.0	µg/L	30.4	2.5	8.2	75 - 2400 (1)	3000	6.37 - 9.91 (G***)	24.5 - 49.5 (G***)	NG	NG	NG	NG
Zirconium (Zr)-Dissolved	0.30	µg/L	<0.30	<0.30	<0.30	NS	NS	NG	NG	NG	NG	NG	NG

Notes		
CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)	
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)	
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.	
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007	
µg/L	Micrograms per litre	
AW _F	Freshwater Aquatic Life Water Use Standards	
DW	Drinking Water Use Standards	
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025	
NS	No standard	
NG	No guideline	
RDL	Reported detection limit	
(1)	Standard is hardness dependent	
(2)	Standard is for chromium trivalent	
(3)	Standard is for chromium hexavalent	
(4)	Iron and manganese standards do not apply to the Site as per notes 32, 33 (iron) and 35, 36(Mn) of CSR Schedule 3.2	
(5)	Standard is for sodium ion	
(6)	Guideline is hardness dependent	
(7)	Nickel guideline calculated using Hardness 100 mg/L and 200 mg/L, pH 7 and 7.5, DOC 0.03 mg/L, Temp 4°C.	
G*	Copper - Guideline dependent on sample specific parameters, Hardness 140 - 190 mg/L, pH 7 - 7.5 and DOC 0.05 mg/L	
G**	Lead - Guideline dependent on sample specific parameters, Hardness 80 - 187 mg/L and DOC 0.05 mg/L	
G***	Zinc - The long-term chronic WQG is valid between hardness 23.4 and 399 mg/L, pH 6.5 and 8.13, and DOC 0.3 and 22.9 mg/L. For the water chemistry measurements that are outside the water chemistry ranges please refer to the B.C. Zinc Water Quality Guidelines - Freshwater Aquatic Life. The short-term acute WQG is valid between hardness 13.8 and 250.5 mg/L and DOC 0.3 and 17.3 mg/L. For the water chemistry measurements that are outside the water chemistry ranges please refer to the B.C. Zinc Water Quality Guidelines - Freshwater Aquatic Life.	
†	BC Working Water Quality Guideline	
Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards	
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds	
Result	Analytical result exceeds BC WQGs	
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds	



Table 10
Groundwater Analytical Results - Total Metals
Sheet 1 of 1

EXP Sample ID			AH26-01	DUP-1	RPD	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic (Long- Term) (ug/L)	BC WQG Freshwater Aquatic (Short- Term) (ug/L)	BC WQG Marine Aquatic (Long- Term) (ug/L)	BC WQG Marine Aquatic (Short- Term) (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-004		VA26A1215-002	VA26A1215-003								
Date Sampled (dd-mm-yyyy)			19-Jan-2026	19-Jan-2026		19-Jan-2026	19-Jan-2026								
Parameter	RDL	Units		Duplicate of AH26-01											
Hardness (as CaCO3), from total Ca/Mg	600	µg/L	82.0	81.0		176	150	NS	NS	NG	NG	NG	NG	NG	NG
Solids, total suspended [TSS]	3000	µg/L	60400	-		40400	362000	NS	NS	NG	NG	NG	NG	600000	600000
pH (field)	0.10	pH units	7.03	-		7.11	7.53	NS	NS	NG	NG	NG	NG	6.5 - 9	5.5 - 10.5
pH (lab)	0.10	pH units	7.06	-		7.50	7.62	NS	NS	NG	NG	NG	NG	6.5 - 9	5.5 - 10.5
Aluminum (Al)-Total	3.0	µg/L	3510	4000	13.0%	922	13900	NS	NS	12.9 - 20.3*	NG	NG	NG	50000	50000
Antimony (Sb)-Total	0.10	µg/L	0.17	0.17	-	0.15	0.16	NS	NS	74	250	NG	NG	NG	NG
Arsenic (As)-Total	0.10	µg/L	2.72	2.76	1.5%	1.55	3.71	NS	NS	5	NG	12.5	NG	1000	1000
Barium (Ba)-Total	0.10	µg/L	22.4	24.5	9.0%	32.1	87.6	NS	NS	1000†	NG	NG	NG	NG	NG
Beryllium (Be)-Total	0.020	µg/L	0.047	0.051	-	<0.020	0.164	NS	NS	0.13†	NG	100	NG	NG	NG
Bismuth (Bi)-Total	0.050	µg/L	<0.050	<0.050	-	<0.050	<0.050	NS	NS	NG	NG	NG	NG	NG	NG
Boron (B)-Total	10	µg/L	10	10	-	16	19	NS	NS	1200	NG	1200	NG	50000	50000
Cadmium (Cd)-Total	0.0050	µg/L	0.0280	0.0304	8.2%	0.0197	0.0537	NS	NS	NG	NG	0.12†	NG	200	200
Calcium (Ca)-Total	50	µg/L	19600	18800	4.2%	40500	35300	NS	NS	NG	NG	NG	NG	NG	NG
Cesium (Cs)-Total	0.010	µg/L	0.130	0.156	18.2%	0.041	0.321	NS	NS	NG	NG	NG	NG	NG	NG
Chromium (Cr)-Total**	0.50	µg/L	3.28	3.75	13.4%	0.97	8.19	NS	NS	2.5 (2), 8.9 (3)	NG	1.5 (2), 56 (3)	NG	4000	4000
Cobalt (Co)-Total	0.10	µg/L	1.39	1.52	8.9%	0.75		NS	NS	NG	NG	NG	NG	5000	5000
Copper (Cu)-Total	0.50	µg/L	4.87	5.34	9.2%	1.29	11.6	NS	NS	NG	NG	2 (5)	3 (5)	2000	2000
Iron (Fe)-Total	10	µg/L	2250	2470	9.3%	1120	8110	NS	NS	NG	1000	NG	NG	10000	10000
Lead (Pb)-Total	0.050	µg/L	2.61	2.84	8.4%	0.564	2.59	NS	NS	NG	NG	2 (8)	140 (8)	1000	1000
Lithium (Li)-Total	1.0	µg/L	1.6	1.7	-	1.4	4.8	NS	NS	NG	NG	NG	NG	NG	NG
Magnesium (Mg)-Total	5.0	µg/L	8020	8260	2.9%	18100	14900	NS	NS	NG	NG	NG	NG	NG	NG
Manganese (Mn)-Total	0.10	µg/L	198	205	3.5%	331	379	NS	NS	966 - 1380 (1)	1440 - 2480 (1)	100†	NG	5000	5000
Molybdenum (Mo)-Total	0.050	µg/L	2.53	2.66	5.0%	0.977	2.59	NS	NS	7600	46000	NG	NG	1000	1000
Nickel (Ni)-Total	0.50	µg/L	2.69	2.94	8.9%	1.17	6.29	NS	NS	NG	NG	8.3† (6)	NG	2000	2000
Phosphorus (P)-Total	50	µg/L	102	112	9.3%	73	254	NS	NS	15 (4)	NG	NG	NG	NG	NG
Potassium (K)-Total	50	µg/L	2460	2570	4.4%	4370	4940	NS	NS	NG	NG	NG	NG	NG	NG
Rubidium (Rb)-Total	0.20	µg/L	1.76	1.99	12.3%	0.86	5.06	NS	NS	NG	NG	NG	NG	NG	NG
Selenium (Se)-Total	0.050	µg/L	0.398	0.433	8.4%	0.149	0.110	NS	NS	2	NG	2	NG	1000	1000
Silicon (Si)-Total	100	µg/L	17900	19200	7.0%	17300	32500	NS	NS	NG	NG	NG	NG	NG	NG
Silver (Ag)-Total	0.010	µg/L	0.013	0.015	-	<0.010	0.015	NS	NS	0.12	NG	0.5	3.7	1000	1000
Sodium (Na)-Total	50	µg/L	11900	11900	0.0%	13900	17000	NS	NS	NG	NG	NG	NG	NG	NG
Strontium (Sr)-Total	0.20	µg/L	112	121	7.7%	207	194	NS	NS	NG	NG	NG	NG	NG	NG
Sulfur (S)-Total	500	µg/L	4380	4490	2.5%	4880	5300	NS	NS	NG	NG	NG	NG	NG	NG
Tellurium (Te)-Total	0.20	µg/L	<0.20	<0.20	-	<0.20	<0.20	NS	NS	NG	NG	NG	NG	NG	NG
Thallium (Tl)-Total	0.010	µg/L	0.012	0.013	-	<0.010	0.039	NS	NS	0.03 †	NG	NG	NG	NG	NG
Thorium (Th)-Total	0.10	µg/L	<0.10	<0.10	-	<0.10	0.39	NS	NS	NG	NG	NG	NG	NG	NG
Tin (Sn)-Total	0.10	µg/L	0.36	0.39	-	0.35	0.71	NS	NS	NG	NG	NG	NG	NG	NG
Titanium (Ti)-Total	0.30	µg/L	110	124	12.0%	36.7	424	NS	NS	NG	NG	NG	NG	NG	NG
Tungsten (W)-Total	0.10	µg/L	<0.10	<0.10	-	<0.10	0.14	NS	NS	NG	NG	NG	NG	NG	NG
Uranium (U)-Total	0.010	µg/L	0.095	0.104	9.0%	0.099	0.481	NS	NS	7.5 †	16.5†	NG	NG	NG	NG
Vanadium (V)-Total	0.50	µg/L	11.7	12.7	8.2%	3.71	22.9	NS	NS	60†	NG	5†	NG	NG	NG
Zinc (Zn)-Total	3.0	µg/L	47.6	47.9	0.6%	5.5	35.2	NS	NS	NG	NG	10 (7)	55 (7)	3000	3000
Zirconium (Zr)-Total	0.20	µg/L	<0.20	0.20	-	<0.20	0.37	NS	NS	NG	NG	NG	NG	NG	NG

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007
AW _F	Freshwater Aquatic Life Water Use Standards
DW	Drinking Water Use Standards
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025
µg/L	Micrograms per litre
NS	No standard
NG	No guideline
RPD	Relative percent difference
-	RPD not calculated
*	The long-term chronic WQG is valid between hardness 10 and 430 mg/L, pH 6 and 8.7, and DOC 0.08 and 12.3 mg/L. For the water chemistry measurements that are outside the water chemistry ranges please refer to the B.C. Aluminum Water Quality Guidelines - Freshwater Aquatic Life.
**	No guideline for Total Chromium
†	BC Working Water Quality Guideline
(1)	Calculated guideline range based on sample hardness
(2)	Guideline is for hexavalent chromium
(3)	Guideline is for trivalent chromium
(4)	Guideline is for lakes where salmonids are the predominant fish species
(5)	The guideline is for hardness and pH dependent and DOC 0.05 mg/L
(6)	The guideline is for hardness and pH dependent, DOC 0.03 mg/L and 4°C Temperature
(7)	Zinc - Guideline dependent on sample specific parameters hardness, DOC and pH
(8)	Lead - Guideline dependent on DOC 0.05mg/L, Hardness

Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds



Table 11
Groundwater Analytical Results - Aggregate Organics
Sheet 1 of 1

EXP Sample ID			AH26-01	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic Guidelines (ug/L)	BC WQG Marine Aquatic Guidelines (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-002	VA26A1215-003						
Date Sampled (DD-MMM-YYYY)			19-Jan-2026	19-Jan-2026	19-Jan-2026						
Parameter	RDL	Units									
Biochemical oxygen demand [BOD]	2000	µg/L	<2000	<2000	<2000	NS	NS	NG	NG	500000	500000
Oil & grease (gravimetric)	5000	µg/L	<5000	<5000	<5000	NS	NS	NG	NG	150000	150000
Oil & grease, mineral (gravimetric)	5000	µg/L	<5000	<5000	<5000	NS	NS	NG	NG	15000	15000

Notes

CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to October 27, 2025 by B.C. Reg. 171/2025)
Standards	Schedule 3.2 Generic Numerical Water Standards (displayed in ug/L unless otherwise specified)
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007
DW	Drinking Water Use
AW _F	BC CSR Freshwater Aquatic Life Standards
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025
NS	No standard
RDL	Reported detection limit
ug/L	Micrograms per litre

Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds



Table 12
Groundwater Analytical Results - Anions and Cyanides
Sheet 1 of 1

EXP Sample ID			AH26-01	AH26-02	AH26-03	CSR AW _F Standards	CSR DW Standards	BC WQG Freshwater Aquatic (Long-Term) (ug/L)	BC WQG Freshwater Aquatic (Short-Term) (ug/L)	BC WQG Marine Aquatic (Long-Term) (ug/L)	BC WQG Marine Aquatic (Short-Term) (ug/L)	CoNW Sewer and Drainage By-Law (ug/L)	GVS&DD Sewer Use By-Law (ug/L)
Laboratory Sample ID			VA26A1215-001	VA26A1215-002	VA26A1215-003								
Date Sampled (DD-MMM-YYYY)			19-Jan-2026	19-Jan-2026	19-Jan-2026								
Parameter	RDL	Units											
Chloride ion	500	µg/L	22700	83900	45900	1500000	250000	NG	NG	NG	NG	NG	NG
Sulfate (as SO4)	300	µg/L	13400	13600	14500	1280 - 4290 mg/L (1)	500 mg/L	30900 (2)	NG	NG	NG	1500000	1500000
Cyanide, strong acid dissociable (Total)	5.0	µg/L	<5.0	<5.0	<5.0	50	200	5, 10 (3)	NG	1 (3)	1 (3)	1000	1000

Notes		
GVS&DD	Greater Vancouver Sewerage and Drainage District Sewer Use By-Law No. 299, 2007	
CSR	British Columbia Contaminated Sites Regulation (CSR, BC, Reg. 375/96 including amendments up to B.C. Reg. 133/2022, March 1, 2023)	
Standards	Schedule 3.2 Generic Numerical Water Standards	
CoNW Sewer and Drainage Bylaw	Corporation of the City of New Westminster Sewerage and Drainage Regulation Bylaw No. 7746, 2015.	
DW	Drinking Water Use	
AW _F	BC CSR Freshwater Aquatic Life Standards	
WQG	BC Water Quality Guidelines (Approved and Working) Updated May 2025	
NG	No guideline	
RDL	Reported detection limit	
ug/L	Micrograms per litre	
(1)	Standard is Hardness dependent	
(2)	Guideline is Hardness dependent	
(3)	Guideline is for Maximum Acceptable Concentration	

Result	Analytical result exceeds CSR AW _F Standards and/or DW Standards
Result	Analytical result exceeds CoNW and GVS&DD Sewer Use By-Law thresholds
Result	Analytical result exceeds BC WQGs
Result	Analytical result exceeds CSR Standards and/or BC WQGs and/or CoNW and GVS&DD Sewer By-Law thresholds





APPENDIX A – Site Photographs



Photograph No. 1
Drilling in progress at AH26-01; photograph taken facing west. Dated 15 January 2026.



Photograph No. 2
Drilling in progress at AH26-02; photograph taken facing south. Dated 15 January 2026.



Photograph No. 3
Drilling in progress at AH26-03; photo taken facing north. Dated 15 January 2026.



Photograph No. 4
Soil stratigraphy at AH26-01 from 0'-5' (0 – 1.5 mbgs).



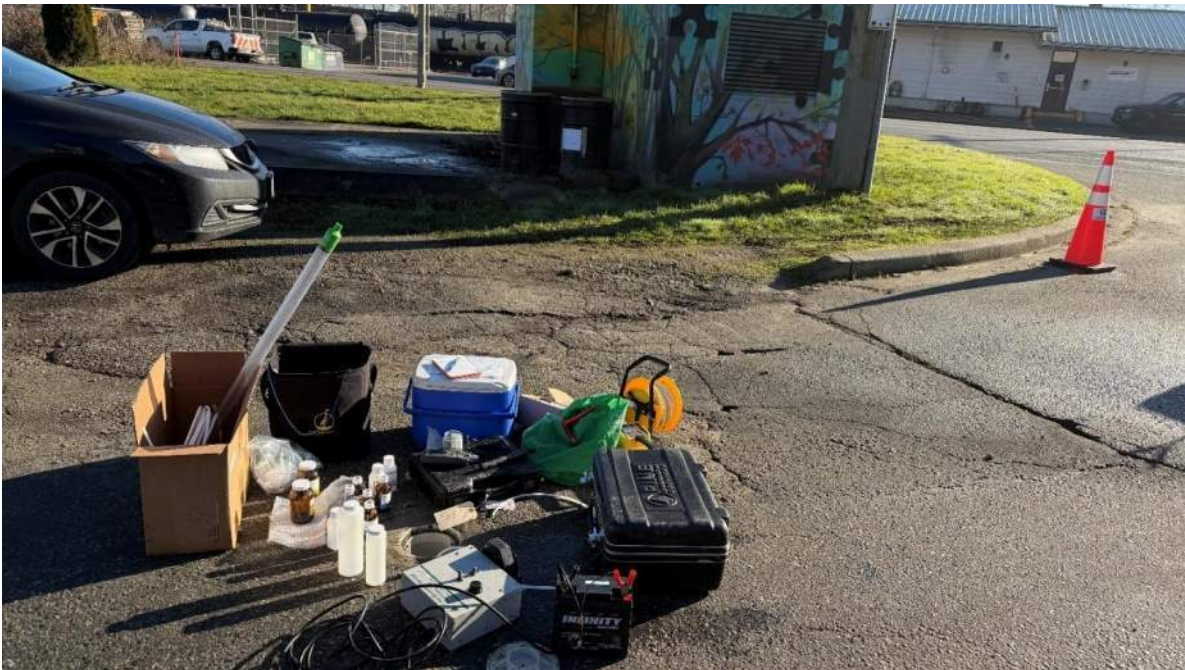
Photograph No. 5
Soil stratigraphy at AH26-01 from 5'-10' (1.5 – 3.0 mbgs).



Photograph No. 6
Soil stratigraphy at AH26-01 from 10'-15' (3.0 – 4.5 mbgs).



Photograph No. 7
View of groundwater well development at AH26-02. Dated 16 January 2026.



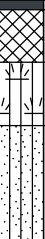
Photograph No. 8
View of groundwater sampling at AH26-01. Dated 19 January 2026.

B

APPENDIX B – Borehole Logs

PROJECT NUMBER WCA-25016719-A0
 PROJECT NAME City of New Westminster SA-16 Pump Station
 DRILLING DATE 2026-01-15
 DRILLING CONTRACTOR Downrite Drilling Ltd.
 DRILLING METHOD Solid Stem Auger
 EQUIPMENT TYPE Truck Mounted Auger Drill
 LOGGED BY JL CHECKED BY BW

CLIENT Aplin & Martin Consultants Ltd.
 PROJECT LOCATION 425 Brunette Avenue, New Westminster, BC
 AUGERHOLE LOCATION ZONE: 10 N: 5452934.21 E: 508323.16 Laneway near 422 Rousseau St.
 ELEVATION 3.70m (approximate)
 GROUND WATER DEPTHS: AT TIME OF DRILLING 2.4m
AT END OF DRILLING 2.44m
AFTER DRILLING 0.4m January 19, 2026 inside well

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES			RECOVERY %	SPT N VALUE BLOWS/0.3m	POCKET PEN. (kPa)	FINES CONTENT (%)	WELL DIAGRAM Casing Type:		
				NUMBER	TYPE	▲		●	□				
										DYNAMIC CONE BLOWS/0.3m		FIELD VANE SHEAR (kPa)	PLASTIC & LIQUID LIMIT MOISTURE CONTENT
								Peak	Remold	PL MC LL			
								40 80 120 160		20 40 60 80			
1		50mm thick ASPHALT	3.6				0			20			
		GRAVELLY SAND, fine to medium-grained sand, some silt, trace cobbles, trace rootlets and organics, dark brown, moist, (loose) (FILL)	0.1	G01	GB								
			3.4										
			0.3										
			3.1			G02	GB				83		
		0.6											
		ORGANIC SILT, black, moist, (stiff)											
		-contains rootlets								44			
		SILT & SAND, fine-grained sand, brown, wet, (soft to firm/loose)		G03	GB								
		2.0											
2		SILTY SAND, fine-grained, brown to light brown, wet, (loose)	1.7	G04	GB				32				
1.6													
2.1		G05	GB						29				
1.3									40				
3		CLAYEY SILT, low to medium plasticity, trace fine-grained sand, light grey/brown mottled grey to grey mottled brown, moist, (firm)	2.4	G06	GB								
4													
5		SILTY SAND, fine to medium-grained sand, some gravel, occasional cobbles, grey, moist to wet, (very dense) (TILL-LIKE)	4.6	G08	GB					11			
			-0.9										
			-1.5										

Bottom of hole at 5.2m.

ELEVATION: Estimated from drawings provided by the Client

PROJECT NUMBER WCA-25016719-A0
 PROJECT NAME City of New Westminster SA-16 Pump Station
 DRILLING DATE 2026-01-15
 DRILLING CONTRACTOR Downrite Drilling Ltd.
 DRILLING METHOD Solid Stem Auger
 EQUIPMENT TYPE Truck Mounted Auger Drill
 LOGGED BY JL CHECKED BY BW

CLIENT Aplin & Martin Consultants Ltd.
 PROJECT LOCATION 425 Brunette Avenue, New Westminster, BC
 AUGERHOLE LOCATION ZONE: 10 N: 5452957.65 E: 508316.71 SE side of parking lot
 ELEVATION 4.00m (approximate)
 GROUND WATER DEPTHS: ☒ AT TIME OF DRILLING 1.2m
☒ AT END OF DRILLING 1.22m
☒ AFTER DRILLING 0.1m January 19, 2026 inside well

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES		RECOVERY %	SPT N VALUE BLOWS/0.3m	POCKET PEN. (kPa)	FINES CONTENT (%)	WELL DIAGRAM
				NUMBER	TYPE		20 40 60 80	100 200 300 400	20 40 60 80	
		50mm thick ASPHALT	3.9	G01	GB		20 40 60 80	100 200 300 400	20 40 60 80	Casing Type:
		SAND, medium to coarse-grained, trace silt, grey, wet, (loose) (FILL)	0.1							
		ORGANIC SILT, black, wet, (stiff to soft)	3.8							Casing Type:
		-contains wood chips and rootlets	0.2	G02	GB					
1		SILT & SAND, fine-grained sand, grey, wet, (soft/loose)	3.1							Casing Type:
			0.9	G03	GB					
		CLAYEY SILT, low plasticity, trace fine-grained sand, light grey to grey mottled brown, moist, (soft to stiff)	2.8							Casing Type:
		-changes to grey mottled brown at 1.5m	1.2	G04	GB					
2										Casing Type:
				G05	GB					Casing Type:
3		-very stiff from 2.7 to 3.0m	1.0							Casing Type:
			3.0							
		SILTY SAND, fine to medium-grained sand, some gravel, occasional cobbles, grey, moist to wet, (very dense) (TILL-LIKE)								Casing Type:
				G06	GB					
4										Casing Type:
			-0.6							Casing Type:

Bottom of hole at 4.6m.

ELEVATION: Estimated from drawings provided by the Client

PROJECT NUMBER WCA-25016719-A0
 PROJECT NAME City of New Westminster SA-16 Pump Station
 DRILLING DATE 2026-01-15
 DRILLING CONTRACTOR Downrite Drilling Ltd.
 DRILLING METHOD Solid Stem Auger
 EQUIPMENT TYPE Truck Mounted Auger Drill
 LOGGED BY JL CHECKED BY BW

CLIENT Aplin & Martin Consultants Ltd.
 PROJECT LOCATION 425 Brunette Avenue, New Westminster, BC
 AUGERHOLE LOCATION ZONE: 10 N: 5452955.39 E: 508293.13 SW side of parking lot
 ELEVATION 5.00m (approximate)
 GROUND WATER DEPTHS: AT TIME OF DRILLING 1.8m
AT END OF DRILLING 1.83m
AFTER DRILLING 0.3m January 19, 2026 inside well

DEPTH (m)	STRATA	SOIL DESCRIPTION	ELEV. DEPTH (m)	SAMPLES		RECOVERY %	SPT N VALUE BLOWS/0.3m ▲	POCKET PEN. (kPa) ●	FINES CONTENT (%) □	WELL DIAGRAM Casing Type:
				NUMBER	TYPE		20 40 60 80 DYNAMIC CONE BLOWS/0.3m ▣	100 200 300 400 FIELD VANE SHEAR (kPa) Peak Remold ● ○	20 40 60 80 PLASTIC & LIQUID LIMIT MOISTURE CONTENT PL MC LL 20 40 60 80	
		50mm thick ASPHALT	4.9							
		▼ SILT, trace to some fine-grained sand, trace rootlets and organics, dark brown, moist, (soft) (FILL)	0.1	G01	GB		2		35	
			4.7				7		33	
		CLAYEY SILT, low plasticity, trace fine-grained sand, brownish grey to light grey/grey mottled brown, moist, (firm)	0.3	G02	GB		4		22	
		-changes to grey mottled brown at 0.8m					8		11	
1			3.8	G03	GB				11	
		SILTY SAND, fine to medium-grained sand, some gravel, occasional cobbles, grey mottled brown/light brown to greyish brown to grey, moist to wet, (very dense) (TILL-LIKE)	1.2	G04	GB				11	
				G05	GB				13	
		▼ -greyish brown from 1.5 to 1.8m							14	
2		-wet soil samples and grey below 1.8m		G06	GB					
3										
4				G07	GB					
			0.4							

Bottom of hole at 4.6m.

ELEVATION: Estimated from drawings provided by the Client

C

APPENDIX C – Certificate of Analysis for Soil

CERTIFICATE OF ANALYSIS

Work Order	: VA26A1045		
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby British Columbia Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: tasnia.tarannum@alsglobal.com
Project	: WCA-25016719-A0	Telephone	: +1 604 253 4188
PO	: ----	Date Samples Received	: 15-Jan-2026 22:30
C-O-C number	: 25-0013864/25-0014143	Date Analysis Commenced	: 20-Jan-2026
Sampler	: NB	Issue Date	: 27-Jan-2026 15:53
Site	: ----		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Jon Fisher	Laboratory Manager - Environmental	Metals, Waterloo, Ontario
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Ophelia Chiu	Department Manager - Organics	Organics, Burnaby, British Columbia
Paul Cushing	Team Leader - Organics	Organics, Burnaby, British Columbia
Robert Nguyen	Analyst	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Yimeng Cao	Analyst- General	Organics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	AH26-01@2' ----	AH26-01@4.5' ----	AH26-01@9' ----	AH26-01@14.5' ----	AH26-01@16' ----
Client sampling date / time					15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005	
					Result	Result	Result	Result	Result	
Physical Tests										
% Saturation	----	E141/VA	1.0	%	123	62.7	----	----	27.1	
Moisture	----	E144/VA	0.25	%	46.9	27.3	30.3	----	----	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	6.09	6.29	7.66	7.94	8.12	
Saturated Paste Extractables										
Chloride, soluble ion content	16887-00-6	EC239A.CI/VA	1.0	mg/kg	39.4	14.4	----	----	3.0	
Chloride, soluble ion content	16887-00-6	E239.CI/VA	10	mg/L	32	23	----	----	11	
Sodium, soluble ion content	17341-25-2	EC442/VA	1.00	mg/kg	37.4	14.0	----	----	2.38	
Sodium, soluble ion content	17341-25-2	E442/VA	2.0	mg/L	30.4	22.4	----	----	8.8	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	13200	14300	56200	23200	11500	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	0.23	0.11	0.53	0.45	0.11	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	2.24	1.77	12.8	8.37	1.88	
Barium	7440-39-3	E440/VA	0.50	mg/kg	72.5	36.8	250	105	49.5	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.28	0.23	0.69	0.38	0.14	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	<0.20	<0.20	0.22	<0.20	<0.20	
Boron	7440-42-8	E440/VA	5.0	mg/kg	<5.0	<5.0	6.3	<5.0	<5.0	
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg	0.29	----	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	0.180	0.056	0.098	0.113	0.029	
Calcium	7440-70-2	E440/VA	50	mg/kg	7610	2730	8010	6590	4410	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	15.1	13.2	66.2	41.0	12.1	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	4.20	3.03	26.0	19.2	4.78	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	AH26-01@2' ----	AH26-01@4.5' ----	AH26-01@9' ----	AH26-01@14.5' ----	AH26-01@16' ----
Client sampling date / time					15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005	
					Result	Result	Result	Result	Result	
Metals										
Copper	7440-50-8	E440/VA	0.50	mg/kg	15.9	7.14	70.7	45.1	11.4	
Iron	7439-89-6	E440/VA	50	mg/kg	10200	7780	55600	29600	14900	
Lead	7439-92-1	E440/VA	0.50	mg/kg	10.5	3.51	12.0	4.94	2.14	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	5.0	6.4	29.1	12.2	4.1	
Magnesium	7439-95-4	E440/VA	20	mg/kg	3520	3200	19200	9420	4010	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	214	132	731	745	234	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	0.0811	<0.0500	<0.0500	<0.0500	<0.0500	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	1.13	0.65	0.88	0.69	0.18	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	12.4	8.60	55.0	35.0	7.59	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	467	289	343	621	366	
Potassium	7440-09-7	E440/VA	100	mg/kg	620	420	4610	1930	820	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.68	0.29	<0.20	<0.20	<0.20	
Silver	7440-22-4	E440/VA	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	7440-23-5	E440/VA	50	mg/kg	480	179	449	359	379	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	59.8	21.6	105	50.2	35.5	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	1200	<1000	<1000	<1000	<1000	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	0.213	0.109	<0.050	
Tin	7440-31-5	E440/VA	2.0	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	507	632	1820	1350	779	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	0.467	0.339	0.920	1.21	0.388	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-01@2'	AH26-01@4.5'	AH26-01@9'	AH26-01@14.5'	AH26-01@16'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005
						Result	Result	Result	Result	Result
Metals										
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		36.2	32.5	123	78.8	41.5
Zinc	7440-66-6	E440/VA	2.0	mg/kg		31.9	32.8	136	67.5	26.9
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.0	<1.0	5.7	6.4	3.3
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	----	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Chloromethane	74-87-3	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichloropropane, 1,2-	78-87-5	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611N/VA	0.075	mg/kg		----	<0.075	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Trichlorofluoromethane	75-69-4	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----
Volatile Organic Compounds [Drycleaning]										
Carbon tetrachloride	56-23-5	E611N/VA	0.050	mg/kg		----	<0.050	----	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	AH26-01@2' ----	AH26-01@4.5' ----	AH26-01@9' ----	AH26-01@14.5' ----	AH26-01@16' ----
Client sampling date / time					15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005	
					Result	Result	Result	Result	Result	
Volatile Organic Compounds [Drycleaning]										
Chloroethane	75-00-3	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloroethane, 1,1-	75-34-3	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloroethylene, 1,1-	75-35-4	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloroethylene, cis-1,2-	156-59-2	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloroethylene, trans-1,2-	156-60-5	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloromethane	75-09-2	E611N/VA	0.045	mg/kg	----	<0.045	----	----	----	
Dichloropropylene, trans-1,3-	10061-02-6	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Tetrachloroethylene	127-18-4	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Trichloroethylene	79-01-6	E611N/VA	0.010	mg/kg	----	<0.010	----	----	----	
Vinyl chloride	75-01-4	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611N/VA	0.0050	mg/kg	----	<0.0050	----	----	----	
Butadiene, 1,3-	106-99-0	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Cymene, p-	99-87-6	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Decane, n-	124-18-5	E611N/VA	4.00	mg/kg	----	<4.00	----	----	----	
Dibromoethane, 1,2-	106-93-4	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dichloroethane, 1,2-	107-06-2	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Ethylbenzene	100-41-4	E611N/VA	0.015	mg/kg	----	<0.015	----	----	----	
Hexane, n-	110-54-3	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Isopropylbenzene	98-82-8	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N/VA	0.040	mg/kg	----	<0.040	----	----	----	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	AH26-01@2' ----	AH26-01@4.5' ----	AH26-01@9' ----	AH26-01@14.5' ----	AH26-01@16' ----
Client sampling date / time					15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005	
					Result	Result	Result	Result	Result	
Volatile Organic Compounds [Fuels]										
Methylcyclohexane	108-87-2	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Propylbenzene, n-	103-65-1	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Styrene	100-42-5	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Toluene	108-88-3	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Trimethylbenzene, 1,2,4-	95-63-6	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Trimethylbenzene, 1,3,5-	108-67-8	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Xylene, m+p-	179601-23-1	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Xylene, o-	95-47-6	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Xylenes, total	1330-20-7	E611N/VA	0.075	mg/kg	----	<0.075	----	----	----	
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Bromoform	75-25-2	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Chloroform	67-66-3	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Dibromochloromethane	124-48-1	E611N/VA	0.050	mg/kg	----	<0.050	----	----	----	
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	200	mg/kg	----	----	<200	----	----	
EPH (C19-C32)	----	E601A/VA	200	mg/kg	----	----	<200	----	----	
VHs (C6-C10)	----	E581.VH+F1/VA	10	mg/kg	----	<10	----	----	----	
HEPHs	----	EC600A/VA	200	mg/kg	----	----	<200	----	----	
LEPHs	----	EC600A/VA	200	mg/kg	----	----	<200	----	----	
VPHs	----	EC580A/VA	10	mg/kg	----	<10	----	----	----	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-01@2'	AH26-01@4.5'	AH26-01@9'	AH26-01@14.5'	AH26-01@16'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005
						Result	Result	Result	Result	Result
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%		----	----	94.2	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/VA	1.0	%		----	81.7	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611N/VA	0.10	%		----	71.4	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611N/VA	0.10	%		----	75.0	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/VA	0.0050	mg/kg		----	----	0.0589	----	----
Acenaphthylene	208-96-8	E641A-L/VA	0.0050	mg/kg		----	----	0.0060	----	----
Acridine	260-94-6	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Anthracene	120-12-7	E641A-L/VA	0.0040	mg/kg		----	----	0.135	----	----
Benz(a)anthracene	56-55-3	E641A-L/VA	0.010	mg/kg		----	----	0.127	----	----
Benzo(a)pyrene	50-32-8	E641A-L/VA	0.010	mg/kg		----	----	0.121	----	----
Benzo(b+j)fluoranthene	n/a	E641A-L/VA	0.010	mg/kg		----	----	0.114	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A-L/VA	0.015	mg/kg		----	----	0.163	----	----
Benzo(g,h,i)perylene	191-24-2	E641A-L/VA	0.010	mg/kg		----	----	0.079	----	----
Benzo(k)fluoranthene	207-08-9	E641A-L/VA	0.010	mg/kg		----	----	0.049	----	----
Chrysene	218-01-9	E641A-L/VA	0.010	mg/kg		----	----	0.138	----	----
Dibenz(a,h)anthracene	53-70-3	E641A-L/VA	0.0050	mg/kg		----	----	0.0159	----	----
Fluoranthene	206-44-0	E641A-L/VA	0.010	mg/kg		----	----	0.375	----	----
Fluorene	86-73-7	E641A-L/VA	0.010	mg/kg		----	----	0.069	----	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L/VA	0.010	mg/kg		----	----	0.081	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-01@2'	AH26-01@4.5'	AH26-01@9'	AH26-01@14.5'	AH26-01@16'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-001	VA26A1045-002	VA26A1045-003	VA26A1045-004	VA26A1045-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1-	90-12-0	E641A-L/VA	0.010	mg/kg		----	----	0.020	----	----
Methylnaphthalene, 2-	91-57-6	E641A-L/VA	0.010	mg/kg		----	----	0.026	----	----
Naphthalene	91-20-3	E641A-L/VA	0.010	mg/kg		----	----	0.060	----	----
Phenanthrene	85-01-8	E641A-L/VA	0.010	mg/kg		----	----	0.376	----	----
Pyrene	129-00-0	E641A-L/VA	0.010	mg/kg		----	----	0.315	----	----
Quinoline	91-22-5	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/VA	0.020	mg/kg		----	----	0.176	----	----
IACR (CCME)	----	E641A-L/VA	0.150	-		----	----	1.91	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A-L/VA	0.1	%		----	----	88.9	----	----
Chrysene-d12	1719-03-5	E641A-L/VA	0.1	%		----	----	105	----	----
Naphthalene-d8	1146-65-2	E641A-L/VA	0.1	%		----	----	89.9	----	----
Phenanthrene-d10	1517-22-2	E641A-L/VA	0.1	%		----	----	99.6	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Physical Tests										
% Saturation	----	E141/VA	1.0	%		157	----	66.2	21.8	50.3



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%	----	26.3	20.9	----	26.0	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	6.20	7.46	7.75	7.83	6.41	
Saturated Paste Extractables										
Chloride, soluble ion content	16887-00-6	EC239A.CI/VA	1.0	mg/kg	33.0	----	19.2	7.8	19.6	
Chloride, soluble ion content	16887-00-6	E239.CI/VA	10	mg/L	21	----	29	36	39	
Sodium, soluble ion content	17341-25-2	EC442/VA	1.00	mg/kg	25.1	----	5.69	2.42	11.8	
Sodium, soluble ion content	17341-25-2	E442/VA	2.0	mg/L	16.0	----	8.6	11.1	23.4	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	13300	41300	25200	14000	27100	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	0.48	0.44	0.38	0.16	0.29	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	3.98	14.8	7.48	2.77	4.23	
Barium	7440-39-3	E440/VA	0.50	mg/kg	101	228	123	64.4	90.8	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.32	0.45	0.42	0.16	0.34	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	
Boron	7440-42-8	E440/VA	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg	----	<0.10	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	0.270	0.076	0.070	0.045	0.150	
Calcium	7440-70-2	E440/VA	50	mg/kg	9340	6230	7590	5560	4310	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	27.9	49.5	42.4	16.1	25.1	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	6.83	17.9	14.9	5.87	7.12	
Copper	7440-50-8	E440/VA	0.50	mg/kg	19.3	29.9	41.5	12.8	11.1	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Metals										
Iron	7439-89-6	E440/VA	50	mg/kg		15300	41600	30900	17200	17100
Lead	7439-92-1	E440/VA	0.50	mg/kg		20.8	10.1	5.16	2.44	10.2
Lithium	7439-93-2	E440/VA	2.0	mg/kg		6.5	23.1	12.6	5.9	12.0
Magnesium	7439-95-4	E440/VA	20	mg/kg		5740	12200	9680	4740	6170
Manganese	7439-96-5	E440/VA	1.0	mg/kg		348	486	625	266	281
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		0.105	<0.0500	<0.0500	<0.0500	<0.0500
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		1.17	0.73	0.47	0.17	0.46
Nickel	7440-02-0	E440/VA	0.50	mg/kg		24.2	35.9	34.5	10.3	16.5
Phosphorus	7723-14-0	E440/VA	50	mg/kg		639	221	549	372	399
Potassium	7440-09-7	E440/VA	100	mg/kg		630	2920	2340	1130	770
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.64	<0.20	<0.20	<0.20	0.39
Silver	7440-22-4	E440/VA	0.10	mg/kg		0.12	<0.10	<0.10	<0.10	<0.10
Sodium	7440-23-5	E440/VA	50	mg/kg		298	305	433	501	244
Strontium	7440-24-6	E440/VA	0.50	mg/kg		74.8	61.7	52.0	43.6	40.0
Sulfur	7704-34-9	E440/VA	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/VA	0.050	mg/kg		0.052	0.111	0.116	<0.050	0.054
Tin	7440-31-5	E440/VA	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/VA	1.0	mg/kg		624	1590	1580	925	1090
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/VA	0.050	mg/kg		0.457	0.687	0.938	0.348	0.454
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		43.7	114	80.5	50.8	55.0



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Metals										
Zinc	7440-66-6	E440/VA	2.0	mg/kg		60.5	83.7	68.5	30.4	76.9
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.2	5.5	4.8	3.1	1.7
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		----	1.13	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Chloromethane	74-87-3	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichlorobenzene, 1,2-	95-50-1	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichlorobenzene, 1,3-	541-73-1	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichlorobenzene, 1,4-	106-46-7	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichloropropane, 1,2-	78-87-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611N/VA	0.075	mg/kg		----	----	<0.075	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Trichloroethane, 1,1,1-	71-55-6	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Trichloroethane, 1,1,2-	79-00-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Trichlorofluoromethane	75-69-4	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Volatile Organic Compounds [Drycleaning]										
Carbon tetrachloride	56-23-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Chloroethane	75-00-3	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010	
					Result	Result	Result	Result	Result	
Volatile Organic Compounds [Drycleaning]										
Dichloroethane, 1,1-	75-34-3	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Dichloromethane	75-09-2	E611N/VA	0.045	mg/kg	----	----	<0.045	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Tetrachloroethylene	127-18-4	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Trichloroethylene	79-01-6	E611N/VA	0.010	mg/kg	----	----	<0.010	----	----	----
Vinyl chloride	75-01-4	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611N/VA	0.0050	mg/kg	----	----	<0.0050	----	----	----
Butadiene, 1,3-	106-99-0	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Cymene, p-	99-87-6	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Decane, n-	124-18-5	E611N/VA	4.00	mg/kg	----	----	<4.00	----	----	----
Dibromoethane, 1,2-	106-93-4	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Dichloroethane, 1,2-	107-06-2	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Ethylbenzene	100-41-4	E611N/VA	0.015	mg/kg	----	----	<0.015	----	----	----
Hexane, n-	110-54-3	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Isopropylbenzene	98-82-8	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N/VA	0.040	mg/kg	----	----	<0.040	----	----	----
Methylcyclohexane	108-87-2	E611N/VA	0.050	mg/kg	----	----	<0.050	----	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Volatile Organic Compounds [Fuels]										
Propylbenzene, n-	103-65-1	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Styrene	100-42-5	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Toluene	108-88-3	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Xylene, m+p-	179601-23-1	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Xylene, o-	95-47-6	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Xylenes, total	1330-20-7	E611N/VA	0.075	mg/kg		----	----	<0.075	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Bromoform	75-25-2	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Chloroform	67-66-3	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Dibromochloromethane	124-48-1	E611N/VA	0.050	mg/kg		----	----	<0.050	----	----
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	200	mg/kg		----	----	<200	----	----
EPH (C19-C32)	----	E601A/VA	200	mg/kg		----	----	<200	----	----
VHs (C6-C10)	----	E581.VH+F1/VA	10	mg/kg		----	----	<10	----	<10
HEPHs	----	EC600A/VA	200	mg/kg		----	----	<200	----	----
LEPHs	----	EC600A/VA	200	mg/kg		----	----	<200	----	----
VPHs	----	EC580A/VA	10	mg/kg		----	----	<10	----	<10



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%		----	----	94.3	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/VA	1.0	%		----	----	98.4	----	78.7
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611N/VA	0.10	%		----	----	75.9	----	----
Difluorobenzene, 1,4-	540-36-3	E611N/VA	0.10	%		----	----	80.1	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/VA	0.0050	mg/kg		----	----	<0.0050	----	----
Acenaphthylene	208-96-8	E641A-L/VA	0.0050	mg/kg		----	----	<0.0050	----	----
Acridine	260-94-6	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Anthracene	120-12-7	E641A-L/VA	0.0040	mg/kg		----	----	<0.0040	----	----
Benz(a)anthracene	56-55-3	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Benzo(a)pyrene	50-32-8	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Benzo(b+j)fluoranthene	n/a	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A-L/VA	0.015	mg/kg		----	----	<0.015	----	----
Benzo(g,h,i)perylene	191-24-2	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Benzo(k)fluoranthene	207-08-9	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Chrysene	218-01-9	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Dibenz(a,h)anthracene	53-70-3	E641A-L/VA	0.0050	mg/kg		----	----	<0.0050	----	----
Fluoranthene	206-44-0	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Fluorene	86-73-7	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-02@2'	AH26-02@4'	AH26-02@9'	AH26-02@14'	AH26-03@2'
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-006	VA26A1045-007	VA26A1045-008	VA26A1045-009	VA26A1045-010
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1-	90-12-0	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Methylnaphthalene, 2-	91-57-6	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Naphthalene	91-20-3	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Phenanthrene	85-01-8	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Pyrene	129-00-0	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
Quinoline	91-22-5	E641A-L/VA	0.010	mg/kg		----	----	<0.010	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-L/VA	0.020	mg/kg		----	----	<0.020	----	----
IACR (CCME)	----	E641A-L/VA	0.150	-		----	----	<0.150	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A-L/VA	0.1	%		----	----	101	----	----
Chrysene-d12	1719-03-5	E641A-L/VA	0.1	%		----	----	111	----	----
Naphthalene-d8	1146-65-2	E641A-L/VA	0.1	%		----	----	96.2	----	----
Phenanthrene-d10	1517-22-2	E641A-L/VA	0.1	%		----	----	106	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-A	DUP-B
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-014	VA26A1045-015
						Result	Result	Result	Result	Result
Physical Tests										
% Saturation	----	E141/VA	1.0	%		----	24.1	23.2	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-A	DUP-B
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-014	VA26A1045-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		19.3	13.5	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		7.46	7.68	7.92	7.90	8.29
Saturated Paste Extractables										
Chloride, soluble ion content	16887-00-6	EC239A.CI/VA	1.0	mg/kg		----	11.3	7.4	----	----
Chloride, soluble ion content	16887-00-6	E239.CI/VA	10	mg/L		----	47	32	----	----
Sodium, soluble ion content	17341-25-2	EC442/VA	1.00	mg/kg		----	7.45	3.02	----	----
Sodium, soluble ion content	17341-25-2	E442/VA	2.0	mg/L		----	30.9	13.0	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		19500	14000	9230	14000	9560
Antimony	7440-36-0	E440/VA	0.10	mg/kg		0.22	0.14	<0.10	0.17	0.11
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		8.44	3.63	1.69	3.27	1.59
Barium	7440-39-3	E440/VA	0.50	mg/kg		74.8	61.2	47.4	62.8	38.7
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.25	0.16	0.11	0.16	0.11
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Boron	7440-42-8	E440/VA	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Boron, hot water soluble	7440-42-8	E487/WT	0.10	mg/kg		<0.10	----	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		0.032	0.041	0.032	0.043	0.032
Calcium	7440-70-2	E440/VA	50	mg/kg		4190	4070	3930	4840	4480
Chromium	7440-47-3	E440/VA	0.50	mg/kg		22.5	13.5	10.1	19.7	11.7
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		7.54	5.92	4.42	7.06	4.31
Copper	7440-50-8	E440/VA	0.50	mg/kg		16.4	13.0	9.67	16.6	9.39



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-A	DUP-B
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-014	VA26A1045-015
						Result	Result	Result	Result	Result
Metals										
Iron	7439-89-6	E440/VA	50	mg/kg		21300	17000	13500	18600	13600
Lead	7439-92-1	E440/VA	0.50	mg/kg		3.19	2.32	1.72	2.68	1.67
Lithium	7439-93-2	E440/VA	2.0	mg/kg		8.3	6.3	4.1	6.5	3.7
Magnesium	7439-95-4	E440/VA	20	mg/kg		5380	5030	3810	5210	3380
Manganese	7439-96-5	E440/VA	1.0	mg/kg		310	310	227	284	219
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		0.34	0.17	0.14	0.20	0.12
Nickel	7440-02-0	E440/VA	0.50	mg/kg		14.7	8.92	7.29	13.2	6.81
Phosphorus	7723-14-0	E440/VA	50	mg/kg		347	375	329	389	369
Potassium	7440-09-7	E440/VA	100	mg/kg		1030	960	930	1020	730
Selenium	7782-49-2	E440/VA	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Silver	7440-22-4	E440/VA	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	7440-23-5	E440/VA	50	mg/kg		320	318	366	436	470
Strontium	7440-24-6	E440/VA	0.50	mg/kg		41.1	34.0	30.0	35.7	36.2
Sulfur	7704-34-9	E440/VA	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/VA	0.050	mg/kg		0.054	<0.050	<0.050	<0.050	<0.050
Tin	7440-31-5	E440/VA	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/VA	1.0	mg/kg		1120	876	653	890	760
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/VA	0.050	mg/kg		0.566	0.358	0.228	0.387	0.279
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		66.6	50.4	37.3	54.4	39.5



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-A	DUP-B
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-014	VA26A1045-015
						Result	Result	Result	Result	Result
Metals										
Zinc	7440-66-6	E440/VA	2.0	mg/kg		35.0	30.6	25.9	34.3	23.4
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		3.1	2.5	2.8	3.3	3.1
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.30	----	----	----	----
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	200	mg/kg		----	<200	----	----	----
EPH (C19-C32)	----	E601A/VA	200	mg/kg		----	<200	----	----	----
HEPHs	----	EC600A/VA	200	mg/kg		----	<200	----	----	----
LEPHs	----	EC600A/VA	200	mg/kg		----	<200	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%		----	90.7	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A-L/VA	0.0050	mg/kg		----	<0.0050	----	----	----
Acenaphthylene	208-96-8	E641A-L/VA	0.0050	mg/kg		----	<0.0050	----	----	----
Acridine	260-94-6	E641A-L/VA	0.010	mg/kg		----	<0.010	----	----	----
Anthracene	120-12-7	E641A-L/VA	0.0040	mg/kg		----	<0.0040	----	----	----
Benz(a)anthracene	56-55-3	E641A-L/VA	0.010	mg/kg		----	<0.010	----	----	----
Benzo(a)pyrene	50-32-8	E641A-L/VA	0.010	mg/kg		----	<0.010	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A-L/VA	0.010	mg/kg		----	<0.010	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A-L/VA	0.015	mg/kg		----	<0.015	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A-L/VA	0.010	mg/kg		----	<0.010	----	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@4'	AH26-03@9'	AH26-03@14'	DUP-A	DUP-B
					Client sampling date / time	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00	15-Jan-2026 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1045-011	VA26A1045-012	VA26A1045-013	VA26A1045-014	VA26A1045-015
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Benzo(k)fluoranthene	207-08-9	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Chrysene	218-01-9	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A-LVA	0.0050	mg/kg		----	<0.0050	----	----	----
Fluoranthene	206-44-0	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Fluorene	86-73-7	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Naphthalene	91-20-3	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Phenanthrene	85-01-8	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Pyrene	129-00-0	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
Quinoline	91-22-5	E641A-LVA	0.010	mg/kg		----	<0.010	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A-LVA	0.020	mg/kg		----	<0.020	----	----	----
IACR (CCME)	----	E641A-LVA	0.150	-		----	<0.150	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A-LVA	0.1	%		----	99.8	----	----	----
Chrysene-d12	1719-03-5	E641A-LVA	0.1	%		----	109	----	----	----
Naphthalene-d8	1146-65-2	E641A-LVA	0.1	%		----	96.2	----	----	----
Phenanthrene-d10	1517-22-2	E641A-LVA	0.1	%		----	104	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	AH26-03@2'	----	----	----	----
					Client sampling date / time	15-Jan-2026 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-016	----	----	----	----	----
					Result	----	----	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%	26.8	----	----	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Chloromethane	74-87-3	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloropropane, 1,2-	78-87-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611N/VA	0.075	mg/kg	<0.075	----	----	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Trichloroethane, 1,1,2-	79-00-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Trichlorofluoromethane	75-69-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Volatile Organic Compounds [Drycleaning]										
Carbon tetrachloride	56-23-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Chloroethane	75-00-3	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloroethane, 1,1-	75-34-3	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@2'	----	----	----	----
					Client sampling date / time	15-Jan-2026 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-016	----	----	----	----	----
						Result	----	----	----	----
Volatile Organic Compounds [Drycleaning]										
Dichloroethylene, trans-1,2-	156-60-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloromethane	75-09-2	E611N/VA	0.045	mg/kg	<0.045	----	----	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Trichloroethylene	79-01-6	E611N/VA	0.010	mg/kg	<0.010	----	----	----	----	----
Vinyl chloride	75-01-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611N/VA	0.0050	mg/kg	0.0057	----	----	----	----	----
Butadiene, 1,3-	106-99-0	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Cymene, p-	99-87-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Decane, n-	124-18-5	E611N/VA	4.00	mg/kg	<4.00	----	----	----	----	----
Dibromoethane, 1,2-	106-93-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Ethylbenzene	100-41-4	E611N/VA	0.015	mg/kg	<0.015	----	----	----	----	----
Hexane, n-	110-54-3	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Isopropylbenzene	98-82-8	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N/VA	0.040	mg/kg	<0.040	----	----	----	----	----
Methylcyclohexane	108-87-2	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Propylbenzene, n-	103-65-1	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Styrene	100-42-5	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Toluene	108-88-3	E611N/VA	0.050	mg/kg	0.076	----	----	----	----	----



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	AH26-03@2'	----	----	----	----
					Client sampling date / time	15-Jan-2026 00:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1045-016	----	----	----	----	----
					Result	----	----	----	----	----
Volatile Organic Compounds [Fuels]										
Trimethylbenzene, 1,2,4-	95-63-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Xylene, o-	95-47-6	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Xylenes, total	1330-20-7	E611N/VA	0.075	mg/kg	<0.075	----	----	----	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Bromoform	75-25-2	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Chloroform	67-66-3	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Dibromochloromethane	124-48-1	E611N/VA	0.050	mg/kg	<0.050	----	----	----	----	----
Hydrocarbons										
VHs (C6-C10)	----	E581.VH+F1/VA	10	mg/kg	<10	----	----	----	----	----
VPHs	----	EC580A/VA	10	mg/kg	<10	----	----	----	----	----
Hydrocarbons Surrogates										
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/VA	1.0	%	73.3	----	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611N/VA	0.10	%	71.4	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611N/VA	0.10	%	76.2	----	----	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: VA26A1045	Page	: 1 of 20
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby BC Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: WCA-25016719-A0	Date Samples Received	: 15-Jan-2026 22:30
PO	: ----	Issue Date	: 27-Jan-2026 15:53
C-O-C number	: 25-0013864/25-0014143		
Sampler	: NB		
Site	:		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples
Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Polycyclic Aromatic Hydrocarbons	VA26A1045-003	AH26-01@9'	Naphthalene	91-20-3	E641A-L	69.4 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Hydrocarbons : BC PHCs - EPH by GC-FID										
Glass soil jar/Teflon lined cap AH26-01@9'	E601A	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : BC PHCs - EPH by GC-FID										
Glass soil jar/Teflon lined cap AH26-02@9'	E601A	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : BC PHCs - EPH by GC-FID										
Glass soil jar/Teflon lined cap AH26-03@9'	E601A	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass soil methanol vial AH26-01@4.5'	E581.VH+F1	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass soil methanol vial AH26-02@9'	E581.VH+F1	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass soil methanol vial AH26-03@2', AH26-03@2'	E581.VH+F1	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap AH26-01@2'	E487	15-Jan-2026	22-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	0 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap AH26-02@4'	E487	15-Jan-2026	22-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	0 days	✓
Metals : Boron-Hot Water Extractable by ICPOES										
Glass soil jar/Teflon lined cap AH26-03@4'	E487	15-Jan-2026	22-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-03@4'	E510	15-Jan-2026	21-Jan-2026	28 days	6 days	✓	21-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap DUP-A	E510	15-Jan-2026	21-Jan-2026	28 days	6 days	✓	21-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap DUP-B	E510	15-Jan-2026	21-Jan-2026	28 days	6 days	✓	21-Jan-2026	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-01@14.5'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-01@16'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-01@2'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-01@9'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-02@14'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-02@2'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-02@4'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-02@9'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-03@14'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-03@2'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap AH26-03@9'	E510	15-Jan-2026	21-Jan-2026	28 days	7 days	✓	22-Jan-2026	28 days	1 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-03@4'	E440	15-Jan-2026	21-Jan-2026	180 days	6 days	✓	21-Jan-2026	180 days	6 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap DUP-A	E440	15-Jan-2026	21-Jan-2026	180 days	6 days	✓	21-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap DUP-B	E440	15-Jan-2026	21-Jan-2026	180 days	6 days	✓	21-Jan-2026	180 days	6 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-01@14.5'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-01@16'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-01@2'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-01@9'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-02@14'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-02@2'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-02@4'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-02@9'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-03@14'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-03@2'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap AH26-03@9'	E440	15-Jan-2026	21-Jan-2026	180 days	7 days	✓	22-Jan-2026	180 days	7 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-01@2'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-01@9'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-02@4'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-02@9'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-03@2'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Glass soil jar/Teflon lined cap AH26-03@2'	E144	15-Jan-2026	----	----	----		22-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-03@4'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap AH26-03@9'	E144	15-Jan-2026	----	----	----		20-Jan-2026	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-03@4'	E108	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap DUP-A	E108	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap DUP-B	E108	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	21-Jan-2026	30 days	6 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-01@14.5'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-01@16'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-01@2'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-01@9'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-02@14'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-02@2'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-02@4'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-02@9'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-03@14'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-03@2'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
Glass soil jar/Teflon lined cap AH26-03@9'	E108	15-Jan-2026	21-Jan-2026	30 days	7 days	✓	21-Jan-2026	30 days	7 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)										
Glass soil jar/Teflon lined cap AH26-01@9'	E641A-L	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)										
Glass soil jar/Teflon lined cap AH26-02@9'	E641A-L	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)										
Glass soil jar/Teflon lined cap AH26-03@9'	E641A-L	15-Jan-2026	20-Jan-2026	14 days	6 days	✓	21-Jan-2026	40 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-01@16'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-01@2'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-02@14'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-02@2'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-02@9'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-03@14'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-03@2'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)										
Glass soil jar/Teflon lined cap AH26-03@9'	E442	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	22-Jan-2026	180 days	1 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-01@16'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-01@2'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-02@14'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-02@2'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-02@9'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-03@14'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-03@2'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Chloride by IC (Saturated Paste)										
Glass soil jar/Teflon lined cap AH26-03@9'	E239.Cl	15-Jan-2026	21-Jan-2026	365 days	7 days	✓	21-Jan-2026	28 days	0 days	✓
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-01@16'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-01@2'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-01@4.5'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-02@14'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-02@2'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-02@9'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-03@14'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-03@2'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Saturated Paste Extractables : Saturation Percentage										
Glass soil jar/Teflon lined cap AH26-03@9'	E141	15-Jan-2026	21-Jan-2026	----	----		21-Jan-2026	----	0 days	
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap AH26-01@2'	E532	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	22-Jan-2026	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap AH26-02@4'	E532	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	22-Jan-2026	7 days	1 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap AH26-03@4'	E532	15-Jan-2026	21-Jan-2026	30 days	6 days	✓	22-Jan-2026	7 days	1 days	✓
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass soil methanol vial AH26-01@4.5'	E611N	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓

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 Work Order : VA26A1045 Amendment 1
 Client : EXP Services Inc.
 Project : WCA-25016719-A0



Matrix: **Soil/Solid**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass soil methanol vial AH26-02@9'	E611N	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass soil methanol vial AH26-03@2'	E611N	15-Jan-2026	21-Jan-2026	40 days	7 days	✓	23-Jan-2026	40 days	7 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2423380	2	29	6.9	5.0	✓
Saturation Percentage	E141	2423382	1	16	6.2	5.0	✓
Moisture Content by Gravimetry	E144	2423386	3	36	8.3	5.0	✓
Chloride by IC (Saturated Paste)	E239.Cl	2423381	1	16	6.2	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2423377	2	27	7.4	5.0	✓
Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)	E442	2423383	1	16	6.2	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2425085	1	3	33.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2423378	2	26	7.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	2425063	1	10	10.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	2425954	1	10	10.0	5.0	✓
BC PHCs - EPH by GC-FID	E601A	2423385	1	10	10.0	5.0	✓
VOCs (Fuel List) by Headspace GC-MS	E611N	2425955	1	9	11.1	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)	E641A-L	2423384	1	13	7.6	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2423380	2	29	6.9	5.0	✓
Saturation Percentage	E141	2423382	2	16	12.5	10.0	✓
Moisture Content by Gravimetry	E144	2423386	3	36	8.3	5.0	✓
Chloride by IC (Saturated Paste)	E239.Cl	2423381	2	16	12.5	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2423377	4	27	14.8	10.0	✓
Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)	E442	2423383	2	16	12.5	10.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2425085	2	3	66.6	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	2423378	4	26	15.3	10.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	2425063	2	10	20.0	10.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	2425954	1	10	10.0	5.0	✓
BC PHCs - EPH by GC-FID	E601A	2423385	1	10	10.0	5.0	✓
VOCs (Fuel List) by Headspace GC-MS	E611N	2425955	1	9	11.1	5.0	✓
PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)	E641A-L	2423384	1	13	7.6	5.0	✓
Method Blanks (MB)							
Saturation Percentage	E141	2423382	1	16	6.2	5.0	✓
Moisture Content by Gravimetry	E144	2423386	3	36	8.3	5.0	✓
Chloride by IC (Saturated Paste)	E239.Cl	2423381	1	16	6.2	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2423377	2	27	7.4	5.0	✓
Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)	E442	2423383	1	16	6.2	5.0	✓
Boron-Hot Water Extractable by ICPOES	E487	2425085	1	3	33.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2423378	2	26	7.6	5.0	✓



Matrix: **Soil/Solid**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
<i>Analytical Methods</i>	<i>Method</i>	<i>QC Lot #</i>	<i>QC</i>	<i>Regular</i>	<i>Actual</i>	<i>Expected</i>	<i>Evaluation</i>
Method Blanks (MB) - Continued							
Hexavalent Chromium (Cr VI) by IC	E532	2425063	1	10	10.0	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	2425954	1	10	10.0	5.0	✔
BC PHCs - EPH by GC-FID	E601A	2423385	1	10	10.0	5.0	✔
VOCs (Fuel List) by Headspace GC-MS	E611N	2425955	1	9	11.1	5.0	✔
PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)	E641A-L	2423384	1	13	7.6	5.0	✔
Matrix Spikes (MS)							
VH and F1 by Headspace GC-FID	E581.VH+F1	2425954	1	10	10.0	5.0	✔
BC PHCs - EPH by GC-FID	E601A	2423385	1	10	10.0	5.0	✔
VOCs (Fuel List) by Headspace GC-MS	E611N	2425955	1	9	11.1	5.0	✔
PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)	E641A-L	2423384	1	13	7.6	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter (1:2 Soil:Water Extraction)	E108 ALS Environmental - Vancouver	Soil/Solid	BC Lab Manual	pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally $20 \pm 5^{\circ}\text{C}$), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at $<60^{\circ}\text{C}$) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe.
Saturation Percentage	E141 ALS Environmental - Vancouver	Soil/Solid	CSSS Ch. 15 (mod)/AER D50	Saturation Percentage (SP) is determined as the total volume of water present in a saturated paste (in mL) divided by the dry weight of the sample (in grams), expressed as a percentage.
Moisture Content by Gravimetry	E144 ALS Environmental - Vancouver	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C . Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Chloride by IC (Saturated Paste)	E239.Cl ALS Environmental - Vancouver	Soil/Solid	CSSS Ch. 15 (mod)/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining a soil extract produced by the saturated paste extraction procedure which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Vancouver	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl . Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Ca, K, Mg, and Na by CRC ICPMS (Saturated Paste, mg/L)	E442 ALS Environmental - Vancouver	Soil/Solid	CSSS CH15/EPA 6020B (mod)	A soil extract produced by the saturated paste extraction procedure is analyzed for Calcium, Magnesium, Potassium and Sodium by Collision/Reaction Cell ICPMS as per "Soil Sampling Methods of Analysis" By M Carter.
Boron-Hot Water Extractable by ICPOES	E487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
VH and F1 by Headspace GC-FID	E581.VH+F1 ALS Environmental - Vancouver	Soil/Solid	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BC PHCs - EPH by GC-FID	E601A ALS Environmental - Vancouver	Soil/Solid	BC MOE Lab Manual (EPH in Solids by GC/FID) (mod)	Sample extracts are analyzed by GC-FID for BC hydrocarbon fractions.
VOCs (Fuel List) by Headspace GC-MS	E611N ALS Environmental - Vancouver	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs in Soil/solid by Hex:Ace GC-MS (Low Level CCME)	E641A-L ALS Environmental - Vancouver	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with hexane/acetone and analyzed by GC-MS. Benzo(b+j+k)fluoranthene is reported as the arithmetic sum of Benzo(b+j)fluoranthene and Benzo(k)fluoranthene; the limit of reporting (LOR) for this sum is calculated by the root-sum-of-squares (RSS) of the component LORs (per CCME Vol. 4). Where reported, the Index of Additive Cancer Risk (IACR; unitless) and Benzo[a]pyrene toxic potency equivalents (B[a]P-TEQ; in soil concentration units) are calculated per the CCME PAH Soil Quality Guidelines fact sheet (2010) and/or AB Tier 1 using the individually measured PAH results (not pre-summed groupings). For these calculations, any included PAH that is not detected is assigned one-half of its limit of reporting (LOR).
Chloride by IC (Saturated Paste) (mg/kg)	EC239A.Cl ALS Environmental - Vancouver	Soil/Solid	CSSS Ch. 15 (mod)/EPA 300.1 (mod)	Inorganic anions are analyzed by obtaining a soil extract produced by the saturated paste extraction procedure which is then analyzed by Ion Chromatography with conductivity and/or UV detection.
Ca, K, Mg, Na by ICPMS (Saturated Paste, mg/kg)	EC442 ALS Environmental - Vancouver	Soil/Solid	CSSS CH15/EPA 6020B (mod)	A soil extract produced by the saturated paste extraction procedure is analyzed for Calcium, Magnesium, Potassium, Sodium by ICPMS.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VPH: VH-BTEX-Styrene	EC580A ALS Environmental - Vancouver	Soil/Solid	BC MOE Lab Manual (VPH in Water and Solids) (mod)	Volatile Petroleum Hydrocarbons (VPH) is calculated as follows: VPHs = Volatile Hydrocarbons (VH C6-C10) minus benzene, toluene, ethylbenzene, xylenes (BTEX) and styrene.
LEPH and HEPH: EPH-PAH	EC600A ALS Environmental - Vancouver	Soil/Solid	BC MOE Lab Manual (LEPH and HEPH)	Light Extractable Petroleum Hydrocarbons (LEPH) and Heavy Extractable Petroleum Hydrocarbons (HEPH) are calculated as follows: LEPH = Extractable Petroleum Hydrocarbons (EPH10-19) minus Naphthalene and Phenanthrene; HEPH = Extractable Petroleum Hydrocarbons (EPH19-32) minus Benz(a)anthracene, Benzo(b+j)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Pyrene.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Leach 1:2 Soil:Water for pH/EC	EP108 ALS Environmental - Vancouver	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Digestion for Metals and Mercury	EP440 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Boron-Hot Water Extractable	EP487 ALS Environmental - Waterloo	Soil/Solid	HW EXTR, EPA 6010B	A dried solid sample is extracted with weak calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES. Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011)
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 ALS Environmental - Waterloo	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Vancouver	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Vancouver	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.

QUALITY CONTROL REPORT

Work Order	: VA26A1045		
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby BC Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: WCA-25016719-A0	Date Samples Received	: 15-Jan-2026 22:30
PO	: ----	Date Analysis Commenced	: 20-Jan-2026
C-O-C number	: 25-0013864/25-0014143	Issue Date	: 27-Jan-2026 15:53
Sampler	: NB		
Site	: ----		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 16		
No. of samples analysed	: 16		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- @ReferenceMaterial!
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Jon Fisher	Laboratory Manager - Environmental	Waterloo Metals, Waterloo, Ontario
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
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Yimeng Cao	Analyst- General	Vancouver Organics, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

- Anonymous=Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number=Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO=Data Quality Objective.
- LOR=Limit of Reporting (detection limit).
- RPD=Relative Percent Difference
- # =Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2423380)											
VA26A1045-003	AH26-01@9'	pH (1:2 soil:water)	----	E108	0.10	pH units	7.66	7.63	0.4 %	5%	---
Physical Tests(QC Lot: 2423386)											
VA26A0960-001	Anonymous	Moisture	----	E144	0.25	%	14.1	15.0	5.69 %	20%	---
Physical Tests(QC Lot: 2423943)											
VA26A1045-011	AH26-03@4'	pH (1:2 soil:water)	----	E108	0.10	pH units	7.46	7.50	0.5 %	5%	---
Physical Tests(QC Lot: 2423944)											
VA26A1045-011	AH26-03@4'	Moisture	----	E144	0.25	%	19.3	18.3	5.59 %	20%	---
Physical Tests(QC Lot: 2427394)											
VA26A0799-014	Anonymous	Moisture	----	E144	0.25	%	18.0	20.1	11.3 %	20%	---
Saturated Paste Extractables(QC Lot: 2423381)											
VA26A1045-002	AH26-01@4.5'	Chloride, soluble ion content	16887-00-6	E239.Cl	10	mg/L	23	36	13	Diff <2x LOR	---
Saturated Paste Extractables(QC Lot: 2423382)											
VA26A1045-002	AH26-01@4.5'	% Saturation	----	E141	1.0	%	62.7	56.4	10.5 %	20%	---
Saturated Paste Extractables(QC Lot: 2423383)											
VA26A1045-002	AH26-01@4.5'	Sodium, soluble ion content	17341-25-2	E442	2.0	mg/L	22.4	22.9	2.01 %	30%	---
Metals(QC Lot: 2423377)											
VA26A1045-003	AH26-01@9'	Aluminum	7429-90-5	E440	50	mg/kg	56200	53100	5.69 %	40%	---
		Antimony	7440-36-0	E440	0.10	mg/kg	0.53	0.53	0.002	Diff <2x LOR	---
		Arsenic	7440-38-2	E440	0.10	mg/kg	12.8	12.2	5.34 %	30%	---
		Barium	7440-39-3	E440	0.50	mg/kg	250	239	4.35 %	40%	---
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.69	0.65	5.83 %	30%	---
		Bismuth	7440-69-9	E440	0.20	mg/kg	0.22	0.21	0.01	Diff <2x LOR	---
		Boron	7440-42-8	E440	5.0	mg/kg	6.3	6.9	0.6	Diff <2x LOR	---
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.098	0.092	0.006	Diff <2x LOR	---
		Calcium	7440-70-2	E440	50	mg/kg	8010	7640	4.72 %	30%	---
		Chromium	7440-47-3	E440	0.50	mg/kg	66.2	62.8	5.22 %	30%	---
		Cobalt	7440-48-4	E440	0.10	mg/kg	26.0	23.4	10.6 %	30%	---
		Copper	7440-50-8	E440	0.50	mg/kg	70.7	64.7	8.86 %	30%	---
		Iron	7439-89-6	E440	50	mg/kg	55600	51100	8.52 %	30%	---
		Lead	7439-92-1	E440	0.50	mg/kg	12.0	11.2	7.19 %	40%	---
		Lithium	7439-93-2	E440	2.0	mg/kg	29.1	27.0	7.39 %	30%	---
		Magnesium	7439-95-4	E440	20	mg/kg	19200	17500	9.19 %	30%	---
		Manganese	7439-96-5	E440	1.0	mg/kg	731	660	10.3 %	30%	---
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.88	0.87	0.220 %	40%	---
		Nickel	7440-02-0	E440	0.50	mg/kg	55.0	50.5	8.63 %	30%	---



Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals(QC Lot: 2423377)											
		Phosphorus	7723-14-0	E440	50	mg/kg	343	355	3.40 %	30%	---
		Potassium	7440-09-7	E440	100	mg/kg	4610	4330	6.35 %	40%	---
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Sodium	7440-23-5	E440	50	mg/kg	449	447	0.458 %	40%	---
		Strontium	7440-24-6	E440	0.50	mg/kg	105	103	2.24 %	40%	---
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	---
		Thallium	7440-28-0	E440	0.050	mg/kg	0.213	0.203	0.010	Diff <2x LOR	---
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	---
		Titanium	7440-32-6	E440	1.0	mg/kg	1820	1850	2.11 %	40%	---
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Uranium	7440-61-1	E440	0.050	mg/kg	0.920	0.844	8.69 %	30%	---
		Vanadium	7440-62-2	E440	0.20	mg/kg	123	119	2.98 %	30%	---
		Zinc	7440-66-6	E440	2.0	mg/kg	136	123	9.58 %	30%	---
		Zirconium	7440-67-7	E440	1.0	mg/kg	5.7	5.9	0.2	Diff <2x LOR	---
Metals(QC Lot: 2423378)											
VA26A1045-003	AH26-01@9'	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	0.0621	0.0121	Diff <2x LOR	---
Metals(QC Lot: 2423941)											
VA26A1045-011	AH26-03@4'	Aluminum	7429-90-5	E440	50	mg/kg	19500	22300	13.2 %	40%	---
		Antimony	7440-36-0	E440	0.10	mg/kg	0.22	0.26	0.04	Diff <2x LOR	---
		Arsenic	7440-38-2	E440	0.10	mg/kg	8.44	9.66	13.5 %	30%	---
		Barium	7440-39-3	E440	0.50	mg/kg	74.8	84.2	11.8 %	40%	---
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.25	0.27	0.02	Diff <2x LOR	---
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Boron	7440-42-8	E440	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	---
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.032	0.030	0.001	Diff <2x LOR	---
		Calcium	7440-70-2	E440	50	mg/kg	4190	4340	3.58 %	30%	---
		Chromium	7440-47-3	E440	0.50	mg/kg	22.5	27.5	20.2 %	30%	---
		Cobalt	7440-48-4	E440	0.10	mg/kg	7.54	9.20	19.9 %	30%	---
		Copper	7440-50-8	E440	0.50	mg/kg	16.4	20.2	20.4 %	30%	---
		Iron	7439-89-6	E440	50	mg/kg	21300	23300	8.74 %	30%	---
		Lead	7439-92-1	E440	0.50	mg/kg	3.19	3.83	18.1 %	40%	---
		Lithium	7439-93-2	E440	2.0	mg/kg	8.3	8.5	0.3	Diff <2x LOR	---
		Magnesium	7439-95-4	E440	20	mg/kg	5380	6310	15.9 %	30%	---
		Manganese	7439-96-5	E440	1.0	mg/kg	310	360	15.0 %	30%	---
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.34	0.39	0.04	Diff <2x LOR	---
		Nickel	7440-02-0	E440	0.50	mg/kg	14.7	17.1	15.2 %	30%	---



Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals(QC Lot: 2423941)											
		Phosphorus	7723-14-0	E440	50	mg/kg	347	341	1.82 %	30%	---
		Potassium	7440-09-7	E440	100	mg/kg	1030	1280	21.4 %	40%	---
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	---
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	---
		Sodium	7440-23-5	E440	50	mg/kg	320	325	1.51 %	40%	---
		Strontium	7440-24-6	E440	0.50	mg/kg	41.1	43.2	5.13 %	40%	---
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	---
		Thallium	7440-28-0	E440	0.050	mg/kg	0.054	0.064	0.010	Diff <2x LOR	---
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	---
		Titanium	7440-32-6	E440	1.0	mg/kg	1120	1240	10.8 %	40%	---
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	---
		Uranium	7440-61-1	E440	0.050	mg/kg	0.566	0.647	13.4 %	30%	---
		Vanadium	7440-62-2	E440	0.20	mg/kg	66.6	72.5	8.50 %	30%	---
		Zinc	7440-66-6	E440	2.0	mg/kg	35.0	40.0	13.3 %	30%	---
		Zirconium	7440-67-7	E440	1.0	mg/kg	3.1	3.9	0.8	Diff <2x LOR	---
Metals(QC Lot: 2423942)											
VA26A1045-011	AH26-03@4'	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	---
Metals(QC Lot: 2425085)											
VA26A1045-011	AH26-03@4'	Boron, hot water soluble	7440-42-8	E487	0.10	mg/kg	<0.10	<0.10	0.0004	Diff <2x LOR	---
Speciated Metals(QC Lot: 2425063)											
VA26A0672-009	Anonymous	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	1.73	2.21	24.1 %	35%	---
Volatile Organic Compounds(QC Lot: 2425955)											
VA26A1045-002	AH26-01@4.5'	Benzene	71-43-2	E611N	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	---
		Bromodichloromethane	75-27-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Bromoform	75-25-2	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Butadiene, 1,3-	106-99-0	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Carbon tetrachloride	56-23-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chlorobenzene	108-90-7	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chloroethane	75-00-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chloroform	67-66-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Chloromethane	74-87-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Cymene, p-	99-87-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Decane, n-	124-18-5	E611N	4.00	mg/kg	<4.00	<4.00	0	Diff <2x LOR	---
		Dibromochloromethane	124-48-1	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dibromoethane, 1,2-	106-93-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorobenzene, 1,2-	95-50-1	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichlorobenzene, 1,3-	541-73-1	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---



Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds(QC Lot: 2425955)											
		Dichlorobenzene, 1,4-	106-46-7	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethane, 1,1-	75-34-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethane, 1,2-	107-06-2	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, 1,1-	75-35-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, cis-1,2-	156-59-2	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloroethylene, trans-1,2-	156-60-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloromethane	75-09-2	E611N	0.045	mg/kg	<0.045	<0.045	0	Diff <2x LOR	---
		Dichloropropane, 1,2-	78-87-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Ethylbenzene	100-41-4	E611N	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	---
		Hexane, n-	110-54-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Isopropylbenzene	98-82-8	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.040	mg/kg	<0.040	<0.040	0	Diff <2x LOR	---
		Methylcyclohexane	108-87-2	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Propylbenzene, n-	103-65-1	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Styrene	100-42-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Tetrachloroethylene	127-18-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Toluene	108-88-3	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trichloroethane, 1,1,1-	71-55-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trichloroethane, 1,1,2-	79-00-5	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trichloroethylene	79-01-6	E611N	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Trichlorofluoromethane	75-69-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trimethylbenzene, 1,2,4-	95-63-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Trimethylbenzene, 1,3,5-	108-67-8	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Vinyl chloride	75-01-4	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Xylene, m+p-	179601-23-1	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
		Xylene, o-	95-47-6	E611N	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	---
Hydrocarbons(QC Lot: 2423385)											
VA26A1045-003	AH26-01@9'	EPH (C10-C19)	----	E601A	200	mg/kg	<200	<200	0	Diff <2x LOR	---
		EPH (C19-C32)	----	E601A	200	mg/kg	<200	<200	0	Diff <2x LOR	---
Hydrocarbons(QC Lot: 2425954)											
VA26A1045-002	AH26-01@4.5'	VHs (C6-C10)	----	E581.VH+F1	10	mg/kg	<10	<10	0	Diff <2x LOR	---
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)											
VA26A1045-003	AH26-01@9'	Acenaphthene	83-32-9	E641A-L	0.0050	mg/kg	0.0589	0.0546	7.61 %	50%	---



Sub-Matrix: Soil

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)											
		Acenaphthylene	208-96-8	E641A-L	0.0050	mg/kg	0.0060	0.0088	0.0028	Diff <2x LOR	---
		Acridine	260-94-6	E641A-L	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---
		Anthracene	120-12-7	E641A-L	0.0040	mg/kg	0.135	0.143	5.64 %	50%	---
		Benz(a)anthracene	56-55-3	E641A-L	0.010	mg/kg	0.127	0.136	6.84 %	50%	---
		Benzo(a)pyrene	50-32-8	E641A-L	0.010	mg/kg	0.121	0.138	13.3 %	50%	---
		Benzo(b+j)fluoranthene	n/a	E641A-L	0.010	mg/kg	0.114	0.126	9.77 %	50%	---
		Benzo(g,h,i)perylene	191-24-2	E641A-L	0.010	mg/kg	0.079	0.091	14.0 %	50%	---
		Benzo(k)fluoranthene	207-08-9	E641A-L	0.010	mg/kg	0.049	0.062	23.2 %	50%	---
		Chrysene	218-01-9	E641A-L	0.010	mg/kg	0.138	0.158	13.3 %	50%	---
		Dibenz(a,h)anthracene	53-70-3	E641A-L	0.0050	mg/kg	0.0159	0.0200	0.0041	Diff <2x LOR	---
		Fluoranthene	206-44-0	E641A-L	0.010	mg/kg	0.375	0.402	7.11 %	50%	---
		Fluorene	86-73-7	E641A-L	0.010	mg/kg	0.069	0.060	15.0 %	50%	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L	0.010	mg/kg	0.081	0.093	14.0 %	50%	---
		Methylnaphthalene, 1-	90-12-0	E641A-L	0.010	mg/kg	0.020	0.011	0.008	Diff <2x LOR	---
		Methylnaphthalene, 2-	91-57-6	E641A-L	0.010	mg/kg	0.026	0.014	0.012	Diff <2x LOR	---
		Naphthalene	91-20-3	E641A-L	0.010	mg/kg	0.060	0.029	69.4 %	50%	DUP-H
		Phenanthrene	85-01-8	E641A-L	0.010	mg/kg	0.376	0.358	4.92 %	50%	---
		Pyrene	129-00-0	E641A-L	0.010	mg/kg	0.315	0.339	7.44 %	50%	---
		Quinoline	91-22-5	E641A-L	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	---

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts.

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2423380)						
pH (1:2 soil:water)	----	E108	----	pH units	----	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2423386)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests(QC Lot: 2423943)						
pH (1:2 soil:water)	----	E108	----	pH units	----	----
Physical Tests(QC Lot: 2423944)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests(QC Lot: 2427394)						
Moisture	----	E144	0.25	%	<0.25	----
Saturated Paste Extractables(QC Lot: 2423381)						
Chloride, soluble ion content	16887-00-6	E239.Cl	10	mg/L	<10	----
Saturated Paste Extractables(QC Lot: 2423382)						
% Saturation	----	E141	1	%	50.0	----
Saturated Paste Extractables(QC Lot: 2423383)						
Sodium, soluble ion content	17341-25-2	E442	2	mg/L	<2.0	----
Metals(QC Lot: 2423377)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2423377)						
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals(QC Lot: 2423378)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals(QC Lot: 2423941)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals(QC Lot: 2423941)						
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals(QC Lot: 2423942)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals(QC Lot: 2425085)						
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	<0.10	----
Speciated Metals(QC Lot: 2425063)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds(QC Lot: 2425955)						
Benzene	71-43-2	E611N	0.005	mg/kg	<0.0050	----
Bromodichloromethane	75-27-4	E611N	0.05	mg/kg	<0.050	----
Bromoform	75-25-2	E611N	0.05	mg/kg	<0.050	----
Butadiene, 1,3-	106-99-0	E611N	0.05	mg/kg	<0.050	----
Carbon tetrachloride	56-23-5	E611N	0.05	mg/kg	<0.050	----
Chlorobenzene	108-90-7	E611N	0.05	mg/kg	<0.050	----
Chloroethane	75-00-3	E611N	0.05	mg/kg	<0.050	----
Chloroform	67-66-3	E611N	0.05	mg/kg	<0.050	----
Chloromethane	74-87-3	E611N	0.05	mg/kg	<0.050	----
Cymene, p-	99-87-6	E611N	0.05	mg/kg	<0.050	----
Decane, n-	124-18-5	E611N	0.05	mg/kg	<0.050	----
Dibromochloromethane	124-48-1	E611N	0.05	mg/kg	<0.050	----
Dibromoethane, 1,2-	106-93-4	E611N	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,2-	95-50-1	E611N	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,3-	541-73-1	E611N	0.05	mg/kg	<0.050	----
Dichlorobenzene, 1,4-	106-46-7	E611N	0.05	mg/kg	<0.050	----
Dichloroethane, 1,1-	75-34-3	E611N	0.05	mg/kg	<0.050	----
Dichloroethane, 1,2-	107-06-2	E611N	0.05	mg/kg	<0.050	----
Dichloroethylene, 1,1-	75-35-4	E611N	0.05	mg/kg	<0.050	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds(QC Lot: 2425955)						
Dichloroethylene, cis-1,2-	156-59-2	E611N	0.05	mg/kg	<0.050	----
Dichloroethylene, trans-1,2-	156-60-5	E611N	0.05	mg/kg	<0.050	----
Dichloromethane	75-09-2	E611N	0.045	mg/kg	<0.045	----
Dichloropropane, 1,2-	78-87-5	E611N	0.05	mg/kg	<0.050	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N	0.05	mg/kg	<0.050	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N	0.05	mg/kg	<0.050	----
Ethylbenzene	100-41-4	E611N	0.015	mg/kg	<0.015	----
Hexane, n-	110-54-3	E611N	0.05	mg/kg	<0.050	----
Isopropylbenzene	98-82-8	E611N	0.05	mg/kg	<0.050	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.04	mg/kg	<0.040	----
Methylcyclohexane	108-87-2	E611N	0.05	mg/kg	<0.050	----
Propylbenzene, n-	103-65-1	E611N	0.05	mg/kg	<0.050	----
Styrene	100-42-5	E611N	0.05	mg/kg	<0.050	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	0.05	mg/kg	<0.050	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.05	mg/kg	<0.050	----
Tetrachloroethylene	127-18-4	E611N	0.05	mg/kg	<0.050	----
Toluene	108-88-3	E611N	0.05	mg/kg	<0.050	----
Trichloroethane, 1,1,1-	71-55-6	E611N	0.05	mg/kg	<0.050	----
Trichloroethane, 1,1,2-	79-00-5	E611N	0.05	mg/kg	<0.050	----
Trichloroethylene	79-01-6	E611N	0.01	mg/kg	<0.010	----
Trichlorofluoromethane	75-69-4	E611N	0.05	mg/kg	<0.050	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N	0.05	mg/kg	<0.050	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N	0.05	mg/kg	<0.050	----
Vinyl chloride	75-01-4	E611N	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611N	0.05	mg/kg	<0.050	----
Xylene, o-	95-47-6	E611N	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)						
Acenaphthene	83-32-9	E641A-L	0.005	mg/kg	<0.0050	----
Acenaphthylene	208-96-8	E641A-L	0.005	mg/kg	<0.0050	----
Acridine	260-94-6	E641A-L	0.01	mg/kg	<0.010	----
Anthracene	120-12-7	E641A-L	0.004	mg/kg	<0.0040	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	mg/kg	<0.010	----
Benzo(a)pyrene	50-32-8	E641A-L	0.01	mg/kg	<0.010	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	mg/kg	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	mg/kg	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	mg/kg	<0.010	----
Chrysene	218-01-9	E641A-L	0.01	mg/kg	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	mg/kg	<0.0050	----



Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)						
Fluoranthene	206-44-0	E641A-L	0.01	mg/kg	<0.010	----
Fluorene	86-73-7	E641A-L	0.01	mg/kg	<0.010	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L	0.01	mg/kg	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	mg/kg	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	mg/kg	<0.010	----
Naphthalene	91-20-3	E641A-L	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A-L	0.01	mg/kg	<0.010	----
Pyrene	129-00-0	E641A-L	0.01	mg/kg	<0.010	----
Quinoline	91-22-5	E641A-L	0.01	mg/kg	<0.010	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike Target Concentration	Recovery (%) LCS	Recovery Limits (%)		Qualifier
Analyte	CAS Number	Method	LOR	Unit			Low	High	
Physical Tests(QC Lot: 2423380)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	101	95.0	105	----
Physical Tests(QC Lot: 2423386)									
Moisture	----	E144	0.25	%	50 %	99.3	90.0	110	----
Physical Tests(QC Lot: 2423943)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	100	95.0	105	----
Physical Tests(QC Lot: 2423944)									
Moisture	----	E144	0.25	%	50 %	101	90.0	110	----
Physical Tests(QC Lot: 2427394)									
Moisture	----	E144	0.25	%	50 %	99.2	90.0	110	----
Saturated Paste Extractables(QC Lot: 2423381)									
Chloride, soluble ion content	16887-00-6	E239.Cl	10	mg/L	100 mg/L	101	80.0	120	----
Saturated Paste Extractables(QC Lot: 2423382)									
% Saturation	----	E141	1	%	100 %	101	80.0	120	----
Saturated Paste Extractables(QC Lot: 2423383)									
Sodium, soluble ion content	17341-25-2	E442	2	mg/L	50 mg/L	109	80.0	120	----
Metals(QC Lot: 2423377)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	104	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	109	80.0	120	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2423377)									
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	106	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	98.8	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	95.7	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	98.8	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	105	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	101	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	102	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	101	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	103	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	103	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	95.4	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	106	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	103	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	107	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	102	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	109	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	103	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	106	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	108	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	101	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	111	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	101	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	101	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	106	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	102	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	102	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	99.0	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	103	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	106	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	103	80.0	120	----
Metals(QC Lot: 2423378)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	111	80.0	120	----
Metals(QC Lot: 2423941)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	106	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	106	80.0	120	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals(QC Lot: 2423941)									
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	106	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	102	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	97.7	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	101	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	100	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	103	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	104	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	106	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	105	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	104	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	108	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	102	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	104	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	114	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	106	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	102	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	103	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	108	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	99.8	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	104	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	101	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	103	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	104	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	110	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	106	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	106	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	98.4	80.0	120	----
Metals(QC Lot: 2423942)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	105	80.0	120	----
Metals(QC Lot: 2425085)									
Boron, hot water soluble	7440-42-8	E487	0.1	mg/kg	2 mg/kg	103	70.0	130	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Speciated Metals(QC Lot: 2425063)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	96.3	80.0	120	----
Volatile Organic Compounds(QC Lot: 2425955)									
Benzene	71-43-2	E611N	0.005	mg/kg	2.5 mg/kg	99.0	70.0	130	----
Bromodichloromethane	75-27-4	E611N	0.05	mg/kg	2.5 mg/kg	89.9	70.0	130	----
Bromoform	75-25-2	E611N	0.05	mg/kg	2.5 mg/kg	105	70.0	130	----
Butadiene, 1,3-	106-99-0	E611N	0.05	mg/kg	2.5 mg/kg	79.0	60.0	140	----
Carbon tetrachloride	56-23-5	E611N	0.05	mg/kg	2.5 mg/kg	99.1	70.0	130	----
Chlorobenzene	108-90-7	E611N	0.05	mg/kg	2.5 mg/kg	104	70.0	130	----
Chloroethane	75-00-3	E611N	0.05	mg/kg	2.5 mg/kg	94.3	60.0	140	----
Chloroform	67-66-3	E611N	0.05	mg/kg	2.5 mg/kg	97.8	70.0	130	----
Chloromethane	74-87-3	E611N	0.05	mg/kg	2.5 mg/kg	101	60.0	140	----
Cymene, p-	99-87-6	E611N	0.05	mg/kg	2.5 mg/kg	95.0	70.0	130	----
Decane, n-	124-18-5	E611N	0.05	mg/kg	2.5 mg/kg	115	70.0	130	----
Dibromochloromethane	124-48-1	E611N	0.05	mg/kg	2.5 mg/kg	104	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611N	0.05	mg/kg	2.5 mg/kg	99.7	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611N	0.05	mg/kg	2.5 mg/kg	106	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611N	0.05	mg/kg	2.5 mg/kg	103	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611N	0.05	mg/kg	2.5 mg/kg	103	70.0	130	----
Dichloroethane, 1,1-	75-34-3	E611N	0.05	mg/kg	2.5 mg/kg	97.0	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611N	0.05	mg/kg	2.5 mg/kg	87.0	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611N	0.05	mg/kg	2.5 mg/kg	88.8	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611N	0.05	mg/kg	2.5 mg/kg	90.3	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611N	0.05	mg/kg	2.5 mg/kg	86.8	70.0	130	----
Dichloromethane	75-09-2	E611N	0.045	mg/kg	2.5 mg/kg	96.8	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611N	0.05	mg/kg	2.5 mg/kg	96.7	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N	0.05	mg/kg	2.5 mg/kg	80.0	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N	0.05	mg/kg	2.5 mg/kg	88.9	70.0	130	----
Ethylbenzene	100-41-4	E611N	0.015	mg/kg	2.5 mg/kg	105	70.0	130	----
Hexane, n-	110-54-3	E611N	0.05	mg/kg	2.5 mg/kg	88.4	70.0	130	----
Isopropylbenzene	98-82-8	E611N	0.05	mg/kg	2.5 mg/kg	110	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.04	mg/kg	2.5 mg/kg	100	70.0	130	----
Methylcyclohexane	108-87-2	E611N	0.05	mg/kg	2.5 mg/kg	103	70.0	130	----
Propylbenzene, n-	103-65-1	E611N	0.05	mg/kg	2.5 mg/kg	109	70.0	130	----
Styrene	100-42-5	E611N	0.05	mg/kg	2.5 mg/kg	103	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	0.05	mg/kg	2.5 mg/kg	108	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.05	mg/kg	2.5 mg/kg	96.1	70.0	130	----
Tetrachloroethylene	127-18-4	E611N	0.05	mg/kg	2.5 mg/kg	102	70.0	130	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds(QC Lot: 2425955)									
Toluene	108-88-3	E611N	0.05	mg/kg	2.5 mg/kg	102	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611N	0.05	mg/kg	2.5 mg/kg	98.8	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611N	0.05	mg/kg	2.5 mg/kg	99.7	70.0	130	----
Trichloroethylene	79-01-6	E611N	0.01	mg/kg	2.5 mg/kg	101	70.0	130	----
Trichlorofluoromethane	75-69-4	E611N	0.05	mg/kg	2.5 mg/kg	103	60.0	140	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N	0.05	mg/kg	2.5 mg/kg	103	70.0	130	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N	0.05	mg/kg	2.5 mg/kg	101	70.0	130	----
Vinyl chloride	75-01-4	E611N	0.05	mg/kg	2.5 mg/kg	97.1	60.0	140	----
Xylene, m+p-	179601-23-1	E611N	0.05	mg/kg	5 mg/kg	108	70.0	130	----
Xylene, o-	95-47-6	E611N	0.05	mg/kg	2.5 mg/kg	108	70.0	130	----
Volatile Organic Compounds Surrogates(QC Lot: 2425955)									
Bromofluorobenzene, 4-	460-00-4	E611N	0.1	mg/kg	0.3125 mg/kg	95.4	70	130	----
Difluorobenzene, 1,4-	540-36-3	E611N	0.1	mg/kg	0.3125 mg/kg	93.1	70	130	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)									
Acenaphthene	83-32-9	E641A-L	0.005	mg/kg	0.5 mg/kg	103	60.0	130	----
Acenaphthylene	208-96-8	E641A-L	0.005	mg/kg	0.5 mg/kg	100	60.0	130	----
Acridine	260-94-6	E641A-L	0.01	mg/kg	0.5 mg/kg	100	60.0	130	----
Anthracene	120-12-7	E641A-L	0.004	mg/kg	0.5 mg/kg	106	60.0	130	----
Benz(a)anthracene	56-55-3	E641A-L	0.01	mg/kg	0.5 mg/kg	108	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A-L	0.01	mg/kg	0.5 mg/kg	102	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A-L	0.01	mg/kg	0.5 mg/kg	108	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A-L	0.01	mg/kg	0.5 mg/kg	107	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A-L	0.01	mg/kg	0.5 mg/kg	102	60.0	130	----
Chrysene	218-01-9	E641A-L	0.01	mg/kg	0.5 mg/kg	106	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A-L	0.005	mg/kg	0.5 mg/kg	109	60.0	130	----
Fluoranthene	206-44-0	E641A-L	0.01	mg/kg	0.5 mg/kg	103	60.0	130	----
Fluorene	86-73-7	E641A-L	0.01	mg/kg	0.5 mg/kg	97.7	60.0	130	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L	0.01	mg/kg	0.5 mg/kg	107	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A-L	0.01	mg/kg	0.5 mg/kg	88.9	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A-L	0.01	mg/kg	0.5 mg/kg	96.7	60.0	130	----
Naphthalene	91-20-3	E641A-L	0.01	mg/kg	0.5 mg/kg	87.1	50.0	130	----
Phenanthrene	85-01-8	E641A-L	0.01	mg/kg	0.5 mg/kg	107	60.0	130	----
Pyrene	129-00-0	E641A-L	0.01	mg/kg	0.5 mg/kg	104	60.0	130	----
Quinoline	91-22-5	E641A-L	0.01	mg/kg	0.5 mg/kg	96.9	60.0	130	----
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2423384)									
Acridine-d9	34749-75-2	E641A-L	0.1	mg/kg	0.375 mg/kg	101	60	130	----
Chrysene-d12	1719-03-5	E641A-L	0.1	mg/kg	0.375 mg/kg	113	60	130	----



Sub-Matrix: Soil

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2423384)									
Naphthalene-d8	1146-65-2	E641A-L	0.1	mg/kg	0.375 mg/kg	103	50	130	---
Phenanthrene-d10	1517-22-2	E641A-L	0.1	mg/kg	0.375 mg/kg	107	60	130	---

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

Sub-Matrix: Soil

					Matrix Spike (MS) Report				
					Spike		Recovery (%)	Recovery (%)	
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High
Volatile Organic Compounds(QC Lot: 2425955)									
VA26A1045-010	AH26-03@2'	Benzene	71-43-2	E611N	2.23 mg/kg	2.094 mg/kg	107	60.0	140
		Bromodichloromethane	75-27-4	E611N	1.99 mg/kg	2.094 mg/kg	95.2	60.0	140
		Bromoform	75-25-2	E611N	2.27 mg/kg	2.094 mg/kg	108	60.0	140
		Butadiene, 1,3-	106-99-0	E611N	1.93 mg/kg	2.094 mg/kg	92.3	60.0	140
		Carbon tetrachloride	56-23-5	E611N	2.21 mg/kg	2.094 mg/kg	106	60.0	140
		Chlorobenzene	108-90-7	E611N	2.33 mg/kg	2.094 mg/kg	111	60.0	140
		Chloroethane	75-00-3	E611N	2.16 mg/kg	2.094 mg/kg	103	60.0	140
		Chloroform	67-66-3	E611N	2.18 mg/kg	2.094 mg/kg	104	60.0	140
		Chloromethane	74-87-3	E611N	2.34 mg/kg	2.094 mg/kg	112	60.0	140
		Cymene, p-	99-87-6	E611N	2.18 mg/kg	2.094 mg/kg	104	60.0	140
		Decane, n-	124-18-5	E611N	2.02 mg/kg	2.094 mg/kg	96.2	60.0	140
		Dibromochloromethane	124-48-1	E611N	2.33 mg/kg	2.094 mg/kg	111	60.0	140
		Dibromoethane, 1,2-	106-93-4	E611N	2.25 mg/kg	2.094 mg/kg	107	60.0	140
		Dichlorobenzene, 1,2-	95-50-1	E611N	2.34 mg/kg	2.094 mg/kg	111	60.0	140
		Dichlorobenzene, 1,3-	541-73-1	E611N	2.32 mg/kg	2.094 mg/kg	111	60.0	140
		Dichlorobenzene, 1,4-	106-46-7	E611N	2.35 mg/kg	2.094 mg/kg	112	60.0	140
		Dichloroethane, 1,1-	75-34-3	E611N	2.19 mg/kg	2.094 mg/kg	105	60.0	140
		Dichloroethane, 1,2-	107-06-2	E611N	1.95 mg/kg	2.094 mg/kg	93.1	60.0	140
		Dichloroethylene, 1,1-	75-35-4	E611N	2.05 mg/kg	2.094 mg/kg	97.8	60.0	140
		Dichloroethylene, cis-1,2-	156-59-2	E611N	2.04 mg/kg	2.094 mg/kg	97.6	60.0	140
		Dichloroethylene, trans-1,2-	156-60-5	E611N	2.08 mg/kg	2.094 mg/kg	99.3	60.0	140
		Dichloromethane	75-09-2	E611N	2.20 mg/kg	2.094 mg/kg	105	60.0	140



Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Volatile Organic Compounds(QC Lot: 2425955)										
		Dichloropropane, 1,2-	78-87-5	E611N	2.20 mg/kg	2.094 mg/kg	105	60.0	140	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611N	1.98 mg/kg	2.094 mg/kg	94.5	60.0	140	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611N	2.22 mg/kg	2.094 mg/kg	106	60.0	140	---
		Ethylbenzene	100-41-4	E611N	2.40 mg/kg	2.094 mg/kg	114	60.0	140	---
		Hexane, n-	110-54-3	E611N	2.11 mg/kg	2.094 mg/kg	101	60.0	140	---
		Isopropylbenzene	98-82-8	E611N	2.42 mg/kg	2.094 mg/kg	116	60.0	140	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	2.25 mg/kg	2.094 mg/kg	108	60.0	140	---
		Methylcyclohexane	108-87-2	E611N	2.33 mg/kg	2.094 mg/kg	111	60.0	140	---
		Propylbenzene, n-	103-65-1	E611N	2.53 mg/kg	2.094 mg/kg	121	60.0	140	---
		Styrene	100-42-5	E611N	2.32 mg/kg	2.094 mg/kg	111	60.0	140	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	2.38 mg/kg	2.094 mg/kg	114	60.0	140	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	2.07 mg/kg	2.094 mg/kg	98.8	60.0	140	---
		Tetrachloroethylene	127-18-4	E611N	2.36 mg/kg	2.094 mg/kg	113	60.0	140	---
		Toluene	108-88-3	E611N	2.32 mg/kg	2.094 mg/kg	111	60.0	140	---
		Trichloroethane, 1,1,1-	71-55-6	E611N	2.21 mg/kg	2.094 mg/kg	105	60.0	140	---
		Trichloroethane, 1,1,2-	79-00-5	E611N	2.21 mg/kg	2.094 mg/kg	106	60.0	140	---
		Trichloroethylene	79-01-6	E611N	2.33 mg/kg	2.094 mg/kg	111	60.0	140	---
		Trichlorofluoromethane	75-69-4	E611N	2.32 mg/kg	2.094 mg/kg	111	60.0	140	---
		Trimethylbenzene, 1,2,4-	95-63-6	E611N	2.36 mg/kg	2.094 mg/kg	113	60.0	140	---
		Trimethylbenzene, 1,3,5-	108-67-8	E611N	2.29 mg/kg	2.094 mg/kg	109	60.0	140	---
		Vinyl chloride	75-01-4	E611N	2.28 mg/kg	2.094 mg/kg	109	60.0	140	---
		Xylene, m+p-	179601-23-1	E611N	4.90 mg/kg	4.189 mg/kg	117	60.0	140	---
		Xylene, o-	95-47-6	E611N	2.42 mg/kg	2.094 mg/kg	116	60.0	140	---
Hydrocarbons(QC Lot: 2423385)										
VA26A1045-008	AH26-02@9'	EPH (C10-C19)	----	E601A	710 mg/kg	786.1 mg/kg	89.8	60.0	140	---
		EPH (C19-C32)	----	E601A	340 mg/kg	399.2 mg/kg	85.3	60.0	140	---
Hydrocarbons(QC Lot: 2425954)										
VA26A1045-008	AH26-02@9'	VHs (C6-C10)	----	E581.VH+F1	163 mg/kg	135.7 mg/kg	120	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2423385)										
		Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A	334 mg/kg	389.8 mg/kg	85.7	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2425954)										
		Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1	19.2 mg/kg	24.67 mg/kg	77.7	70.0	130	---
Volatile Organic Compounds Surrogates(QC Lot: 2425955)										
		Bromofluorobenzene, 4-	460-00-4	E611N	0.18 mg/kg	0.2094 mg/kg	85.9	70.0	130	---
		Difluorobenzene, 1,4-	540-36-3	E611N	0.18 mg/kg	0.2094 mg/kg	85.4	70.0	130	---
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)										
VA26A0960-004	Anonymous	Acenaphthene	83-32-9	E641A-L	ND	----	ND	50.0	140	---



Sub-Matrix: Soil

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Polycyclic Aromatic Hydrocarbons(QC Lot: 2423384)										
		Acenaphthylene	208-96-8	E641A-L	0.349 mg/kg	0.3586 mg/kg	97.3	50.0	140	---
		Acridine	260-94-6	E641A-L	0.388 mg/kg	0.3586 mg/kg	108	50.0	140	---
		Anthracene	120-12-7	E641A-L	ND	----	ND	50.0	140	---
		Benz(a)anthracene	56-55-3	E641A-L	ND	----	ND	50.0	140	---
		Benzo(a)pyrene	50-32-8	E641A-L	ND	----	ND	50.0	140	---
		Benzo(b+j)fluoranthene	n/a	E641A-L	ND	----	ND	50.0	140	---
		Benzo(g,h,i)perylene	191-24-2	E641A-L	ND	----	ND	50.0	140	---
		Benzo(k)fluoranthene	207-08-9	E641A-L	ND	----	ND	50.0	140	---
		Chrysene	218-01-9	E641A-L	ND	----	ND	50.0	140	---
		Dibenz(a,h)anthracene	53-70-3	E641A-L	ND	----	ND	50.0	140	---
		Fluoranthene	206-44-0	E641A-L	ND	----	ND	50.0	140	---
		Fluorene	86-73-7	E641A-L	ND	----	ND	50.0	140	---
		Indeno(1,2,3-cd)pyrene	193-39-5	E641A-L	ND	----	ND	50.0	140	---
		Methylnaphthalene, 1-	90-12-0	E641A-L	ND	----	ND	50.0	140	---
		Methylnaphthalene, 2-	91-57-6	E641A-L	ND	----	ND	50.0	140	---
		Naphthalene	91-20-3	E641A-L	ND	----	ND	50.0	140	---
		Phenanthrene	85-01-8	E641A-L	ND	----	ND	50.0	140	---
		Pyrene	129-00-0	E641A-L	ND	----	ND	50.0	140	---
		Quinoline	91-22-5	E641A-L	0.340 mg/kg	0.3586 mg/kg	94.9	50.0	140	---
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2423384)										
		Acridine-d9	34749-75-2	E641A-L	0.3 mg/kg	0.2689 mg/kg	102	60.0	130	---
		Chrysene-d12	1719-03-5	E641A-L	0.3 mg/kg	0.2689 mg/kg	109	60.0	130	---
		Naphthalene-d8	1146-65-2	E641A-L	0.3 mg/kg	0.2689 mg/kg	101	50.0	130	---
		Phenanthrene-d10	1517-22-2	E641A-L	0.3 mg/kg	0.2689 mg/kg	108	60.0	130	---

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).



Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Saturated Paste Extractables(QC Lot: 2423381)										
QC-MRG3-2423381001		Chloride, soluble ion content	16887-00-6	E239.Cl	2124 mg/L	2124 mg/L		70.0	130	----
Saturated Paste Extractables(QC Lot: 2423382)										
QC-MRG3-2423381001		% Saturation	----	E141	43.9 %	43.9 %		70.0	130	----
Saturated Paste Extractables(QC Lot: 2423383)										
QC-MRG3-2423381001		Sodium, soluble ion content	17341-25-2	E442	1104 mg/L	1104 mg/L		70.0	130	----
Metals(QC Lot: 2423377)										
QC-MRG2-2423377001		Aluminum	7429-90-5	E440	22490 mg/kg	22490 mg/kg		70.0	130	----
		Antimony	7440-36-0	E440	24.8 mg/kg	24.8 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E440	21.2 mg/kg	21.2 mg/kg		70.0	130	----
		Barium	7440-39-3	E440	788 mg/kg	788 mg/kg		70.0	130	----
		Beryllium	7440-41-7	E440	1.82 mg/kg	1.82 mg/kg		70.0	130	----
		Bismuth	7440-69-9	E440	1.78 mg/kg	1.78 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E440	2.15 mg/kg	2.15 mg/kg		70.0	130	----
		Calcium	7440-70-2	E440	4904 mg/kg	4904 mg/kg		70.0	130	----
		Chromium	7440-47-3	E440	56.9 mg/kg	56.9 mg/kg		70.0	130	----
		Cobalt	7440-48-4	E440	32 mg/kg	32 mg/kg		70.0	130	----
		Copper	7440-50-8	E440	969 mg/kg	969 mg/kg		70.0	130	----
		Iron	7439-89-6	E440	32740 mg/kg	32740 mg/kg		70.0	130	----
		Lead	7439-92-1	E440	919 mg/kg	919 mg/kg		70.0	130	----
		Lithium	7439-93-2	E440	47.3 mg/kg	47.3 mg/kg		70.0	130	----
		Magnesium	7439-95-4	E440	7780 mg/kg	7780 mg/kg		70.0	130	----
		Manganese	7439-96-5	E440	8639 mg/kg	8639 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E440	25.1 mg/kg	25.1 mg/kg		70.0	130	----
		Nickel	7440-02-0	E440	1004 mg/kg	1004 mg/kg		70.0	130	----
		Phosphorus	7723-14-0	E440	660 mg/kg	660 mg/kg		70.0	130	----



Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2423377)										
		Potassium	7440-09-7	E440	10820 mg/kg	10820 mg/kg		70.0	130	----
		Selenium	7782-49-2	E440	1.04 mg/kg	1.04 mg/kg		60.0	140	----
		Silver	7440-22-4	E440	8.98 mg/kg	8.98 mg/kg		70.0	130	----
		Sodium	7440-23-5	E440	1771 mg/kg	1771 mg/kg		70.0	130	----
		Strontium	7440-24-6	E440	41 mg/kg	41 mg/kg		70.0	130	----
		Sulfur	7704-34-9	E440	3935 mg/kg	3935 mg/kg		50.0	150	----
		Thallium	7440-28-0	E440	0.907 mg/kg	0.907 mg/kg		70.0	130	----
		Tin	7440-31-5	E440	3.79 mg/kg	3.79 mg/kg		40.0	160	----
		Titanium	7440-32-6	E440	2786 mg/kg	2786 mg/kg		70.0	130	----
		Tungsten	7440-33-7	E440	6.99 mg/kg	6.99 mg/kg		70.0	130	----
		Uranium	7440-61-1	E440	3.97 mg/kg	3.97 mg/kg		70.0	130	----
		Vanadium	7440-62-2	E440	66.2 mg/kg	66.2 mg/kg		70.0	130	----
		Zinc	7440-66-6	E440	828 mg/kg	828 mg/kg		70.0	130	----
		Zirconium	7440-67-7	E440	6.91 mg/kg	6.91 mg/kg		70.0	130	----
Metals(QC Lot: 2423378)										
QC-MRG2-2423377001		Mercury	7439-97-6	E510	0.0675 mg/kg	0.0675 mg/kg		70.0	130	----
Metals(QC Lot: 2423941)										
QC-MRG2-2423941001		Aluminum	7429-90-5	E440	22490 mg/kg	22490 mg/kg		70.0	130	----
		Antimony	7440-36-0	E440	24.8 mg/kg	24.8 mg/kg		70.0	130	----
		Arsenic	7440-38-2	E440	21.2 mg/kg	21.2 mg/kg		70.0	130	----
		Barium	7440-39-3	E440	788 mg/kg	788 mg/kg		70.0	130	----
		Beryllium	7440-41-7	E440	1.82 mg/kg	1.82 mg/kg		70.0	130	----
		Bismuth	7440-69-9	E440	1.78 mg/kg	1.78 mg/kg		70.0	130	----
		Cadmium	7440-43-9	E440	2.15 mg/kg	2.15 mg/kg		70.0	130	----



Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualification
Metals(QC Lot: 2423941)										
		Calcium	7440-70-2	E440	4904 mg/kg	4904 mg/kg		70.0	130	----
		Chromium	7440-47-3	E440	56.9 mg/kg	56.9 mg/kg		70.0	130	----
		Cobalt	7440-48-4	E440	32 mg/kg	32 mg/kg		70.0	130	----
		Copper	7440-50-8	E440	969 mg/kg	969 mg/kg		70.0	130	----
		Iron	7439-89-6	E440	32740 mg/kg	32740 mg/kg		70.0	130	----
		Lead	7439-92-1	E440	919 mg/kg	919 mg/kg		70.0	130	----
		Lithium	7439-93-2	E440	47.3 mg/kg	47.3 mg/kg		70.0	130	----
		Magnesium	7439-95-4	E440	7780 mg/kg	7780 mg/kg		70.0	130	----
		Manganese	7439-96-5	E440	8639 mg/kg	8639 mg/kg		70.0	130	----
		Molybdenum	7439-98-7	E440	25.1 mg/kg	25.1 mg/kg		70.0	130	----
		Nickel	7440-02-0	E440	1004 mg/kg	1004 mg/kg		70.0	130	----
		Phosphorus	7723-14-0	E440	660 mg/kg	660 mg/kg		70.0	130	----
		Potassium	7440-09-7	E440	10820 mg/kg	10820 mg/kg		70.0	130	----
		Selenium	7782-49-2	E440	1.04 mg/kg	1.04 mg/kg		60.0	140	----
		Silver	7440-22-4	E440	8.98 mg/kg	8.98 mg/kg		70.0	130	----
		Sodium	7440-23-5	E440	1771 mg/kg	1771 mg/kg		70.0	130	----
		Strontium	7440-24-6	E440	41 mg/kg	41 mg/kg		70.0	130	----
		Sulfur	7704-34-9	E440	3935 mg/kg	3935 mg/kg		50.0	150	----
		Thallium	7440-28-0	E440	0.907 mg/kg	0.907 mg/kg		70.0	130	----
		Tin	7440-31-5	E440	3.79 mg/kg	3.79 mg/kg		40.0	160	----
Titanium	7440-32-6	E440	2786 mg/kg	2786 mg/kg	70.0	130	----			
Tungsten	7440-33-7	E440	6.99 mg/kg	6.99 mg/kg	70.0	130	----			
Uranium	7440-61-1	E440	3.97 mg/kg	3.97 mg/kg	70.0	130	----			
Vanadium	7440-62-2	E440	66.2 mg/kg	66.2 mg/kg	70.0	130	----			



Sub-Matrix: Soil

Sub-Matrix: Soil					Reference Material (RM) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Target Concentration	Original Result	LCS	Low	High	Qualifier
Metals(QC Lot: 2423941)										
		Zinc	7440-66-6	E440	828 mg/kg	828 mg/kg		70.0	130	----
		Zirconium	7440-67-7	E440	6.91 mg/kg	6.91 mg/kg		70.0	130	----
Metals(QC Lot: 2423942)										
QC-MRG2-2423941001		Mercury	7439-97-6	E510	0.0675 mg/kg	0.0675 mg/kg		70.0	130	----
Metals(QC Lot: 2425085)										
QC-2425085-001		Boron, hot water soluble	7440-42-8	E487	0.487 mg/kg	0.487 mg/kg		60.0	140	----
Speciated Metals(QC Lot: 2425063)										
QC-2425063-001		Chromium, hexavalent [Cr VI]	18540-29-9	E532	197 mg/kg	197 mg/kg		70.0	130	----
Hydrocarbons(QC Lot: 2423385)										
QC-MRG2-2423384001		EPH (C10-C19)	----	E601A	1134 mg/kg	1134 mg/kg		70.0	130	----
		EPH (C19-C32)	----	E601A	576 mg/kg	576 mg/kg		70.0	130	----
Hydrocarbons(QC Lot: 2425954)										
QC-MRG3-2425954001		VHs (C6-C10)	----	E581.VH+F1	85.8 mg/kg	85.8 mg/kg		70.0	130	----



COC Number: **25-0013864**

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Canada Toll Free: 1 800 668 9878

Environmental Division
Vancouver

Work Order Reference

Work Order Reference
VA26A1045



Telephone : + 1 604 253 4188

Report To		Contact and company name will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested	
Company: EXP SERVICES INC.		Select Report Format: ☒ PDF ☐ EXCEL ☐ EDD (DIGITAL)		Merge QC/QCI Reports with COA ☒ YES ☐ NO ☐ N/A		☒ Routine [R] if received by 3pm M-F - no surcharges apply	
Contact: MAX BANGA		Compare Results to Criteria on Report - provide details below if box checked		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge mini	
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Company address below will appear on the final report		Email 2: jay.vao@exp.com		Email 3:		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge mini	
Street: 3001 WAYBURN DR.		Invoice Recipients		Additional fees may apply to rush requests on week		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge mini	
City/Province: BURLINGAME, BC		Select Invoice Distribution: ☒ EMAIL ☒ MAIL ☐ FAX		Date and Time Required for all E&P, TATs		☐ Same day [E2] if received by 10am M-S - 200% rush surcharge	
Postal Code: V5S 4W3		Email 1 or Fax: sandy.lulu@exp.com		For all tests with rush TATs requested, please		Analysis	
Invoice To: Same as Report To ☒ YES ☐ NO		Email 2:		Indicate Filtered (F), Preserved (P) or Filtered		NUMBER OF CONTAINERS	
Copy of Invoice with Report ☐ YES ☒ NO		Project Information		Oil and Gas Required Fields (client use)		LCAH/HEALTH/HAHS	
Company: EXP SERVICES INC.		AFR/Cost Center:		PO#		VOL/INE/STEX/WH	
Contact: SANDY LULU		Major/Minor Code:		Routing Code:		MOB/LS	
ALS Client Code / QUOTE #:		Requisitioner:		Location:		PA/EL SAT/POSTER	
Job / Project #: WCA-25016719-ND		ALS Lab Work Order # (ALS use only): A1045		ALS Contact: TOMMY T		CAR(VIR)	
PO / AFE:		ALS Sample # (ALS use only)		Sample Identification and/or Coordinates (This description will appear on the report)		WET WATER SOL/BOVEN	
LSD:		Date (dd-mm-yy)		Time (hh:mm)		SAMPLES ON HOLD	
ALS Sample # (ALS use only)		Sample Type		NUMBER OF CONTAINERS		EXTENDED STORAGE REQUIRED	
AH26-01 @ 2'		15-Jan-26		am		SOIL	
AH26-01 @ 4.5'							
AH26-01 @ 9'							
AH26-01 @ 14.5'							
AH26-01 @ 16'							
AH26-02 @ 2'							
AH26-02 @ 4'							
AH26-02 @ 9'							
AH26-02 @ 14'							
AH26-03 @ 2'							
AH26-03 @ 4'							
AH26-03 @ 9'							
Drinking Water (DW) Samples (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)			
Are samples taken from a Regulated DW System?				Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED			
Are samples for human consumption/ use?				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A			
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)			
Released by: [Signature]		Received by: [Signature]		Received by: [Signature]			
Date: 15/1/2026		Date: [Signature]		Date: 15/1/2026			
Time: [Signature]		Time: [Signature]		Time: [Signature]			

REFER TO BACK PAGE FOR AYS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

OCT 2015 FROM



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 25-0014143

Page 2 of 2

Report To Contact and company name below will appear on the final report		Reports / Recipients		Turnaround Time (TAT) Requested		AFFIX ALS BARCODE LABEL HERE (ALS use only)		
Company:		Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)		☒ Routine [R] if received by 3pm M-F - no surcharges apply				
Contact:		Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A		☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum				
Phone:		☐ Compare Results to Criteria on Report - provide details below if box checked		☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum				
Company address below will appear on the final report		Select Distribution: ☐ EMAIL ☒ MAIL ☐ FAX		☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum				
Street:		Email 1 or Fax		☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum				
City/Province:		Email 2		☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.				
Postal Code:		Email 3		Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.				
Invoice To	Same as Report To ☐ YES ☐ NO	Invoice Recipients		Date and Time Required for all E&P, TATs: dd-mm-yy hh:mm am/pm				
	Copy of Invoice with Report ☐ YES ☐ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX		For all tests with rush TATs requested, please contact your AM to confirm availability.				
Company:		Email 1 or Fax		Analysis Request				
Contact:		Email 2		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below				
Project Information		Oil and Gas Required Fields (client use)						
ALS Client Code / QUOTE #:		AFE/Cost Center:	PO#					
Job / Project #:		Major/Minor Code:	Routing Code:					
PO / AFE:		Requisitioner:						
LSD:		Location:						
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:					
ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	AH26-03 @ 14'	15 Jan 26	PM	SOIL	5			
	DUP-A	↓	↓	↓	2			
	DUP-B	↓	↓	↓	2			
Drinking Water (DW) Samples ¹ (client use)		Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)		SAMPLE RECEIPT DETAILS (ALS use only)				
Are samples taken from a Regulated DW System? ☐ YES ☐ NO				Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED				
Are samples for human consumption/ use? ☐ YES ☐ NO				Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A				
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (ALS use only)		FINAL SHIPMENT RECEPTION (ALS use only)				
Released by: <i>[Signature]</i>	Date: 15/11/2026	Time:	Received by: <i>[Signature]</i>	Date: 15 Jan	Time: 10:30 AM			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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OCT 2025 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



D

APPENDIX D – Certificate of Analysis for Groundwater

CERTIFICATE OF ANALYSIS

Work Order	: VA26A1215		
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby British Columbia Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: tasnia.tarannum@alsglobal.com
Project	: WCA-25016719-AO Phase 300	Telephone	: +1 604 253 4188
PO	: ----	Date Samples Received	: 19-Jan-2026 22:00
C-O-C number	: 23-1157890	Date Analysis Commenced	: 21-Jan-2026
Sampler	: Navneet Banga	Issue Date	: 03-Feb-2026 09:56
Site	: ----		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert	Supervisor - Metals Mercury & Speciation	Metals, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Paul Cushing	Team Leader - Organics	Organics, Burnaby, British Columbia
Ruth Wahyudi	Lab Assistant	Metals, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Sample(s) AH26-01, AH26-02, AH26-03: Containers for sulfide not received at laboratory, but requested on Chain of Custody / analytical request form; subsample cannot be obtained from other containers to meet request. The requested analysis cannot be performed.



Qualifiers

Qualifier	Description
DLCI	Detection Limit Raised: Chromatographic interference due to co-elution.
DLQ	Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.
HTA	Analytical holding time was exceeded.
SRU	Sample Received Unpreserved. Results may be biased low for indicated parameter(s).



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Physical Tests										
Hardness (as CaCO ₃), dissolved	----	EC100/VA	0.50	mg/L	80.3	187	140	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/VA	0.50	mg/L	82.0	176	150	81.0	----	----
pH	----	E108/VA	0.10	pH units	7.06	7.50	7.62	----	----	----
Solids, total suspended [TSS]	----	E160/VA	3000	µg/L	60400	40400	362000	----	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl/VA	500	µg/L	22700	83900	45900	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/VA	300	µg/L	13400	13600	14500	----	----	----
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/VA	5.0	µg/L	<5.0 HTA, SRU	<5.0 HTA, SRU	<5.0 HTA, SRU	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	3.0	µg/L	3510	922	13900	4000	----	----
Antimony, total	7440-36-0	E420/VA	0.10	µg/L	0.17	0.15	0.16	0.17	----	----
Arsenic, total	7440-38-2	E420/VA	0.10	µg/L	2.72	1.55	3.71	2.76	----	----
Barium, total	7440-39-3	E420/VA	0.10	µg/L	22.4	32.1	87.6	24.5	----	----
Beryllium, total	7440-41-7	E420/VA	0.020	µg/L	0.047	<0.020	0.164	0.051	----	----
Bismuth, total	7440-69-9	E420/VA	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----	----
Boron, total	7440-42-8	E420/VA	10	µg/L	10	16	19	10	----	----
Cadmium, total	7440-43-9	E420/VA	0.0050	µg/L	0.0280	0.0197	0.0537	0.0304	----	----
Calcium, total	7440-70-2	E420/VA	50	µg/L	19600	40500	35300	18800	----	----
Cesium, total	7440-46-2	E420/VA	0.010	µg/L	0.130	0.041	0.321	0.156	----	----
Chromium, total	7440-47-3	E420/VA	0.50	µg/L	3.28	0.97	8.19	3.75	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Total Metals										
Cobalt, total	7440-48-4	E420/VA	0.10	µg/L	1.39	0.75	4.06	1.52	----	----
Copper, total	7440-50-8	E420/VA	0.50	µg/L	4.87	1.29	11.6	5.34	----	----
Iron, total	7439-89-6	E420/VA	10	µg/L	2250	1120	8110	2470	----	----
Lead, total	7439-92-1	E420/VA	0.050	µg/L	2.61	0.564	2.59	2.84	----	----
Lithium, total	7439-93-2	E420/VA	1.0	µg/L	1.6	1.4	4.8	1.7	----	----
Magnesium, total	7439-95-4	E420/VA	5.0	µg/L	8020	18100	14900	8260	----	----
Manganese, total	7439-96-5	E420/VA	0.10	µg/L	198	331	379	205	----	----
Molybdenum, total	7439-98-7	E420/VA	0.050	µg/L	2.53	0.977	2.59	2.66	----	----
Nickel, total	7440-02-0	E420/VA	0.50	µg/L	2.69	1.17	6.29	2.94	----	----
Phosphorus, total	7723-14-0	E420/VA	50	µg/L	102	73	254	112	----	----
Potassium, total	7440-09-7	E420/VA	50	µg/L	2460	4370	4940	2570	----	----
Rubidium, total	7440-17-7	E420/VA	0.20	µg/L	1.76	0.86	5.06	1.99	----	----
Selenium, total	7782-49-2	E420/VA	0.050	µg/L	0.398	0.149	0.110	0.433	----	----
Silicon, total	7440-21-3	E420/VA	100	µg/L	17900	17300	32500	19200	----	----
Silver, total	7440-22-4	E420/VA	0.010	µg/L	0.013	<0.010	0.015	0.015	----	----
Sodium, total	7440-23-5	E420/VA	50	µg/L	11900	13900	17000	11900	----	----
Strontium, total	7440-24-6	E420/VA	0.20	µg/L	112	207	194	121	----	----
Sulfur, total	7704-34-9	E420/VA	500	µg/L	4380	4880	5300	4490	----	----
Tellurium, total	13494-80-9	E420/VA	0.20	µg/L	<0.20	<0.20	<0.20	<0.20	----	----
Thallium, total	7440-28-0	E420/VA	0.010	µg/L	0.012	<0.010	0.039	0.013	----	----
Thorium, total	7440-29-1	E420/VA	0.10	µg/L	<0.10	<0.10	0.39	<0.10	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Total Metals										
Tin, total	7440-31-5	E420/VA	0.10	µg/L	0.36	0.35	0.71	0.39	----	----
Titanium, total	7440-32-6	E420/VA	0.30	µg/L	110	36.7	424	124	----	----
Tungsten, total	7440-33-7	E420/VA	0.10	µg/L	<0.10	<0.10	0.14	<0.10	----	----
Uranium, total	7440-61-1	E420/VA	0.010	µg/L	0.095	0.099	0.481	0.104	----	----
Vanadium, total	7440-62-2	E420/VA	0.50	µg/L	11.7	3.71	22.9	12.7	----	----
Zinc, total	7440-66-6	E420/VA	3.0	µg/L	47.6	5.5	35.2	47.9	----	----
Zirconium, total	7440-67-7	E420/VA	0.20	µg/L	<0.20	<0.20	0.37	0.20	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/VA	1.0	µg/L	8.5	5.6	3.9	----	----	----
Antimony, dissolved	7440-36-0	E421/VA	0.10	µg/L	0.13	0.12	<0.10	----	----	----
Arsenic, dissolved	7440-38-2	E421/VA	0.10	µg/L	1.95	1.18	0.90	----	----	----
Barium, dissolved	7440-39-3	E421/VA	0.10	µg/L	6.99	25.7	9.29	----	----	----
Beryllium, dissolved	7440-41-7	E421/VA	0.020	µg/L	<0.020	<0.020	<0.020	----	----	----
Bismuth, dissolved	7440-69-9	E421/VA	0.050	µg/L	<0.050	<0.050	<0.050	----	----	----
Boron, dissolved	7440-42-8	E421/VA	10	µg/L	11	16	18	----	----	----
Cadmium, dissolved	7440-43-9	E421/VA	0.0050	µg/L	0.0090	0.0141	0.0085	----	----	----
Calcium, dissolved	7440-70-2	E421/VA	50	µg/L	19100	43600	33700	----	----	----
Cesium, dissolved	7440-46-2	E421/VA	0.010	µg/L	<0.010	<0.010	<0.010	----	----	----
Chromium, dissolved	7440-47-3	E421/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Cobalt, dissolved	7440-48-4	E421/VA	0.10	µg/L	0.41	0.39	0.48	----	----	----
Copper, dissolved	7440-50-8	E421/VA	0.20	µg/L	0.39	<0.20	0.20	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Dissolved Metals										
Iron, dissolved	7439-89-6	E421/VA	10	µg/L	10	213	<10	----	----	----
Lead, dissolved	7439-92-1	E421/VA	0.050	µg/L	<0.050	<0.050	<0.050	----	----	----
Lithium, dissolved	7439-93-2	E421/VA	1.0	µg/L	<1.0	1.1	1.0	----	----	----
Magnesium, dissolved	7439-95-4	E421/VA	5.0	µg/L	7920	19000	13600	----	----	----
Manganese, dissolved	7439-96-5	E421/VA	0.10	µg/L	165	306	229	----	----	----
Molybdenum, dissolved	7439-98-7	E421/VA	0.050	µg/L	2.44	0.910	2.53	----	----	----
Nickel, dissolved	7440-02-0	E421/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Phosphorus, dissolved	7723-14-0	E421/VA	50	µg/L	<50	<50	<50	----	----	----
Potassium, dissolved	7440-09-7	E421/VA	50	µg/L	2120	4010	3560	----	----	----
Rubidium, dissolved	7440-17-7	E421/VA	0.20	µg/L	0.41	0.53	0.33	----	----	----
Selenium, dissolved	7782-49-2	E421/VA	0.050	µg/L	0.376	0.118	0.105	----	----	----
Silicon, dissolved	7440-21-3	E421/VA	50	µg/L	15200	17000	13700	----	----	----
Silver, dissolved	7440-22-4	E421/VA	0.010	µg/L	<0.010	<0.010	<0.010	----	----	----
Sodium, dissolved	7440-23-5	E421/VA	50	µg/L	11800	14200	16100	----	----	----
Strontium, dissolved	7440-24-6	E421/VA	0.20	µg/L	106	205	151	----	----	----
Sulfur, dissolved	7704-34-9	E421/VA	500	µg/L	4080	4420	4520	----	----	----
Tellurium, dissolved	13494-80-9	E421/VA	0.20	µg/L	<0.20	<0.20	<0.20	----	----	----
Thallium, dissolved	7440-28-0	E421/VA	0.010	µg/L	<0.010	<0.010	<0.010	----	----	----
Thorium, dissolved	7440-29-1	E421/VA	0.10	µg/L	<0.10	<0.10	<0.10	----	----	----
Tin, dissolved	7440-31-5	E421/VA	0.10	µg/L	0.15	<0.10	0.25	----	----	----
Titanium, dissolved	7440-32-6	E421/VA	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Dissolved Metals										
Tungsten, dissolved	7440-33-7	E421/VA	0.10	µg/L	<0.10	<0.10	<0.10	----	----	----
Uranium, dissolved	7440-61-1	E421/VA	0.010	µg/L	<0.010	0.072	0.234	----	----	----
Vanadium, dissolved	7440-62-2	E421/VA	0.50	µg/L	5.30	1.82	3.54	----	----	----
Zinc, dissolved	7440-66-6	E421/VA	1.0	µg/L	30.4	2.5	8.2	----	----	----
Zirconium, dissolved	7440-67-7	E421/VA	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----
Dissolved metals filtration location	----	EP421/VA	-	-	Field	Field	Field	----	----	----
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/VA	2000	µg/L	<2000	<2000	<2000	----	----	----
Oil & grease (gravimetric)	----	E567/VA	5000	µg/L	<5000	<5000	<5000	----	----	----
Oil & grease, mineral (gravimetric)	----	E567SG/VA	5000	µg/L	<5000	<5000	<5000	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Chloromethane	74-87-3	E611N/VA	5.0	µg/L	<5.0	<5.0	<5.0	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Dichlorobenzene, 1,3-	541-73-1	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloropropane, 1,2-	78-87-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloropropylene, cis+trans-1,3-	542-75-6	E611N/VA	1.5	µg/L	<1.5	<1.5	<1.5	----	----	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N/VA	0.20	µg/L	<0.20	<0.20	<0.20	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Volatile Organic Compounds										
Trichloroethane, 1,1,2-	79-00-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Trichlorofluoromethane	75-69-4	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
BTEX, total	----	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Volatile Organic Compounds [Drycleaning]										
Carbon tetrachloride	56-23-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Chloroethane	75-00-3	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloroethane, 1,1-	75-34-3	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloroethylene, 1,1-	75-35-4	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloroethylene, cis-1,2-	156-59-2	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloroethylene, trans-1,2-	156-60-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloromethane	75-09-2	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Tetrachloroethylene	127-18-4	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Trichloroethane, 1,1,1-	71-55-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Trichloroethylene	79-01-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Vinyl chloride	75-01-4	E611N/VA	0.40	µg/L	<0.40	<0.40	<0.40	----	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Butadiene, 1,3-	106-99-0	E611N/VA	0.20	µg/L	<0.20	<0.20	<0.20	----	----	----
Cymene, p-	99-87-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Decane, n-	124-18-5	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Volatile Organic Compounds [Fuels]										
Dibromoethane, 1,2-	106-93-4	E611N/VA	0.20	µg/L	<0.20	<0.20	<0.20	----	----	----
Dichloroethane, 1,2-	107-06-2	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Ethylbenzene	100-41-4	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Hexane, n-	110-54-3	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Isopropylbenzene	98-82-8	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Methylcyclohexane	108-87-2	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Propylbenzene, n-	103-65-1	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Styrene	100-42-5	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Toluene	108-88-3	E611N/VA	0.40	µg/L	<0.40	<0.40	<0.40	----	----	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Xylene, m+p-	179601-23-1	E611N/VA	0.40	µg/L	<0.40	<0.40	<0.40	----	----	----
Xylene, o-	95-47-6	E611N/VA	0.30	µg/L	<0.30	<0.30	<0.30	----	----	----
Xylenes, total	1330-20-7	E611N/VA	0.50	µg/L	<0.50	<0.50	<0.50	----	----	----
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Bromoform	75-25-2	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Chloroform	67-66-3	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----
Dibromochloromethane	124-48-1	E611N/VA	1.0	µg/L	<1.0	<1.0	<1.0	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result	----	----
Hydrocarbons										
EPH (C10-C19)	----	E601A/VA	250	µg/L	<250	<250	<250	<250	----	----
HEPHw	----	EC600A/VA	250	µg/L	<250	<250	<250	<250	----	----
LEPHw	----	EC600A/VA	250	µg/L	<250	<250	<250	<250	----	----
VHw (C6-C10)	----	E581.VH+F1/VA	100	µg/L	<100	<100	<100	----	----	----
EPH (C10-C32)	----	E601A/VA	400	µg/L	<400	<400	<400	<400	----	----
EPH (C19-C32)	----	E601A/VA	250	µg/L	<250	<250	<250	<250	----	----
TEH (C10-C30), BC	----	E601A/VA	250	µg/L	<250	<250	<250	<250	----	----
VPHw	----	EC580A/VA	100	µg/L	<100	<100	<100	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A/VA	1.0	%	91.7	83.0	92.3	85.8	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1/VA	1.0	%	106	113	105	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611N/VA	1.0	%	93.7	93.3	95.9	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611N/VA	1.0	%	100	99.8	99.9	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641B/VA	0.010	µg/L	3.91	0.011	<0.010	3.95	----	----
Acenaphthylene	208-96-8	E641B/VA	0.010	µg/L	0.113	<0.010	<0.010	0.112	----	----
Acridine	260-94-6	E641B/VA	0.010	µg/L	0.081	<0.010	<0.010	0.077	----	----
Anthracene	120-12-7	E641B/VA	0.010	µg/L	1.56	<0.010	<0.010	1.75	----	----
Benz(a)anthracene	56-55-3	E641B/VA	0.010	µg/L	2.56	0.011	0.010	2.21	----	----
Benzo(a)pyrene	50-32-8	E641B/VA	0.0050	µg/L	2.82	0.0117	0.0097	2.49	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	AH26-01	AH26-02	AH26-03	DUP-1	----
					Client sampling date / time	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----	----
					Result	Result	Result	Result		----
Polycyclic Aromatic Hydrocarbons										
Benzo(b+j)fluoranthene	n/a	E641B/VA	0.010	µg/L	2.27	<0.010	<0.010	2.00		----
Benzo(b+j+k)fluoranthene	n/a	E641B/VA	0.015	µg/L	3.29	<0.015	<0.015	2.88		----
Benzo(e)pyrene	192-97-2	E641B/VA	0.010	µg/L	1.20	<0.010	<0.010	1.06		----
Benzo(g,h,i)perylene	191-24-2	E641B/VA	0.010	µg/L	1.69	<0.010	<0.010	1.47		----
Benzo(k)fluoranthene	207-08-9	E641B/VA	0.010	µg/L	1.02	<0.010	<0.010	0.885		----
Chrysene	218-01-9	E641B/VA	0.010	µg/L	2.62	<0.010	<0.010	2.33		----
Dibenz(a,h)anthracene	53-70-3	E641B/VA	0.0050	µg/L	0.418	<0.0050	<0.0050	0.366		----
Dimethylbenz(a)anthracene, 7,12-	57-97-6	E641B/VA	0.010	µg/L	<0.023 ^{DLQ}	<0.010	<0.010	<0.018 ^{DLQ}		----
Fluoranthene	206-44-0	E641B/VA	0.010	µg/L	5.95	0.021	0.019	5.22		----
Fluorene	86-73-7	E641B/VA	0.010	µg/L	2.23	<0.010	<0.010	2.24		----
Indeno(1,2,3-cd)pyrene	193-39-5	E641B/VA	0.010	µg/L	2.04	<0.010	<0.010	1.80		----
Methylcholanthrene, 3-	56-49-5	E641B/VA	0.010	µg/L	<0.012 ^{DLQ}	<0.010	<0.010	<0.010		----
Methylnaphthalene, 1-	90-12-0	E641B/VA	0.010	µg/L	2.01	<0.010	<0.010	2.06		----
Methylnaphthalene, 1+2-	----	E641B/VA	0.015	µg/L	4.40	<0.015	<0.015	4.50		----
Methylnaphthalene, 2-	91-57-6	E641B/VA	0.010	µg/L	2.39	<0.010	<0.010	2.44		----
Naphthalene	91-20-3	E641B/VA	0.050	µg/L	17.1	<0.050	<0.050	17.3		----
Nitropyrene, 4-	57835-92-4	E641B/VA	0.10	µg/L	<0.10	<0.10	<0.10	<0.10		----
Phenanthrene	85-01-8	E641B/VA	0.020	µg/L	5.60	<0.020	<0.020	5.27		----
Pyrene	129-00-0	E641B/VA	0.010	µg/L	5.35	0.019	0.018	4.66		----
Quinoline	91-22-5	E641B/VA	0.050	µg/L	0.731	<0.050	<0.050	0.714		----
PAHs, total (EPA 16)	n/a	E641B/VA	0.065	µg/L	57.3	0.074	<0.065	54.1		----



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	AH26-01 ----	AH26-02 ----	AH26-03 ----	DUP-1 ----	----
Client sampling date / time						19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	19-Jan-2026 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit		VA26A1215-001	VA26A1215-002	VA26A1215-003	VA26A1215-004	----
						Result	Result	Result	Result	----
Polycyclic Aromatic Hydrocarbons										
PAHs, total (P2MMP)	n/a	E641B/VA	0.040	µg/L		37.3	0.063	0.057	33.8	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641B/VA	0.1	%		88.1	88.0	101	95.8	----
Naphthalene-d8	1146-65-2	E641B/VA	0.1	%		88.5	80.9	90.1	91.9	----
Phenanthrene-d10	1517-22-2	E641B/VA	0.1	%		97.5	89.5	99.0	100	----

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: VA26A1215	Page	: 1 of 13
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby BC Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: WCA-25016719-AO Phase 300	Date Samples Received	: 19-Jan-2026 22:00
PO	: ----	Issue Date	: 03-Feb-2026 09:56
C-O-C number	: 23-1157890		
Sampler	: Navneet Banga		
Site	:		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT 3d] AH26-01	E550	19-Jan-2026	----	----	----		21-Jan-2026	3 days	3 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT 3d] AH26-02	E550	19-Jan-2026	----	----	----		21-Jan-2026	3 days	3 days	✓
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT 3d] AH26-03	E550	19-Jan-2026	----	----	----		21-Jan-2026	3 days	3 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-01	E567SG	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-02	E567SG	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-03	E567SG	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-01	E567	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-02	E567	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) AH26-03	E567	19-Jan-2026	24-Jan-2026	28 days	5 days	✓	24-Jan-2026	28 days	5 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE AH26-01	E235.Cl	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	26-Jan-2026	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE AH26-02	E235.Cl	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	26-Jan-2026	28 days	8 days	✓
Anions and Nutrients : Chloride in Water by IC										
HDPE AH26-03	E235.Cl	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	26-Jan-2026	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE AH26-01	E235.SO4	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	29-Jan-2026	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE AH26-02	E235.SO4	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	29-Jan-2026	28 days	8 days	✓
Anions and Nutrients : Sulfate in Water by IC										
HDPE AH26-03	E235.SO4	19-Jan-2026	26-Jan-2026	28 days	8 days	✓	29-Jan-2026	28 days	8 days	✓
Cyanides : Total Cyanide										
HDPE AH26-01	E333	19-Jan-2026	30-Jan-2026	39 hrs	270 hrs	✖ EHTL	30-Jan-2026	39 hrs	270 hrs	✖ EHTL



Matrix: **Water** Evaluation: * = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Cyanides : Total Cyanide										
HDPE AH26-02	E333	19-Jan-2026	30-Jan-2026	39 hrs	270 hrs	✖ EHTL	30-Jan-2026	39 hrs	270 hrs	✖ EHTL
Cyanides : Total Cyanide										
HDPE AH26-03	E333	19-Jan-2026	30-Jan-2026	39 hrs	270 hrs	✖ EHTL	30-Jan-2026	39 hrs	270 hrs	✖ EHTL
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) AH26-01	E421	19-Jan-2026	22-Jan-2026	180 days	4 days	✔	23-Jan-2026	180 days	4 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) AH26-02	E421	19-Jan-2026	22-Jan-2026	180 days	4 days	✔	23-Jan-2026	180 days	4 days	✔
Dissolved Metals : Dissolved Metals in Water by CRC ICPMS										
HDPE - dissolved (lab preserved) AH26-03	E421	19-Jan-2026	22-Jan-2026	180 days	4 days	✔	23-Jan-2026	180 days	4 days	✔
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-01	E601A	19-Jan-2026	22-Jan-2026	14 days	3 days	✔	22-Jan-2026	40 days	1 days	✔
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-02	E601A	19-Jan-2026	22-Jan-2026	14 days	3 days	✔	22-Jan-2026	40 days	1 days	✔
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-03	E601A	19-Jan-2026	22-Jan-2026	14 days	3 days	✔	22-Jan-2026	40 days	1 days	✔
Hydrocarbons : BC PHCs - EPH by GC-FID										
Amber glass/Teflon lined cap (sodium bisulfate) DUP-1	E601A	19-Jan-2026	22-Jan-2026	14 days	3 days	✔	22-Jan-2026	40 days	1 days	✔



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate) AH26-01	E581.VH+F1	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate) AH26-02	E581.VH+F1	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓
Hydrocarbons : VH and F1 by Headspace GC-FID										
Glass vial (sodium bisulfate) AH26-03	E581.VH+F1	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓
Physical Tests : pH by Meter										
HDPE AH26-01	E108	19-Jan-2026	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM
Physical Tests : pH by Meter										
HDPE AH26-02	E108	19-Jan-2026	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM
Physical Tests : pH by Meter										
HDPE AH26-03	E108	19-Jan-2026	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM	28-Jan-2026	0.25 hrs	229 hrs	✗ EHTR-FM
Physical Tests : TSS by Gravimetry										
HDPE AH26-01	E160	19-Jan-2026	----	----	----		26-Jan-2026	7 days	8 days	✓
Physical Tests : TSS by Gravimetry										
HDPE AH26-02	E160	19-Jan-2026	----	----	----		26-Jan-2026	7 days	8 days	✓
Physical Tests : TSS by Gravimetry										
HDPE AH26-03	E160	19-Jan-2026	----	----	----		26-Jan-2026	7 days	8 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Analysis			
Container / Client Sample ID(s)			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Polycyclic Aromatic Hydrocarbons : PAHs (BC Special List) in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-01	E641B	19-Jan-2026	22-Jan-2026	14 days	3 days	✓	22-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs (BC Special List) in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-02	E641B	19-Jan-2026	22-Jan-2026	14 days	3 days	✓	22-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs (BC Special List) in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) AH26-03	E641B	19-Jan-2026	22-Jan-2026	14 days	3 days	✓	22-Jan-2026	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs (BC Special List) in Water by Hexane LVI GC-MS										
Amber glass/Teflon lined cap (sodium bisulfate) DUP-1	E641B	19-Jan-2026	22-Jan-2026	14 days	3 days	✓	22-Jan-2026	40 days	1 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) AH26-01	E420	19-Jan-2026	22-Jan-2026	180 days	4 days	✓	23-Jan-2026	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) AH26-02	E420	19-Jan-2026	22-Jan-2026	180 days	4 days	✓	23-Jan-2026	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) AH26-03	E420	19-Jan-2026	22-Jan-2026	180 days	4 days	✓	23-Jan-2026	180 days	4 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) DUP-1	E420	19-Jan-2026	22-Jan-2026	180 days	4 days	✓	23-Jan-2026	180 days	4 days	✓
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AH26-01	E611N	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓

Page : 8 of 13
 Work Order : VA26A1215 Amendment 1
 Client : EXP Services Inc.
 Project : WCA-25016719-AO Phase 300



Matrix: **Water**
Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AH26-02	E611N	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓
Volatile Organic Compounds : VOCs (Fuel List) by Headspace GC-MS										
Glass vial (sodium bisulfate) AH26-03	E611N	19-Jan-2026	21-Jan-2026	14 days	3 days	✓	22-Jan-2026	14 days	3 days	✓

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended
 EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
 Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
pH by Meter	E108	2433455	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	2430596	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2430699	1	5	20.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2434825	0	3	0.0	5.0	✗
Total Cyanide	E333	2435675	1	15	6.6	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2425039	1	19	5.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2425494	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2425554	1	17	5.8	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	2425926	1	14	7.1	5.0	✓
VOCs (Fuel List) by Headspace GC-MS	E611N	2425927	1	7	14.2	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter	E108	2433455	1	3	33.3	5.0	✓
TSS by Gravimetry	E160	2430596	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2430699	1	5	20.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2434825	1	3	33.3	5.0	✓
Total Cyanide	E333	2435675	1	15	6.6	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2425039	1	19	5.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2425494	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2425554	1	17	5.8	5.0	✓
Oil & Grease by Gravimetry	E567	2429175	1	7	14.2	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	2429174	1	5	20.0	5.0	✓
VH and F1 by Headspace GC-FID	E581.VH+F1	2425926	1	14	7.1	5.0	✓
BC PHCs - EPH by GC-FID	E601A	2425980	1	11	9.0	5.0	✓
VOCs (Fuel List) by Headspace GC-MS	E611N	2425927	1	7	14.2	5.0	✓
PAHs (BC Special List) in Water by Hexane LVI GC-MS	E641B	2425981	1	5	20.0	5.0	✓
Method Blanks (MB)							
TSS by Gravimetry	E160	2430596	1	20	5.0	5.0	✓
Chloride in Water by IC	E235.Cl	2430699	1	5	20.0	5.0	✓
Sulfate in Water by IC	E235.SO4	2434825	1	3	33.3	5.0	✓
Total Cyanide	E333	2435675	1	15	6.6	5.0	✓
Total Metals in Water by CRC ICPMS	E420	2425039	1	19	5.2	5.0	✓
Dissolved Metals in Water by CRC ICPMS	E421	2425494	1	20	5.0	5.0	✓
Biochemical Oxygen Demand - 5 day	E550	2425554	1	17	5.8	5.0	✓
Oil & Grease by Gravimetry	E567	2429175	1	7	14.2	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	2429174	1	5	20.0	5.0	✓



Matrix: **Water**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type			Count		Frequency (%)		
<i>Analytical Methods</i>	<i>Method</i>	<i>QC Lot #</i>	<i>QC</i>	<i>Regular</i>	<i>Actual</i>	<i>Expected</i>	<i>Evaluation</i>
Method Blanks (MB) - Continued							
VH and F1 by Headspace GC-FID	E581.VH+F1	2425926	1	14	7.1	5.0	✔
BC PHCs - EPH by GC-FID	E601A	2425980	1	11	9.0	5.0	✔
VOCs (Fuel List) by Headspace GC-MS	E611N	2425927	1	7	14.2	5.0	✔
PAHs (BC Special List) in Water by Hexane LVI GC-MS	E641B	2425981	1	5	20.0	5.0	✔
Matrix Spikes (MS)							
Chloride in Water by IC	E235.Cl	2430699	1	5	20.0	5.0	✔
Sulfate in Water by IC	E235.SO4	2434825	0	3	0.0	5.0	✖
Total Cyanide	E333	2435675	1	15	6.6	5.0	✔
Total Metals in Water by CRC ICPMS	E420	2425039	1	19	5.2	5.0	✔
Dissolved Metals in Water by CRC ICPMS	E421	2425494	1	20	5.0	5.0	✔
VH and F1 by Headspace GC-FID	E581.VH+F1	2425926	1	14	7.1	5.0	✔
VOCs (Fuel List) by Headspace GC-MS	E611N	2425927	1	7	14.2	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
pH by Meter	E108 ALS Environmental - Vancouver	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally $20 \pm 5^{\circ}\text{C}$). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 ALS Environmental - Vancouver	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^{\circ}\text{C}$, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Chloride in Water by IC	E235.Cl ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Sulfate in Water by IC	E235.SO4 ALS Environmental - Vancouver	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Cyanide	E333 ALS Environmental - Vancouver	Water	ISO 14403 (mod)	Total or Strong Acid Dissociable (SAD) Cyanide is determined by Continuous Flow Analyzer (CFA) with in-line UV digestion followed by colourmetric analysis. Method Limitation: High levels of thiocyanate (SCN) may cause positive interference (up to 0.5% of SCN concentration).
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Vancouver	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Dissolved Metals in Water by CRC ICPMS	E421 ALS Environmental - Vancouver	Water	APHA 3030B/EPA 6020B (mod)	Water samples are filtered (0.45 μm), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Biochemical Oxygen Demand - 5 day	E550 ALS Environmental - Vancouver	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease by Gravimetry	E567 ALS Environmental - Vancouver	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Mineral Oil & Grease by Gravimetry	E567SG ALS Environmental - Vancouver	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane, followed by silica gel treatment after which the extract is evaporated to dryness. The residue is then weighed to determine Mineral Oil and Grease.
VH and F1 by Headspace GC-FID	E581.VH+F1 ALS Environmental - Vancouver	Water	BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod)	Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BC PHCs - EPH by GC-FID	E601A ALS Environmental - Vancouver	Water	BC MOE Lab Manual	Sample extracts are analyzed by GC-FID for BC hydrocarbon fractions.
VOCs (Fuel List) by Headspace GC-MS	E611N ALS Environmental - Vancouver	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs (BC Special List) in Water by Hexane LVI GC-MS	E641B ALS Environmental - Vancouver	Water	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.
Dissolved Hardness (Calculated)	EC100 ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VPH: VH-BTEX-Styrene	EC580A ALS Environmental - Vancouver	Water	BC MOE Lab Manual (VPH in Water and Solids) (mod)	Volatile Petroleum Hydrocarbons (VPH) is calculated as follows: VPHw = Volatile Hydrocarbons (VH C6-C10) minus benzene, toluene, ethylbenzene, xylenes (BTEX) and styrene.
LEPH and HEPH: EPH-PAH	EC600A ALS Environmental - Vancouver	Water	BC MOE Lab Manual (LEPH and HEPH)	Light Extractable Petroleum Hydrocarbons (LEPH) and Heavy Extractable Petroleum Hydrocarbons (HEPH) are calculated as follows: LEPH = Extractable Petroleum Hydrocarbons (EPH10-19) minus Acenaphthene, Acridine, Anthracene, Fluorene, Naphthalene and Phenanthrene; HEPH = Extractable Petroleum Hydrocarbons (EPH19-32) minus Benz(a)anthracene, Benzo(a)pyrene, Fluoranthene, and Pyrene.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Dissolved Metals Water Filtration	EP421 ALS Environmental - Vancouver	Water	APHA 3030B	Water samples are filtered (0.45 um), and preserved with HNO ₃ .
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Vancouver	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Vancouver	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Vancouver	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: VA26A1215		
Amendment	: 1		
Client	: EXP Services Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Navneet Banga	Account Manager	: Tasnia Tarannum
Address	: 275-3001 Wayburne Dr. Burnaby BC Canada V5G 4W3	Address	: 8081 Lougheed Highway Burnaby British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: WCA-25016719-AO Phase 300	Date Samples Received	: 19-Jan-2026 22:00
PO	: ----	Date Analysis Commenced	: 21-Jan-2026
C-O-C number	: 23-1157890	Issue Date	: 03-Feb-2026 09:56
Sampler	: Navneet Banga		
Site	: ----		
Quote number	: EXP Western Canada Standing Offer 2024		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Dan Gebert	Supervisor - Metals Mercury & Speciation	Vancouver Metals, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Vancouver Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
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Paul Cushing	Team Leader - Organics	Vancouver Organics, Burnaby, British Columbia
Ruth Wahyudi	Lab Assistant	Vancouver Metals, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key:

- Anonymous=Refers to samples which are not part of this work order, but which formed part of the QC process lot.
- CAS Number=Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
- DQO=Data Quality Objective.
- LOR=Limit of Reporting (detection limit).
- RPD=Relative Percent Difference
- # =Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test specific).

Sub-Matrix: Effluent

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Aggregate Organics(QC Lot: 2425554)											
VA26A1359-002	Anonymous	Biochemical oxygen demand [BOD]	----	E550	20.0	mg/L	52.0	48.2	7.6 %	30%	---

Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests(QC Lot: 2430596)											
VA26A1208-001	Anonymous	Solids, total suspended [TSS]	----	E160	3.0	mg/L	199	196	1.62 %	20%	---
Physical Tests(QC Lot: 2433455)											
VA26A1215-001	AH26-01	pH	----	E108	0.10	pH units	7.06	7.15	1.27 %	4%	---
Anions and Nutrients(QC Lot: 2430699)											
VA26A1743-001	Anonymous	Chloride	16887-00-6	E235.Cl	50.0	mg/L	3900	4080	4.45 %	20%	---
Cyanides(QC Lot: 2435675)											
VA26A2072-001	Anonymous	Cyanide, strong acid dissociable	----	E333	0.0100	mg/L	0.0314	0.0322	0.0009	Diff <2x LOR	---
Total Metals(QC Lot: 2425039)											
VA26A1286-003	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.0246	0.0226	0.0021	Diff <2x LOR	---
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00143	0.00140	2.43 %	20%	---
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0617	0.0578	6.53 %	20%	---
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	---
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Boron, total	7440-42-8	E420	0.010	mg/L	0.044	0.046	0.002	Diff <2x LOR	---
		Cadmium, total	7440-43-9	E420	0.0000150	mg/L	<0.0000150	<0.0000150	0	Diff <2x LOR	---
		Calcium, total	7440-70-2	E420	0.050	mg/L	140	144	2.65 %	20%	---
		Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000014	0.000013	0.0000004	Diff <2x LOR	---
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00110	0.00104	0.00006	Diff <2x LOR	---
		Iron, total	7439-89-6	E420	0.010	mg/L	0.038	0.037	0.0009	Diff <2x LOR	---
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0115	0.0118	2.49 %	20%	---
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	49.0	48.0	2.16 %	20%	---
		Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0239	0.0204	15.6 %	20%	---



Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals(QC Lot: 2425039)											
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.0377	0.0380	0.786 %	20%	---
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	0.115	0.111	0.004	Diff <2x LOR	---
		Potassium, total	7440-09-7	E420	0.050	mg/L	15.8	15.2	3.75 %	20%	---
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00432	0.00437	1.20 %	20%	---
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000359	0.000344	0.000015	Diff <2x LOR	---
		Silicon, total	7440-21-3	E420	0.10	mg/L	12.2	12.2	0.446 %	20%	---
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Sodium, total	7440-23-5	E420	0.050	mg/L	103	103	0.497 %	20%	---
		Strontium, total	7440-24-6	E420	0.00020	mg/L	1.15	1.15	0.685 %	20%	---
		Sulfur, total	7704-34-9	E420	0.50	mg/L	185	183	0.725 %	20%	---
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---
		Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Thorium, total	7440-29-1	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Titanium, total	7440-32-6	E420	0.00030	mg/L	0.00073	0.00099	0.00026	Diff <2x LOR	---
		Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.00219	0.00218	0.496 %	20%	---
		Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00187	0.00184	0.00003	Diff <2x LOR	---
		Zinc, total	7440-66-6	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	---
		Zirconium, total	7440-67-7	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---
Dissolved Metals(QC Lot: 2425494)											
KS2600167-002	Anonymous	Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	<0.0010	0.0013	0.0003	Diff <2x LOR	---
		Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00044	0.00043	0.000009	Diff <2x LOR	---
		Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0775	0.0764	1.48 %	20%	---
		Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	---
		Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Boron, dissolved	7440-42-8	E421	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	---
		Cadmium, dissolved	7440-43-9	E421	0.0000975	mg/L	<0.0000975	<0.0000975	0	Diff <2x LOR	---
		Calcium, dissolved	7440-70-2	E421	0.050	mg/L	67.6	67.9	0.459 %	20%	---
		Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	0.000065	0.000057	0.000007	Diff <2x LOR	---
		Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.0127	0.0124	2.45 %	20%	---
		Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.028	0.027	0.0004	Diff <2x LOR	---



Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Dissolved Metals(QC Lot: 2425494)											
		Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	---
		Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	---
		Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	14.1	13.9	1.80 %	20%	---
		Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.0391	0.0388	0.943 %	20%	---
		Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.443	0.431	2.81 %	20%	---
		Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	---
		Potassium, dissolved	7440-09-7	E421	0.050	mg/L	3.47	3.37	2.89 %	20%	---
		Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00162	0.00162	0.0000005	Diff <2x LOR	---
		Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000146	0.000169	0.000023	Diff <2x LOR	---
		Silicon, dissolved	7440-21-3	E421	0.050	mg/L	8.93	8.96	0.374 %	20%	---
		Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Sodium, dissolved	7440-23-5	E421	0.050	mg/L	12.9	12.9	0.0755 %	20%	---
		Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	1.04	0.996	4.03 %	20%	---
		Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	6.41	6.44	0.447 %	20%	---
		Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	---
		Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	---
		Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	0.00064	0.00061	0.00003	Diff <2x LOR	---
		Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	---
		Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000411	0.000412	0.133 %	20%	---
		Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	---
		Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	---
		Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	0	Diff <2x LOR	---
Volatile Organic Compounds(QC Lot: 2425927)											
VA26A1132-001	Anonymous	Benzene	71-43-2	E611N	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	---
		Bromodichloromethane	75-27-4	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Bromoform	75-25-2	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Butadiene, 1,3-	106-99-0	E611N	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	---
		Carbon tetrachloride	56-23-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Chlorobenzene	108-90-7	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Chloroethane	75-00-3	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Chloroform	67-66-3	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Chloromethane	74-87-3	E611N	5.0	µg/L	<5.0	<5.0	0	Diff <2x LOR	---
		Cymene, p-	99-87-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---



Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Volatile Organic Compounds(QC Lot: 2425927)											
		Decane, n-	124-18-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dibromochloromethane	124-48-1	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dibromoethane, 1,2-	106-93-4	E611N	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	---
		Dichlorobenzene, 1,2-	95-50-1	E611N	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	---
		Dichlorobenzene, 1,3-	541-73-1	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichlorobenzene, 1,4-	106-46-7	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloroethane, 1,1-	75-34-3	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloroethane, 1,2-	107-06-2	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloroethylene, 1,1-	75-35-4	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloroethylene, cis-1,2-	156-59-2	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloroethylene, trans-1,2-	156-60-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloromethane	75-09-2	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloropropane, 1,2-	78-87-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Ethylbenzene	100-41-4	E611N	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	---
		Hexane, n-	110-54-3	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Isopropylbenzene	98-82-8	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	---
		Methylcyclohexane	108-87-2	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Propylbenzene, n-	103-65-1	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Styrene	100-42-5	E611N	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.20	µg/L	<0.20	<0.20	0	Diff <2x LOR	---
		Tetrachloroethylene	127-18-4	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Toluene	108-88-3	E611N	0.40	µg/L	0.54	0.57	0.03	Diff <2x LOR	---
		Trichloroethane, 1,1,1-	71-55-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Trichloroethane, 1,1,2-	79-00-5	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Trichloroethylene	79-01-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Trichlorofluoromethane	75-69-4	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Trimethylbenzene, 1,2,4-	95-63-6	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Trimethylbenzene, 1,3,5-	108-67-8	E611N	1.0	µg/L	<1.0	<1.0	0	Diff <2x LOR	---
		Vinyl chloride	75-01-4	E611N	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	---
		Xylene, m+p-	179601-23-1	E611N	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	---
		Xylene, o-	95-47-6	E611N	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	---



Sub-Matrix: Water

Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Hydrocarbons(QC Lot: 2425926)											
VA26A1132-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	<100	0.0 %	30%	---

Qualifiers

Qualifier	Description
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts.

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests(QC Lot: 2430596)						
Solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Physical Tests(QC Lot: 2433455)						
pH	----	E108	----	pH units	----	----
Anions and Nutrients(QC Lot: 2430699)						
Chloride	16887-00-6	E235.Cl	0.5	mg/L	<0.50	----
Anions and Nutrients(QC Lot: 2434825)						
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	<0.30	----
Cyanides(QC Lot: 2435675)						
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.0028	----
Total Metals(QC Lot: 2425039)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	----
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	----
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals(QC Lot: 2425039)						
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	----
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	----
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	----
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	----
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	----
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	----
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	----
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	----
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	----
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Dissolved Metals(QC Lot: 2425494)						
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	<0.0010	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	<0.00010	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	<0.00010	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	<0.00010	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	<0.000020	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	<0.000050	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	<0.010	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Dissolved Metals(QC Lot: 2425494)						
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	<0.0000050	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	<0.050	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	<0.000010	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	<0.00050	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	<0.00010	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	<0.00020	----
Iron, dissolved	7439-89-6	E421	0.01	mg/L	<0.010	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	<0.000050	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	<0.0010	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	<0.0050	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	<0.00010	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	<0.000050	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	<0.00050	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	<0.050	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	<0.050	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	<0.00020	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	<0.000050	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	<0.050	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	<0.000010	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	<0.050	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	<0.00020	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	<0.50	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	<0.00020	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	<0.000010	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	<0.00010	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	<0.00010	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	<0.00030	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	<0.00010	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	<0.000010	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	<0.00050	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	<0.0010	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	<0.00020	----
Aggregate Organics(QC Lot: 2425554)						
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics(QC Lot: 2429174)						
Oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	<5.0	----
Aggregate Organics(QC Lot: 2429175)						
Oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds(QC Lot: 2425927)						
Benzene	71-43-2	E611N	0.5	µg/L	<0.50	----
Bromodichloromethane	75-27-4	E611N	1	µg/L	<1.0	----
Bromoform	75-25-2	E611N	1	µg/L	<1.0	----
Butadiene, 1,3-	106-99-0	E611N	0.2	µg/L	<0.20	----
Carbon tetrachloride	56-23-5	E611N	1	µg/L	<1.0	----
Chlorobenzene	108-90-7	E611N	1	µg/L	<1.0	----
Chloroethane	75-00-3	E611N	1	µg/L	<1.0	----
Chloroform	67-66-3	E611N	1	µg/L	<1.0	----
Chloromethane	74-87-3	E611N	5	µg/L	<5.0	----
Cymene, p-	99-87-6	E611N	1	µg/L	<1.0	----
Decane, n-	124-18-5	E611N	1	µg/L	<1.0	----
Dibromochloromethane	124-48-1	E611N	1	µg/L	<1.0	----
Dibromoethane, 1,2-	106-93-4	E611N	0.2	µg/L	<0.20	----
Dichlorobenzene, 1,2-	95-50-1	E611N	0.5	µg/L	<0.50	----
Dichlorobenzene, 1,3-	541-73-1	E611N	1	µg/L	<1.0	----
Dichlorobenzene, 1,4-	106-46-7	E611N	1	µg/L	<1.0	----
Dichloroethane, 1,1-	75-34-3	E611N	1	µg/L	<1.0	----
Dichloroethane, 1,2-	107-06-2	E611N	1	µg/L	<1.0	----
Dichloroethylene, 1,1-	75-35-4	E611N	1	µg/L	<1.0	----
Dichloroethylene, cis-1,2-	156-59-2	E611N	1	µg/L	<1.0	----
Dichloroethylene, trans-1,2-	156-60-5	E611N	1	µg/L	<1.0	----
Dichloromethane	75-09-2	E611N	1	µg/L	<1.0	----
Dichloropropane, 1,2-	78-87-5	E611N	1	µg/L	<1.0	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N	1	µg/L	<1.0	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N	1	µg/L	<1.0	----
Ethylbenzene	100-41-4	E611N	0.5	µg/L	<0.50	----
Hexane, n-	110-54-3	E611N	1	µg/L	<1.0	----
Isopropylbenzene	98-82-8	E611N	1	µg/L	<1.0	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.5	µg/L	<0.50	----
Methylcyclohexane	108-87-2	E611N	1	µg/L	<1.0	----
Propylbenzene, n-	103-65-1	E611N	1	µg/L	<1.0	----
Styrene	100-42-5	E611N	0.5	µg/L	<0.50	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	1	µg/L	<1.0	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.2	µg/L	<0.20	----
Tetrachloroethylene	127-18-4	E611N	1	µg/L	<1.0	----
Toluene	108-88-3	E611N	0.4	µg/L	<0.40	----
Trichloroethane, 1,1,1-	71-55-6	E611N	1	µg/L	<1.0	----
Trichloroethane, 1,1,2-	79-00-5	E611N	1	µg/L	<1.0	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds(QC Lot: 2425927)						
Trichloroethylene	79-01-6	E611N	1	µg/L	<1.0	----
Trichlorofluoromethane	75-69-4	E611N	1	µg/L	<1.0	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N	1	µg/L	<1.0	----
Trimethylbenzene, 1,3,5-	108-67-8	E611N	1	µg/L	<1.0	----
Vinyl chloride	75-01-4	E611N	0.4	µg/L	<0.40	----
Xylene, m+p-	179601-23-1	E611N	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611N	0.3	µg/L	<0.30	----
Hydrocarbons(QC Lot: 2425926)						
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	<100	----
Hydrocarbons(QC Lot: 2425980)						
EPH (C10-C19)	----	E601A	250	µg/L	<250	----
EPH (C19-C32)	----	E601A	250	µg/L	<250	----
TEH (C10-C30), BC	----	E601A	250	µg/L	<250	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2425981)						
Acenaphthene	83-32-9	E641B	0.01	µg/L	<0.010	----
Acenaphthylene	208-96-8	E641B	0.01	µg/L	<0.010	----
Acridine	260-94-6	E641B	0.01	µg/L	<0.010	----
Anthracene	120-12-7	E641B	0.01	µg/L	<0.010	----
Benz(a)anthracene	56-55-3	E641B	0.01	µg/L	<0.010	----
Benzo(a)pyrene	50-32-8	E641B	0.005	µg/L	<0.0050	----
Benzo(b+j)fluoranthene	n/a	E641B	0.01	µg/L	<0.010	----
Benzo(b+j+k)fluoranthene	n/a	E641B	----	µg/L	----	----
Benzo(e)pyrene	192-97-2	E641B	0.01	µg/L	<0.010	----
Benzo(g,h,i)perylene	191-24-2	E641B	0.01	µg/L	<0.010	----
Benzo(k)fluoranthene	207-08-9	E641B	0.01	µg/L	<0.010	----
Chrysene	218-01-9	E641B	0.01	µg/L	<0.010	----
Dibenz(a,h)anthracene	53-70-3	E641B	0.005	µg/L	<0.0050	----
Dimethylbenz(a)anthracene, 7,12-	57-97-6	E641B	0.01	µg/L	<0.010	----
Fluoranthene	206-44-0	E641B	0.01	µg/L	<0.010	----
Fluorene	86-73-7	E641B	0.01	µg/L	<0.010	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641B	0.01	µg/L	<0.010	----
Methylcholanthrene, 3-	56-49-5	E641B	0.01	µg/L	<0.010	----
Methylnaphthalene, 1-	90-12-0	E641B	0.01	µg/L	<0.010	----
Methylnaphthalene, 2-	91-57-6	E641B	0.01	µg/L	<0.010	----
Naphthalene	91-20-3	E641B	0.05	µg/L	<0.050	----
Nitropyrene, 4-	57835-92-4	E641B	0.1	µg/L	<0.10	----
Phenanthrene	85-01-8	E641B	0.02	µg/L	<0.020	----
Pyrene	129-00-0	E641B	0.01	µg/L	<0.010	----



Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2425981)						
Quinoline	91-22-5	E641B	0.05	µg/L	<0.050	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests(QC Lot: 2430596)									
Solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	95.3	85.0	115	----
Physical Tests(QC Lot: 2433455)									
pH	----	E108	----	pH units	7 pH units	99.6	98.0	102	----
Anions and Nutrients(QC Lot: 2430699)									
Chloride	16887-00-6	E235.Cl	0.5	mg/L	100 mg/L	98.8	90.0	110	----
Anions and Nutrients(QC Lot: 2434825)									
Sulfate (as SO4)	14808-79-8	E235.SO4	0.3	mg/L	100 mg/L	99.7	90.0	110	----
Cyanides(QC Lot: 2435675)									
Cyanide, strong acid dissociable (Total)	----	E333	0.002	mg/L	0.25 mg/L	96.5	80.0	120	----
Total Metals(QC Lot: 2425039)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	101	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	96.9	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	100	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	97.3	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	99.9	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	99.0	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	99.5	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	102	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	99.6	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	96.4	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	98.0	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	98.9	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	99.9	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	99.4	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	98.6	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	102	80.0	120	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals(QC Lot: 2425039)									
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	97.9	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	95.6	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	94.9	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	96.1	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	102	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	102	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	97.3	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	103	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	89.6	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	104	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	99.5	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	96.3	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	96.2	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	97.0	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	93.4	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	96.2	80.0	120	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	91.5	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	97.9	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	101	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	98.5	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	97.0	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	92.8	80.0	120	----
Dissolved Metals(QC Lot: 2425494)									
Aluminum, dissolved	7429-90-5	E421	0.001	mg/L	2 mg/L	103	80.0	120	----
Antimony, dissolved	7440-36-0	E421	0.0001	mg/L	1 mg/L	96.5	80.0	120	----
Arsenic, dissolved	7440-38-2	E421	0.0001	mg/L	1 mg/L	103	80.0	120	----
Barium, dissolved	7440-39-3	E421	0.0001	mg/L	0.25 mg/L	102	80.0	120	----
Beryllium, dissolved	7440-41-7	E421	0.00002	mg/L	0.1 mg/L	96.2	80.0	120	----
Bismuth, dissolved	7440-69-9	E421	0.00005	mg/L	1 mg/L	94.5	80.0	120	----
Boron, dissolved	7440-42-8	E421	0.01	mg/L	1 mg/L	96.1	80.0	120	----
Cadmium, dissolved	7440-43-9	E421	0.000005	mg/L	0.1 mg/L	98.6	80.0	120	----
Calcium, dissolved	7440-70-2	E421	0.05	mg/L	50 mg/L	99.1	80.0	120	----
Cesium, dissolved	7440-46-2	E421	0.00001	mg/L	0.05 mg/L	96.4	80.0	120	----
Chromium, dissolved	7440-47-3	E421	0.0005	mg/L	0.25 mg/L	100	80.0	120	----
Cobalt, dissolved	7440-48-4	E421	0.0001	mg/L	0.25 mg/L	100	80.0	120	----
Copper, dissolved	7440-50-8	E421	0.0002	mg/L	0.25 mg/L	98.2	80.0	120	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Dissolved Metals(QC Lot: 2425494)									
Iron, dissolved	7439-89-6	E421	0.01	mg/L	1 mg/L	102	80.0	120	----
Lead, dissolved	7439-92-1	E421	0.00005	mg/L	0.5 mg/L	95.8	80.0	120	----
Lithium, dissolved	7439-93-2	E421	0.001	mg/L	0.25 mg/L	96.7	80.0	120	----
Magnesium, dissolved	7439-95-4	E421	0.005	mg/L	50 mg/L	100	80.0	120	----
Manganese, dissolved	7439-96-5	E421	0.0001	mg/L	0.25 mg/L	97.4	80.0	120	----
Molybdenum, dissolved	7439-98-7	E421	0.00005	mg/L	0.25 mg/L	97.2	80.0	120	----
Nickel, dissolved	7440-02-0	E421	0.0005	mg/L	0.5 mg/L	101	80.0	120	----
Phosphorus, dissolved	7723-14-0	E421	0.05	mg/L	10 mg/L	103	80.0	120	----
Potassium, dissolved	7440-09-7	E421	0.05	mg/L	50 mg/L	97.5	80.0	120	----
Rubidium, dissolved	7440-17-7	E421	0.0002	mg/L	0.1 mg/L	103	80.0	120	----
Selenium, dissolved	7782-49-2	E421	0.00005	mg/L	1 mg/L	99.1	80.0	120	----
Silicon, dissolved	7440-21-3	E421	0.05	mg/L	10 mg/L	103	80.0	120	----
Silver, dissolved	7440-22-4	E421	0.00001	mg/L	0.1 mg/L	93.9	80.0	120	----
Sodium, dissolved	7440-23-5	E421	0.05	mg/L	50 mg/L	103	80.0	120	----
Strontium, dissolved	7440-24-6	E421	0.0002	mg/L	0.25 mg/L	100	80.0	120	----
Sulfur, dissolved	7704-34-9	E421	0.5	mg/L	50 mg/L	90.4	80.0	120	----
Tellurium, dissolved	13494-80-9	E421	0.0002	mg/L	0.1 mg/L	99.3	80.0	120	----
Thallium, dissolved	7440-28-0	E421	0.00001	mg/L	1 mg/L	99.0	80.0	120	----
Thorium, dissolved	7440-29-1	E421	0.0001	mg/L	0.1 mg/L	93.8	80.0	120	----
Tin, dissolved	7440-31-5	E421	0.0001	mg/L	0.5 mg/L	97.8	80.0	120	----
Titanium, dissolved	7440-32-6	E421	0.0003	mg/L	0.25 mg/L	97.1	80.0	120	----
Tungsten, dissolved	7440-33-7	E421	0.0001	mg/L	0.1 mg/L	99.8	80.0	120	----
Uranium, dissolved	7440-61-1	E421	0.00001	mg/L	0.005 mg/L	98.8	80.0	120	----
Vanadium, dissolved	7440-62-2	E421	0.0005	mg/L	0.5 mg/L	102	80.0	120	----
Zinc, dissolved	7440-66-6	E421	0.001	mg/L	0.5 mg/L	100.0	80.0	120	----
Zirconium, dissolved	7440-67-7	E421	0.0002	mg/L	0.1 mg/L	95.3	80.0	120	----
Aggregate Organics(QC Lot: 2425554)									
Biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	104	85.0	115	----
Aggregate Organics(QC Lot: 2429174)									
Oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	50 mg/L	88.6	70.0	130	----
Aggregate Organics(QC Lot: 2429175)									
Oil & grease (gravimetric)	----	E567	5	mg/L	100 mg/L	99.8	70.0	130	----
Volatile Organic Compounds(QC Lot: 2425927)									
Benzene	71-43-2	E611N	0.5	µg/L	100 µg/L	104	70.0	130	----
Bromodichloromethane	75-27-4	E611N	1	µg/L	100 µg/L	95.3	70.0	130	----
Bromoform	75-25-2	E611N	1	µg/L	100 µg/L	112	70.0	130	----
Butadiene, 1,3-	106-99-0	E611N	0.2	µg/L	100 µg/L	96.1	60.0	140	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds(QC Lot: 2425927)									
Carbon tetrachloride	56-23-5	E611N	1	µg/L	100 µg/L	106	70.0	130	----
Chlorobenzene	108-90-7	E611N	1	µg/L	100 µg/L	110	70.0	130	----
Chloroethane	75-00-3	E611N	1	µg/L	100 µg/L	102	60.0	140	----
Chloroform	67-66-3	E611N	1	µg/L	100 µg/L	104	70.0	130	----
Chloromethane	74-87-3	E611N	5	µg/L	100 µg/L	112	60.0	140	----
Cymene, p-	99-87-6	E611N	1	µg/L	100 µg/L	104	70.0	130	----
Decane, n-	124-18-5	E611N	1	µg/L	100 µg/L	122	70.0	130	----
Dibromochloromethane	124-48-1	E611N	1	µg/L	100 µg/L	111	70.0	130	----
Dibromoethane, 1,2-	106-93-4	E611N	0.2	µg/L	100 µg/L	107	70.0	130	----
Dichlorobenzene, 1,2-	95-50-1	E611N	0.5	µg/L	100 µg/L	112	70.0	130	----
Dichlorobenzene, 1,3-	541-73-1	E611N	1	µg/L	100 µg/L	113	70.0	130	----
Dichlorobenzene, 1,4-	106-46-7	E611N	1	µg/L	100 µg/L	114	70.0	130	----
Dichloroethane, 1,1-	75-34-3	E611N	1	µg/L	100 µg/L	103	70.0	130	----
Dichloroethane, 1,2-	107-06-2	E611N	1	µg/L	100 µg/L	95.9	70.0	130	----
Dichloroethylene, 1,1-	75-35-4	E611N	1	µg/L	100 µg/L	98.2	70.0	130	----
Dichloroethylene, cis-1,2-	156-59-2	E611N	1	µg/L	100 µg/L	97.2	70.0	130	----
Dichloroethylene, trans-1,2-	156-60-5	E611N	1	µg/L	100 µg/L	96.9	70.0	130	----
Dichloromethane	75-09-2	E611N	1	µg/L	100 µg/L	103	70.0	130	----
Dichloropropane, 1,2-	78-87-5	E611N	1	µg/L	100 µg/L	103	70.0	130	----
Dichloropropylene, cis-1,3-	10061-01-5	E611N	1	µg/L	100 µg/L	91.7	70.0	130	----
Dichloropropylene, trans-1,3-	10061-02-6	E611N	1	µg/L	100 µg/L	103	70.0	130	----
Ethylbenzene	100-41-4	E611N	0.5	µg/L	100 µg/L	113	70.0	130	----
Hexane, n-	110-54-3	E611N	1	µg/L	100 µg/L	99.3	70.0	130	----
Isopropylbenzene	98-82-8	E611N	1	µg/L	100 µg/L	116	70.0	130	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	0.5	µg/L	100 µg/L	106	70.0	130	----
Methylcyclohexane	108-87-2	E611N	1	µg/L	100 µg/L	110	70.0	130	----
Propylbenzene, n-	103-65-1	E611N	1	µg/L	100 µg/L	119	70.0	130	----
Styrene	100-42-5	E611N	0.5	µg/L	100 µg/L	111	70.0	130	----
Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	1	µg/L	100 µg/L	116	70.0	130	----
Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	0.2	µg/L	100 µg/L	104	70.0	130	----
Tetrachloroethylene	127-18-4	E611N	1	µg/L	100 µg/L	110	70.0	130	----
Toluene	108-88-3	E611N	0.4	µg/L	100 µg/L	109	70.0	130	----
Trichloroethane, 1,1,1-	71-55-6	E611N	1	µg/L	100 µg/L	105	70.0	130	----
Trichloroethane, 1,1,2-	79-00-5	E611N	1	µg/L	100 µg/L	106	70.0	130	----
Trichloroethylene	79-01-6	E611N	1	µg/L	100 µg/L	107	70.0	130	----
Trichlorofluoromethane	75-69-4	E611N	1	µg/L	100 µg/L	112	60.0	140	----
Trimethylbenzene, 1,2,4-	95-63-6	E611N	1	µg/L	100 µg/L	113	70.0	130	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds(QC Lot: 2425927)									
Trimethylbenzene, 1,3,5-	108-67-8	E611N	1	µg/L	100 µg/L	110	70.0	130	----
Vinyl chloride	75-01-4	E611N	0.4	µg/L	100 µg/L	113	60.0	140	----
Xylene, m+p-	179601-23-1	E611N	0.4	µg/L	200 µg/L	116	70.0	130	----
Xylene, o-	95-47-6	E611N	0.3	µg/L	100 µg/L	115	70.0	130	----
Hydrocarbons(QC Lot: 2425926)									
VHw (C6-C10)	----	E581.VH+F1	100	µg/L	6310 µg/L	92.7	70.0	130	----
Hydrocarbons(QC Lot: 2425980)									
EPH (C10-C19)	----	E601A	250	µg/L	6491 µg/L	101	70.0	130	----
EPH (C19-C32)	----	E601A	250	µg/L	3363 µg/L	106	70.0	130	----
TEH (C10-C30), BC	----	E601A	250	µg/L	9202 µg/L	103	70.0	130	----
Hydrocarbons Surrogates(QC Lot: 2425926)									
Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1	1	µg/L	1000 µg/L	120	70	130	----
Hydrocarbons Surrogates(QC Lot: 2425980)									
Bromobenzotrifluoride, 2- (EPH surrogate)	392-83-6	E601A	1	µg/L	6316 µg/L	90.7	60	140	----
Volatile Organic Compounds Surrogates(QC Lot: 2425927)									
Bromofluorobenzene, 4-	460-00-4	E611N	1	µg/L	10 µg/L	103	70	130	----
Diffuorobenzene, 1,4-	540-36-3	E611N	1	µg/L	10 µg/L	99.1	70	130	----
Polycyclic Aromatic Hydrocarbons(QC Lot: 2425981)									
Acenaphthene	83-32-9	E641B	0.01	µg/L	0.5 µg/L	116	60.0	130	----
Acenaphthylene	208-96-8	E641B	0.01	µg/L	0.5 µg/L	118	60.0	130	----
Acridine	260-94-6	E641B	0.01	µg/L	0.5 µg/L	102	60.0	130	----
Anthracene	120-12-7	E641B	0.01	µg/L	0.5 µg/L	120	60.0	130	----
Benz(a)anthracene	56-55-3	E641B	0.01	µg/L	0.5 µg/L	118	60.0	130	----
Benzo(a)pyrene	50-32-8	E641B	0.005	µg/L	0.5 µg/L	111	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641B	0.01	µg/L	0.5 µg/L	99.0	60.0	130	----
Benzo(b+j+k)fluoranthene	n/a	E641B	----	µg/L	1 µg/L	100	60.0	130	----
Benzo(e)pyrene	192-97-2	E641B	0.01	µg/L	0.5 µg/L	100	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641B	0.01	µg/L	0.5 µg/L	118	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641B	0.01	µg/L	0.5 µg/L	101	60.0	130	----
Chrysene	218-01-9	E641B	0.01	µg/L	0.5 µg/L	123	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641B	0.005	µg/L	0.5 µg/L	125	60.0	130	----
Dimethylbenz(a)anthracene, 7,12-	57-97-6	E641B	0.01	µg/L	0.5 µg/L	96.3	40.0	130	----
Fluoranthene	206-44-0	E641B	0.01	µg/L	0.5 µg/L	119	60.0	130	----
Fluorene	86-73-7	E641B	0.01	µg/L	0.5 µg/L	110	60.0	130	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641B	0.01	µg/L	0.5 µg/L	126	60.0	130	----
Methylcholanthrene, 3-	56-49-5	E641B	0.01	µg/L	0.5 µg/L	129	50.0	130	----
Methylnaphthalene, 1-	90-12-0	E641B	0.01	µg/L	0.5 µg/L	105	60.0	130	----



Sub-Matrix: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons(QC Lot: 2425981)									
Methylnaphthalene, 2-	91-57-6	E641B	0.01	µg/L	0.5 µg/L	116	60.0	130	----
Naphthalene	91-20-3	E641B	0.05	µg/L	0.5 µg/L	107	50.0	130	----
Nitropyrene, 4-	57835-92-4	E641B	0.1	µg/L	0.5 µg/L	134	50.0	140	----
Phenanthrene	85-01-8	E641B	0.02	µg/L	0.5 µg/L	119	60.0	130	----
Pyrene	129-00-0	E641B	0.01	µg/L	0.5 µg/L	118	60.0	130	----
Quinoline	91-22-5	E641B	0.05	µg/L	0.5 µg/L	110	60.0	130	----
Polycyclic Aromatic Hydrocarbons Surrogates(QC Lot: 2425981)									
Chrysene-d12	1719-03-5	E641B	0.1	µg/L	0.8421 µg/L	122	60	130	----
Naphthalene-d8	1146-65-2	E641B	0.1	µg/L	0.8421 µg/L	106	50	130	----
Phenanthrene-d10	1517-22-2	E641B	0.1	µg/L	0.8421 µg/L	118	60	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for

Sub-Matrix: Water

					Matrix Spike (MS) Report				
					Spike	Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High
Anions and Nutrients(QC Lot: 2430699)									
VA26A1743-002	Anonymous	Chloride	16887-00-6	E235.Cl	9850 mg/L	10000 mg/L	98.5	75.0	125
Cyanides(QC Lot: 2435675)									
VA26A2072-002	Anonymous	Cyanide, strong acid dissociable (Total)	----	E333	1.12 mg/L	1.25 mg/L	89.4	75.0	125
Total Metals(QC Lot: 2425039)									
VA26A1286-004	Anonymous	Aluminum, total	7429-90-5	E420	0.198 mg/L	0.2 mg/L	99.0	70.0	130
		Antimony, total	7440-36-0	E420	0.0191 mg/L	0.02 mg/L	95.6	70.0	130
		Arsenic, total	7440-38-2	E420	0.0195 mg/L	0.02 mg/L	97.7	70.0	130
		Barium, total	7440-39-3	E420	0.0188 mg/L	0.02 mg/L	94.2	70.0	130
		Beryllium, total	7440-41-7	E420	0.0395 mg/L	0.04 mg/L	98.7	70.0	130
		Bismuth, total	7440-69-9	E420	0.0107 mg/L	0.01 mg/L	107	70.0	130
		Boron, total	7440-42-8	E420	0.106 mg/L	0.1 mg/L	106	70.0	130
		Cadmium, total	7440-43-9	E420	0.00403 mg/L	0.004 mg/L	101	70.0	130
		Calcium, total	7440-70-2	E420	3.97 mg/L	4 mg/L	99.1	70.0	130
		Cesium, total	7440-46-2	E420	0.00990 mg/L	0.01 mg/L	99.0	70.0	130



Sub-Matrix: Water

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Total Metals(QC Lot: 2425039)										
		Chromium, total	7440-47-3	E420	0.0390 mg/L	0.04 mg/L	97.5	70.0	130	---
		Cobalt, total	7440-48-4	E420	0.0197 mg/L	0.02 mg/L	98.6	70.0	130	---
		Copper, total	7440-50-8	E420	0.0193 mg/L	0.02 mg/L	96.7	70.0	130	---
		Iron, total	7439-89-6	E420	1.97 mg/L	2 mg/L	98.7	70.0	130	---
		Lead, total	7439-92-1	E420	0.0199 mg/L	0.02 mg/L	99.4	70.0	130	---
		Lithium, total	7439-93-2	E420	0.100 mg/L	0.1 mg/L	100	70.0	130	---
		Magnesium, total	7439-95-4	E420	0.952 mg/L	1 mg/L	95.2	70.0	130	---
		Manganese, total	7439-96-5	E420	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	---
		Molybdenum, total	7439-98-7	E420	0.0190 mg/L	0.02 mg/L	95.2	70.0	130	---
		Nickel, total	7440-02-0	E420	0.0388 mg/L	0.04 mg/L	96.9	70.0	130	---
		Phosphorus, total	7723-14-0	E420	9.59 mg/L	10 mg/L	95.9	70.0	130	---
		Potassium, total	7440-09-7	E420	4.04 mg/L	4 mg/L	101	70.0	130	---
		Rubidium, total	7440-17-7	E420	0.0195 mg/L	0.02 mg/L	97.3	70.0	130	---
		Selenium, total	7782-49-2	E420	0.0396 mg/L	0.04 mg/L	98.9	70.0	130	---
		Silicon, total	7440-21-3	E420	10.4 mg/L	10 mg/L	104	70.0	130	---
		Silver, total	7440-22-4	E420	0.00394 mg/L	0.004 mg/L	98.5	70.0	130	---
		Sodium, total	7440-23-5	E420	2.07 mg/L	2 mg/L	103	70.0	130	---
		Strontium, total	7440-24-6	E420	0.0194 mg/L	0.02 mg/L	97.1	70.0	130	---
		Sulfur, total	7704-34-9	E420	20.5 mg/L	20 mg/L	102	70.0	130	---
		Tellurium, total	13494-80-9	E420	0.0385 mg/L	0.04 mg/L	96.2	70.0	130	---
		Thallium, total	7440-28-0	E420	0.00395 mg/L	0.004 mg/L	98.8	70.0	130	---
		Thorium, total	7440-29-1	E420	0.0160 mg/L	0.02 mg/L	80.1	70.0	130	---
		Tin, total	7440-31-5	E420	0.0191 mg/L	0.02 mg/L	95.3	70.0	130	---
		Titanium, total	7440-32-6	E420	0.0373 mg/L	0.04 mg/L	93.2	70.0	130	---
		Tungsten, total	7440-33-7	E420	0.0191 mg/L	0.02 mg/L	95.3	70.0	130	---
		Uranium, total	7440-61-1	E420	0.00399 mg/L	0.004 mg/L	99.6	70.0	130	---
		Vanadium, total	7440-62-2	E420	0.0960 mg/L	0.1 mg/L	96.0	70.0	130	---
		Zinc, total	7440-66-6	E420	0.385 mg/L	0.4 mg/L	96.3	70.0	130	---
		Zirconium, total	7440-67-7	E420	0.0391 mg/L	0.04 mg/L	97.8	70.0	130	---
Dissolved Metals(QC Lot: 2425494)										
KS2600167-003	Anonymous	Aluminum, dissolved	7429-90-5	E421	1.02 mg/L	1 mg/L	102	70.0	130	---
		Antimony, dissolved	7440-36-0	E421	0.0978 mg/L	0.1 mg/L	97.8	70.0	130	---
		Arsenic, dissolved	7440-38-2	E421	0.104 mg/L	0.1 mg/L	104	70.0	130	---
		Barium, dissolved	7440-39-3	E421	ND	---	ND	70.0	130	---
		Beryllium, dissolved	7440-41-7	E421	0.195 mg/L	0.2 mg/L	97.7	70.0	130	---
		Bismuth, dissolved	7440-69-9	E421	0.0474 mg/L	0.05 mg/L	94.8	70.0	130	---
		Boron, dissolved	7440-42-8	E421	0.485 mg/L	0.5 mg/L	97.0	70.0	130	---



Sub-Matrix: Water

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Dissolved Metals(QC Lot: 2425494)										
		Cadmium, dissolved	7440-43-9	E421	0.0199 mg/L	0.02 mg/L	99.3	70.0	130	---
		Calcium, dissolved	7440-70-2	E421	ND	----	ND	70.0	130	---
		Cesium, dissolved	7440-46-2	E421	0.0482 mg/L	0.05 mg/L	96.4	70.0	130	---
		Chromium, dissolved	7440-47-3	E421	0.202 mg/L	0.2 mg/L	101	70.0	130	---
		Cobalt, dissolved	7440-48-4	E421	0.103 mg/L	0.1 mg/L	103	70.0	130	---
		Copper, dissolved	7440-50-8	E421	0.0997 mg/L	0.1 mg/L	99.7	70.0	130	---
		Iron, dissolved	7439-89-6	E421	9.71 mg/L	10 mg/L	97.1	70.0	130	---
		Lead, dissolved	7439-92-1	E421	0.0942 mg/L	0.1 mg/L	94.2	70.0	130	---
		Lithium, dissolved	7439-93-2	E421	0.485 mg/L	0.5 mg/L	96.9	70.0	130	---
		Magnesium, dissolved	7439-95-4	E421	ND	----	ND	70.0	130	---
		Manganese, dissolved	7439-96-5	E421	ND	----	ND	70.0	130	---
		Molybdenum, dissolved	7439-98-7	E421	ND	----	ND	70.0	130	---
		Nickel, dissolved	7440-02-0	E421	0.204 mg/L	0.2 mg/L	102	70.0	130	---
		Phosphorus, dissolved	7723-14-0	E421	52.3 mg/L	50 mg/L	105	70.0	130	---
		Potassium, dissolved	7440-09-7	E421	ND	----	ND	70.0	130	---
		Rubidium, dissolved	7440-17-7	E421	0.102 mg/L	0.1 mg/L	102	70.0	130	---
		Selenium, dissolved	7782-49-2	E421	0.198 mg/L	0.2 mg/L	99.2	70.0	130	---
		Silicon, dissolved	7440-21-3	E421	50.0 mg/L	50 mg/L	99.9	70.0	130	---
		Silver, dissolved	7440-22-4	E421	0.0188 mg/L	0.02 mg/L	94.1	70.0	130	---
		Sodium, dissolved	7440-23-5	E421	ND	----	ND	70.0	130	---
		Strontium, dissolved	7440-24-6	E421	ND	----	ND	70.0	130	---
		Sulfur, dissolved	7704-34-9	E421	ND	----	ND	70.0	130	---
		Tellurium, dissolved	13494-80-9	E421	0.197 mg/L	0.2 mg/L	98.4	70.0	130	---
		Thallium, dissolved	7440-28-0	E421	0.0193 mg/L	0.02 mg/L	96.3	70.0	130	---
		Thorium, dissolved	7440-29-1	E421	0.0983 mg/L	0.1 mg/L	98.3	70.0	130	---
		Tin, dissolved	7440-31-5	E421	0.0963 mg/L	0.1 mg/L	96.3	70.0	130	---
		Titanium, dissolved	7440-32-6	E421	0.204 mg/L	0.2 mg/L	102	70.0	130	---
		Tungsten, dissolved	7440-33-7	E421	0.0987 mg/L	0.1 mg/L	98.7	70.0	130	---
		Uranium, dissolved	7440-61-1	E421	ND	----	ND	70.0	130	---
		Vanadium, dissolved	7440-62-2	E421	0.519 mg/L	0.5 mg/L	104	70.0	130	---
		Zinc, dissolved	7440-66-6	E421	2.04 mg/L	2 mg/L	102	70.0	130	---
		Zirconium, dissolved	7440-67-7	E421	0.195 mg/L	0.2 mg/L	97.3	70.0	130	---
Volatile Organic Compounds(QC Lot: 2425927)										
VA26A1215-001	AH26-01	Benzene	71-43-2	E611N	102 µg/L	100 µg/L	102	60.0	140	---
		Bromodichloromethane	75-27-4	E611N	94.9 µg/L	100 µg/L	94.9	60.0	140	---
		Bromoform	75-25-2	E611N	109 µg/L	100 µg/L	109	60.0	140	---
		Butadiene, 1,3-	106-99-0	E611N	89.8 µg/L	100 µg/L	89.8	50.0	150	---



Sub-Matrix: Water

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Volatile Organic Compounds(QC Lot: 2425927)										
		Carbon tetrachloride	56-23-5	E611N	102 µg/L	100 µg/L	102	60.0	140	---
		Chlorobenzene	108-90-7	E611N	107 µg/L	100 µg/L	107	60.0	140	---
		Chloroethane	75-00-3	E611N	100 µg/L	100 µg/L	100	50.0	150	---
		Chloroform	67-66-3	E611N	102 µg/L	100 µg/L	102	60.0	140	---
		Chloromethane	74-87-3	E611N	110 µg/L	100 µg/L	110	50.0	150	---
		Cymene, p-	99-87-6	E611N	96.3 µg/L	100 µg/L	96.3	60.0	140	---
		Decane, n-	124-18-5	E611N	115 µg/L	100 µg/L	115	60.0	140	---
		Dibromochloromethane	124-48-1	E611N	110 µg/L	100 µg/L	110	60.0	140	---
		Dibromoethane, 1,2-	106-93-4	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Dichlorobenzene, 1,2-	95-50-1	E611N	109 µg/L	100 µg/L	109	60.0	140	---
		Dichlorobenzene, 1,3-	541-73-1	E611N	107 µg/L	100 µg/L	107	60.0	140	---
		Dichlorobenzene, 1,4-	106-46-7	E611N	109 µg/L	100 µg/L	109	60.0	140	---
		Dichloroethane, 1,1-	75-34-3	E611N	101 µg/L	100 µg/L	101	60.0	140	---
		Dichloroethane, 1,2-	107-06-2	E611N	96.3 µg/L	100 µg/L	96.3	60.0	140	---
		Dichloroethylene, 1,1-	75-35-4	E611N	94.1 µg/L	100 µg/L	94.1	60.0	140	---
		Dichloroethylene, cis-1,2-	156-59-2	E611N	97.1 µg/L	100 µg/L	97.1	60.0	140	---
		Dichloroethylene, trans-1,2-	156-60-5	E611N	94.5 µg/L	100 µg/L	94.5	60.0	140	---
		Dichloromethane	75-09-2	E611N	104 µg/L	100 µg/L	104	60.0	140	---
		Dichloropropane, 1,2-	78-87-5	E611N	101 µg/L	100 µg/L	101	60.0	140	---
		Dichloropropylene, cis-1,3-	10061-01-5	E611N	91.7 µg/L	100 µg/L	91.7	60.0	140	---
		Dichloropropylene, trans-1,3-	10061-02-6	E611N	102 µg/L	100 µg/L	102	60.0	140	---
		Ethylbenzene	100-41-4	E611N	107 µg/L	100 µg/L	107	60.0	140	---
		Hexane, n-	110-54-3	E611N	92.8 µg/L	100 µg/L	92.8	60.0	140	---
		Isopropylbenzene	98-82-8	E611N	109 µg/L	100 µg/L	109	60.0	140	---
		Methyl-tert-butyl ether [MTBE]	1634-04-4	E611N	105 µg/L	100 µg/L	105	60.0	140	---
		Methylcyclohexane	108-87-2	E611N	105 µg/L	100 µg/L	105	60.0	140	---
		Propylbenzene, n-	103-65-1	E611N	113 µg/L	100 µg/L	113	60.0	140	---
		Styrene	100-42-5	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Tetrachloroethane, 1,1,1,2-	630-20-6	E611N	111 µg/L	100 µg/L	111	60.0	140	---
		Tetrachloroethane, 1,1,2,2-	79-34-5	E611N	102 µg/L	100 µg/L	102	60.0	140	---
		Tetrachloroethylene	127-18-4	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Toluene	108-88-3	E611N	104 µg/L	100 µg/L	104	60.0	140	---
		Trichloroethane, 1,1,1-	71-55-6	E611N	101 µg/L	100 µg/L	101	60.0	140	---
		Trichloroethane, 1,1,2-	79-00-5	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Trichloroethylene	79-01-6	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Trichlorofluoromethane	75-69-4	E611N	109 µg/L	100 µg/L	109	50.0	150	---
		Trimethylbenzene, 1,2,4-	95-63-6	E611N	105 µg/L	100 µg/L	105	60.0	140	---



Sub-Matrix: Water

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery (%)		Qualifier
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	
Volatile Organic Compounds(QC Lot: 2425927)										
		Trimethylbenzene, 1,3,5-	108-67-8	E611N	101 µg/L	100 µg/L	101	60.0	140	---
		Vinyl chloride	75-01-4	E611N	106 µg/L	100 µg/L	106	60.0	140	---
		Xylene, m+p-	179601-23-1	E611N	222 µg/L	200 µg/L	111	60.0	140	---
		Xylene, o-	95-47-6	E611N	109 µg/L	100 µg/L	109	60.0	140	---
Hydrocarbons(QC Lot: 2425926)										
VA26A1193-001	Anonymous	VHw (C6-C10)	----	E581.VH+F1	6860 µg/L	6310 µg/L	109	60.0	140	---
Hydrocarbons Surrogates(QC Lot: 2425926)										
		Dichlorotoluene, 3,4-	95-75-0	E581.VH+F1	1160 µg/L	1000 µg/L	116	70.0	130	---
Volatile Organic Compounds Surrogates(QC Lot: 2425927)										
		Bromofluorobenzene, 4-	460-00-4	E611N	10.4 µg/L	10 µg/L	104	70.0	130	---
		Difluorobenzene, 1,4-	540-36-3	E611N	9.9 µg/L	10 µg/L	99.4	70.0	130	---



COC Number: 23 - 1157890

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Canada Toll Free: 1 800 668 9878

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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white-report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

JAN 2023 FROM



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