GEMTEC
Consulting Engineers and Scientists

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July 11, 2025 File: 103940.007

Broccolini Investment Inc.
130 Slater Street, Suite 1300
Ottawa, Ontario
K1P 6E2

Attention: Shawn Bardell P.Eng., MBA,

Re: Soil Quality Report
Municipal Watermain Investigation – Proposed Nokia Campus
570 March Road
Ottawa, Ontario

INTRODUCTION

This letter provides the results of the soil sampling program completed by GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) to support excess soil beneficial re-use planning for the Municipal Watermain Investigation – for the Proposed Nokia Campus project at 570 March Road in Ottawa, Ontario (herein referred to as the 'Project Area') for Broccolini Investment Inc (Broccolini).

BACKGROUND

Based on information provided by Broccolini, GEMTEC understands that redevelopment plans are being prepared for the parcel of land located at 570 March Road in Ottawa, Ontario. Full details of the proposed redevelopment were not available at the time of reporting. Several previous geotechnical investigations have been completed to inform the design of the redevelopment works.

As part of the current scope, a supplemental investigation was required, including due diligence excess soil investigations, to support the planned installation of a municipal watermain along Legget Drive. The watermain is expected to be 300 millimetres in diameter and is assumed to be installed at an approximate depth of 2.4 metres below existing ground surface.

Additionally, two related infrastructure projects are being undertaken in the surrounding area as part of a broader redevelopment initiative. However, the environmental components of these works are being addressed under separate covers:

- Construction of a new intersection to provide access to the development from March Road; and

- Installation of a 250-millimetre diameter sanitary sewer along Legget Drive, along with supplemental subsurface investigations for buildings across the campus. The sanitary sewer is anticipated to have invert levels ranging from approximately 2.5 to 3.0 metres below grade.

Application of Ontario Regulation 406/19

Based on review of the provided information, it is GEMTEC's opinion that the work carried out for the watermain portion of the project will likely be exempt from Section 8 (Notice to be Filed on Registry) under Schedule 2 of Ontario Regulation (O.Reg) 406/19. Accordingly, the report herein has been completed as a due diligence measure and does not meet the requirements to support project registration as per O.Reg 406/19.

Ultimately it is up to the Project Leader to determine if the project requires registration at per O.Reg 406/19, should the assumption summarized above not be accurate an additional scope of work may be required.

SCOPE OF WORK

Based on GEMTEC's understanding of the excess soils management requirements, the following services were completed in support of the project:

- Environmental Field Investigation; and,
- Soil Quality Report.

SELECTION OF REGULATORY CRITERIA

The selection of applicable provincial standards for comparison to soil analytical data was based on a review of various site characteristics as well as potential soil management and disposal options which will need to be considered as part of the project. It is anticipated that the construction may involve the potential re-use of excavated soils off-site at a beneficial re-use site. Therefore, soil analytical results were compared to applicable provincial standards for the contaminants of concern considering these requirements.

Off-Site Re-use Excess Soil Quality Standards

In the absence of a confirmed beneficial re-use site, all recommendations included in this report regarding beneficial soil re-use at a receiving site are based on GEMTEC's assumption for generic beneficial re-use sites which may be considered. Soil quality results as provided in this report should be re-assessed by a Qualified Person (QP_{ESA}) for suitability if a potential beneficial re-use site is identified in the future that does not meet these criteria, or, in the event that site-specific instruments are in place at the beneficial re-use site.

Generic site characteristics and potential reuse of soils off-Site at Ontario reuse sites were used to determine the Excess Soil Quality Standards (ESQS) applied to soil quality data as specified in O.Reg. 406/19 and associated Soil Rules.

Based on the above discussion, the following provincial standards were selected to assess the soil analytical results for potential reuse off-Site.

Potential Re-Use Off-Site as Clean Fill:

- MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Table 1: Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).
- MECP Table 1 Ag/Ot LSL: Ontario Ministry of the Environment, Conservation and Parks (MECP), "Rules for Soil Management and Excess Soil Quality Standards" (Soil Rules), February 2024. Table 1: Leachate Screening Levels (LSL) for Full Depth Background Site Condition Standards for Agri/Ot Property Use.

Potential Re-Use Off-Site:

- MECP Table 2.1 RPI ESQS: MECP, Soil Rules, February 2024. Table 2.1: Full Depth ESQS in a Potable Ground Water Condition for Residential/ Parkland/ Institutional (RPI) Property Use.
- MECP Table 2.1 RPI LSL: MECP, Soil Rules, February 2024. Table 2.1: LSL for Full Depth Excess Soil in a Potable Ground Water Condition for RPI Property Use.
- MECP Table 2.1 ICC ESQS: MECP, Soil Rules, February 2024. Table 2.1: Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.
- MECP Table 2.1 ICC LSL: MECP, Soil Rules, February 2024. Table 2.1: LSL for Full Depth Excess Soil in a Potable Ground Water Condition for ICC Property Use.
- MECP Table 3.1 ICC ESQS: MECP, Soil Rules, February 2024. Table 3.1: Full Depth ESQS in a Non-Potable Ground Water Condition for Industrial/ Commercial/ community (ICC) Property Use.
- MECP Table 3.1 ICC LSL: MECP, Soil Rules, February 2024. Table 3.1: LSL for Full Depth Excess Soil in a Non-Potable Ground Water Condition for ICC Property Use.
- MECP Table 4.1 ICC ESQS: MECP, Soil Rules, February 2024. Table 4.1: Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.
- MECP Table 4.1 ICC LSL: MECP, Soil Rules, February 2024. Table 4.1: LSL for Stratified Excess Soil in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Soil Waste Disposal Classification

Considering the disposal of excess soils off-site, the following provincial standards were considered to be applicable to the TCLP soil leachate sampling quality results obtained during the environmental investigation:

- MECP O.Reg. 347/558 Schedule 4, Leachate Quality Criteria, to evaluate waste classification (hazardous or non-hazardous waste) for on-site soils (MECP, 2000).

METHODOLOGY

Environmental Soil Sampling and Field Investigation

GEMTEC completed a due diligence soil quality screening investigation in conjunction with the geotechnical field investigation. Soil samples were collected from boreholes advanced by George Downing Estate Drilling Ltd. along the construction alignment. Prior to drilling, GEMTEC retained a utility locating subcontractor to complete public and private utility clearances, as required, to enable completion of the field program.

The soil sampling field methodology was overseen by a member of GEMTEC's engineering staff. Based on GEMTEC's review of the Project Area, four boreholes were advanced between June 18 and 20, 2025. Eight bulk soil samples, two from each borehole, were collected for analysis of the contaminants of potential concern (COPCs) as outlined in GEMTEC's proposal dated April 29, 2025. The location of the boreholes advanced is provided in the Site Plan, Figure A.1, Attachment A. Soil samples recovered from the boreholes during the field investigation were collected following the *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario* (MOE, 1996). The borehole logs are provided in Attachment B.

The soil samples were collected directly into laboratory-supplied containers and were immediately placed in a laboratory-supplied cooler to maintain the required temperature range. The remainder of the soils were placed in a re-sealable bag to allow for field screening. Clean gloves were worn and changed between each sample interval to prevent cross-contamination. Soil samples were inspected in the field for visual, tactile, and olfactory evidence of impact.

Soil samples for analytical submission were selected based on visual, olfactory, and tactile evidence of impact. Soil samples selected for analysis were submitted to Bureau Veritas (BV), a CALA accredited laboratory, under standard chain of custody procedures for analysis of the identified COPCs.

Further to the bulk soil samples, one composite soil sample was submitted for Toxicity Characterization Leaching Procedure (TCLP) to support flexible soil management and/or disposal options.

Note: *GEMTEC has not provided an allowance for the assessment of the geotechnical suitability for any of the excavated and/ or excess materials for re-use in this report – details regarding the*

geotechnical suitability of soil can be found in the geotechnical design report, under separate cover.

SOIL ASSESSMENT RESULTS

Asphaltic concrete was encountered from ground surface in all of the boreholes, the thickness of asphaltic concrete ranges from 40 to 160 millimetres. The boreholes were advanced through the existing pavement structure, into base and subbase layers of varying mixtures of crushed, sand and gravel with trace to some non-cohesive silt. The combined thickness of the base and subbase ranges from about 520 to 750 millimetres.

Layers of fill material were encountered in boreholes 25-101 and 25-102 below the pavement structure. At these locations, the fill material extends to a depth of about 1.1 metres at which depth auger refusal occurred in borehole 25-101. The fill material encountered was primarily sand, with variable amounts gravel, and silt. A thin native deposit of fine-grained cohesive soil was encountered below the pavement materials in boreholes 25-103. The deposit can be described as clayey silt with trace sand.

Sandstone bedrock was proven at depths of 1.1 and 1.0 metres by coring below the level of auger refusal at the location of boreholes 25-101 and 25-103, respectively. At the location of borehole 25-101, below a relatively thin upper fractured zone the sandstone is generally fresh, and thinly to medium bedded within the depth of coring. At the location of borehole 25-103 the sandstone is fresh and generally very thinly to medium bedded.

Additional information on soil conditions encountered during the field investigation can be found in the borehole logs presented in Appendix B. During drilling, no visual evidence of debris, or staining was noted.

Analytical Results

A summary of the soil sampling program analytical results for the bulk soil and leachate soil results, including exceedances to the applicable regulatory criteria, are presented in Tables 1 and 2, respectively.

Table 1: Summary of Bulk Soil Sampling Program Analytical Results

Soil Sample	Depth of samples (mbgs)	Analysis	MECP Exceedances				
			MECP Table 1 Ag/Ot SCS	MECP Table 2.1 RPI ESQS	MECP Table 2.1 ICC ESQS	MECP Table 3.1 ICC ESQS	MECP Table 4.1 ICC ESQS
BH25-101 SA1	0.14 – 0.61	M&I, PAHs, BTEX/PHC F1-F4	EC, PHC F2, PHC F3, PHC F4 & F4G	EC, PHC F2, PHC F3	EC, PHC F3	EC	EC, PHC F3
BH25-101 SA3E	0.76 – 1.07	M&I, PAHs, BTEX/PHC F1-F4	EC, SAR, Chromium, PHC F2, PHC F4 & F4G	EC, PHC F2	EC	EC	EC
BH25-102 SA1	0.18 – 0.61	M&I, PAHs, BTEX/PHC F1-F4	EC, SAR, Hexane, PHC F2, PHC F4 & F4G	PHC F2	-	-	-
BH25-102 SA5E	0.61 – 0.91	M&I, PAHs, BTEX/PHC F1-F4	EC, SAR, PHC F2	EC, PHC F2	-	-	-
BH25-103 SA1	0.23 – 0.61	M&I, PAHs, BTEX/PHC F1-F4	EC, SAR, Barium, PHC F4 & F4G	EC	EC	EC	EC
BH25-103 SA2	0.76 – 0.94	M&I, PAHs, BTEX/PHC F1-F4	EC, SAR, Hexane	EC, SAR	-	-	-
BH25-104 SA1	0.13 – 0.53	M&I, PAHs, BTEX/PHC F1-F4	SAR, PHC F2	SAR, PHC F2	-	-	-
BH25-104 SA2E	0.20 – 0.43	M&I, PAHs, BTEX/PHC F1-F4	SAR, PHC F2, PHC F4	SAR, PHC F2	-	-	-

Notes:

mbgs – metres below ground surface
M&I – Metals and Inorganics

PAHs – Polycyclic Aromatic Hydrocarbons
VOCs – Volatile Organic Compounds
PHC F1-F4 – Petroleum Hydrocarbons Four Fractions
EC – Electrical Conductivity
SAR – Sodium Adsorption Ratio
Green – Based on salting activities (during winter months) in proximity of the sampling location within the Project Area limits (along ROWs).
1. MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agri/Ot.
2. MECP Table 2.1 RPI ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for RPI Property Use.
3. MECP Table 2.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.
4. MECP Table 3.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Non-Potable Ground Water Condition for ICC Property Use.
5. MECP Table 4.1 ICC ESQS: MECP, Soil Rules, February 2024. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Table 2: Summary of Leachate Soil Sampling Analytical Results

TCLP Sample ID	O.Reg. 347/558 Exceedances
TCLP – COMP 100	None

Notes:
O.Reg. 347/558: Schedule 4, Leachate Quality Criteria, to evaluate waste classification.

Full analytical results are illustrated on Soil Exceedances Summary, Figure A.2, Attachment A and presented in Tables C1 and C2, Attachment C. Laboratory certificates of analysis are provided in Attachment D.

Quality Assurance/Quality Control

Laboratory Internal QA/QC

BV completed a variety of internal quality assurance/ quality control (QA/QC) measures on the soil samples submitted during the field program. BV is accredited by the Standards Council of Canada (SCC) in cooperation with the Canadian Association of Laboratory Accreditation (CALA) for specific environmental tests listed in the scope of accreditation approved by the SCC and registered with the association. BV is also accredited to the ISO/IEC 17025 standard and employs in-house quality assurance and quality control programs to govern sample analysis including the analysis of method blanks, spiked blanks, and the analysis of duplicates (10%) for each sample batch.

One QC qualifier was summarized for the matrix spike of Chromium (VI), however based on the other QA/QC results, the analytical data and all QC in the report were validated on the Certificate of Analysis from the laboratory (Attachment D).

EXCESS SOIL RE-USE RECOMMENDATIONS

Based on the summary of soil quality presented in the above section, GEMTEC offers the following recommendations to optimize the beneficial re-use opportunities and to reduce the volume of material requiring landfill disposal.

Soil for off-site re-use applicable to Table 2.1 RPI ESQS:

- Base/Subbase and clayey silt from BH25-103 can be re-used at receiving sites meeting MECP Table 2.1 RPI ESQS (with EC/SAR allowances).

Soil for off-site re-use applicable to Table 2.1 ICC ESQS:

- Soil excavated from the vicinity of the following locations can be re-used at receiving sites meeting MECP Table 2.1 ICC ESQS:
  - Fill material from BH25-101 (with EC allowances);
  - Base/Subbase and fill material from BH25-102; and
  - Base/Subbase from BH25-104.

Soil for off-site re-use applicable to Table 3.1 ICC ESQS:

- Base/Subbase material excavated from the vicinity of BH25-101 can be re-used at receiving sites meeting MECP Table 3.1 ICC ESQS (with EC allowances).

Soil applicable to Excess Soil for disposal at an MECP-licensed landfill

- Soil excavated from across the site can be disposed of at a Class 1 Soil Management Facility or at a MECP licensed landfill facility as non-hazardous waste.

Based on the results presented above, GEMTEC recommends sending soils from the full depth of proposed excavation works between BH25-102 to BH25-104 to a beneficial re-use site capable of accepting Table 2.1 ICC quality soil such as a pit or quarry. Base/subbase excavated between BH25-101 and BH25-102 is recommended for landfill disposal if removed from Site. Gravelly sand fill between BH25-101 and BH25-102 can be sent to any beneficial re-use site capable of accepting Table 2.1 ICC quality soil. All soil is suitable for re-use on-Site as trench backfill provided the material meets appropriate geotechnical requirements.

Salt Allowance Requirements

The beneficial reuse of salt impacted soil is permitted in some instances, as long as reuse of these soils adhere to the requirements as summarized in the Rules Document for reuse of 'Salt-Impacted Excess Soil', namely:

- The excess soil is finally placed at one of the following locations:
    - Where it is reasonable to expect that the soil will be affected by the same chemicals as a result of continued application of a substance for the safety of vehicular or pedestrian traffic under conditions of snow or ice;
    - At an industrial or commercial property use;
    - At a community, parkland, institutional, or residential property use given:
        - Soil may be placed at least 1.5 metres below the surface of the soil; or
        - Soil is placed in accordance with an official landscape plan.
    - At a agricultural or other property use:
        - Soil may be placed at least 1.5 metres below the surface of the soil; or
        - Soil is placed in areas that will not be vegetated and only to achieve grade necessary to construction a planned building, install a driveway or a parking area.

AND:

- The excess soil is not finally placed at any of the following locations:
    - within 30 metres of a waterbody;

- within 100 metres of a potable water well or area with an intended property use that may require a potable water well; or,
- a location that will be used for growing crops or pasturing livestock unless the excess soil is placed 1.5 metres or greater below the soil surface.

AND:

The Project Leader or operator of the Project Area has informed the reuse site owner or operator that the excess soil is from a location that may be expected to contain the chemical and, if sampling and analysis has been conducted in accordance with the regulation. The project leader or operator of the Project Area has provided relevant sampling results to the reuse site owner or operator, including the soil characterization report if prepared, and identified and communicated any potential risks to surface water and ground water to the reuse site owner or operator.

LIMITATION OF LIABILITY

This report and the work referred to within it has been undertaken by GEMTEC Consulting Engineers and Scientists Limited for Broccolini. It is intended for the exclusive use of Broccolini. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC and Broccolini. Nothing in this report is intended to provide a legal opinion.

The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared. This report has been prepared for the application noted and it is based, in part, on visual observations made at the site, subsurface investigations at discrete locations and depths and laboratory analyses of specific chemical parameters and material during a specific time interval, all as described in the report. Unless otherwise stated, the findings contained in this report cannot be extrapolated or extended to previous or future site conditions, portions of the site that were unavailable for direct investigation, subsurface locations on the site that were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Chemical parameters other than those addressed by the investigation described in this report may exist in soil and groundwater elsewhere on the site, the chemical parameters addressed in the report may exist in soil and groundwater at other locations at the site that were not investigated, and concentrations of the chemical parameters addressed which are different from those reported may exist at other locations on the site than those from where the samples were taken. Should new information become available during future work, including excavations, borings, or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions presented herein.

CLOSURE

We trust this letter provides sufficient information for your present purposes. If you have any questions concerning this letter, please do not hesitate to contact our office.

Sincerely,

Nicole Soucy, M.A.Sc., P.Eng, QP_{ESA}
Environmental Engineer

Daniel Elliot, P.Geo., QP_{ESA}
Senior Environmental Geoscientist

REFERENCES

Google Earth™ Satellite Imagery, 2019.

Laboratory Services Branch, Ministry of the Environment (MOE). Protocol for Analytical Methods Used in the Assessment of properties Under Part XV.1 of the Environmental Protection Act. March 9, 2004, as amended July 1, 2011.

Ontario Ministry of the Environment, Conservation and Parks (MECP). Ontario Regulation 153/04, Made under the Environmental Protection Act, Part XV.1 – Records of Site Condition. October 31, 2011 updated January 1, 2014.

Ontario Ministry of the Environment, Conservation and Parks (MECP). Ontario Regulation 153/04, Soil, ground water and sediment standards for use under Part XV.1 of the Environmental Protection Act. October 31, 2011 updated January 1, 2014.

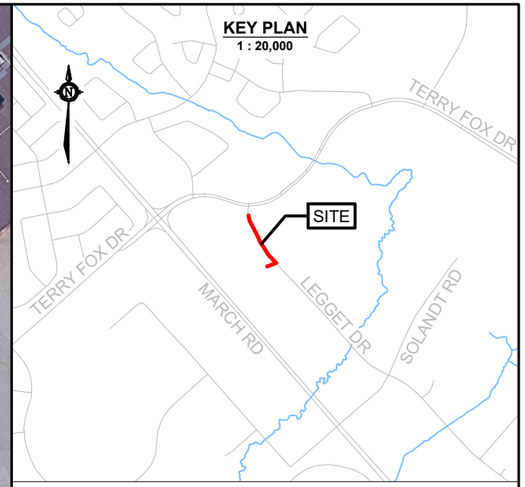
Ontario Ministry of the Environment, Conservation and Parks (MECP). Ontario Regulation 406/19, – On-site and Excess Soil Management. December 4, 2019 – Revised January 2023.

Ontario Ministry of the Environment, Conservation and Parks (MECP). Rules for Soil Management and Excess Soil Quality Standards. December 2019 – Revised December 2022.

Ontario Ministry of the Environment, Laboratory Services Branch (MOE). Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. March 9, 2004, amended as of July 1, 2011.

ATTACHMENT A

Figures



LEGEND

- **BH #** — BOREHOLE ID
- APPROXIMATE BOREHOLE LOCATION (current investigation by GEMTEC)
- PROJECT LIMIT

DATA SOURCES AND REFERENCES

1. Coordinate system: CSRS.UTM-18N
2. Distances, elevations, and coordinates are shown in metres unless denoted otherwise
3. This drawing is a schematic representation and should not be taken as a substitute for a legal survey.
4. Image @2025 Google Maps, CNES / Airbus, First Base Solutions, Maxar Technologies
5. Contains information licensed under the Open Government Licence – Ontario
6. Geographic dataset source: Ontario GeoHub

SCALE

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0 20 40 60m

DRAWING

SITE PLAN

CLIENT

BROCCOLINI INVESTMENT INC.

PROJECT

SOIL QUALITY REPORT
MUNICIPAL WATER SUPPLY
PROPOSED NOKIA CAMPUS
570 MARCH ROAD
OTTAWA, ONTARIO

DRAWN BY	CHECKED BY
SL	NS
PROJECT NO. 103940.007	REVISION NO. 0
DATE JULY 2025	FIGURE NO. **FIGURE A.1**

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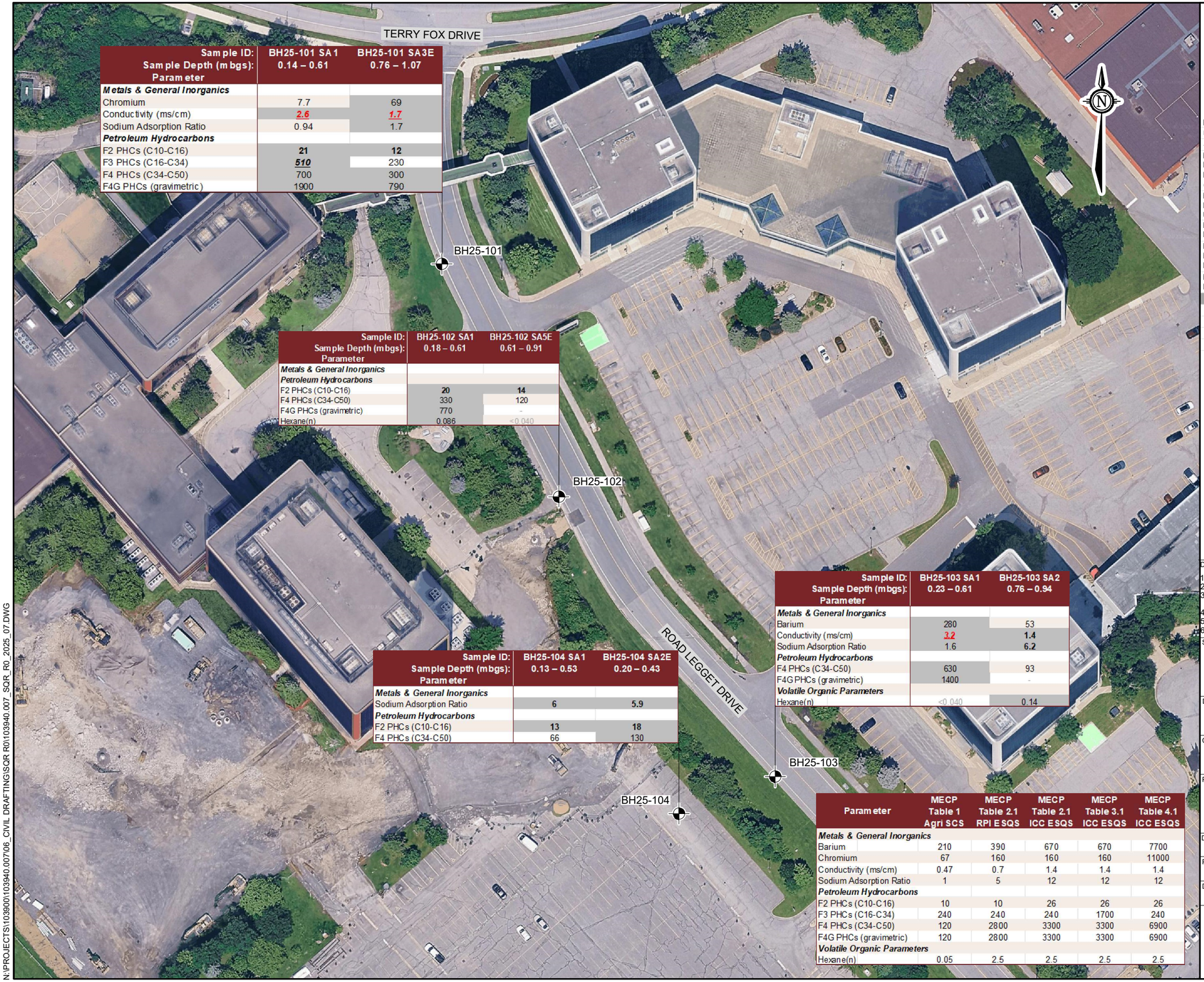

Sample ID: / Sample Depth (mbgs): / Parameter	BH25-101 SA1 0.14 – 0.61	BH25-101 SA3E 0.76 – 1.07
Metals & General Inorganics		
Chromium	7.7	69
Conductivity (ms/cm)	***2.6***	***1.7***
Sodium Adsorption Ratio	0.94	1.7
Petroleum Hydrocarbons		
F2 PHCs (C10-C16)	**21**	**12**
F3 PHCs (C16-C34)	***510***	230
F4 PHCs (C34-C50)	700	300
F4G PHCs (gravimetric)	1900	790

Sample ID: / Sample Depth (mbgs): / Parameter	BH25-102 SA1 0.18 – 0.61	BH25-102 SA5E 0.61 – 0.91
Metals & General Inorganics		
Petroleum Hydrocarbons		
F2 PHCs (C10-C16)	**20**	**14**
F4 PHCs (C34-C50)	330	120
F4G PHCs (gravimetric)	770	-
Hexane(n)	0.086	<0.040

Sample ID: / Sample Depth (mbgs): / Parameter	BH25-103 SA1 0.23 – 0.61	BH25-103 SA2 0.76 – 0.94
Metals & General Inorganics		
Barium	280	53
Conductivity (ms/cm)	***3.2***	**1.4**
Sodium Adsorption Ratio	1.6	**6.2**
Petroleum Hydrocarbons		
F4 PHCs (C34-C50)	630	93
F4G PHCs (gravimetric)	1400	-
Volatile Organic Parameters		
Hexane(n)	<0.040	0.14

Sample ID: / Sample Depth (mbgs): / Parameter	BH25-104 SA1 0.13 – 0.53	BH25-104 SA2E 0.20 – 0.43
Metals & General Inorganics		
Sodium Adsorption Ratio	**6**	**5.9**
Petroleum Hydrocarbons		
F2 PHCs (C10-C16)	**13**	**18**
F4 PHCs (C34-C50)	66	130

Parameter	MECP Table 1 Agri SCS	MECP Table 2.1 RPI ESQS	MECP Table 2.1 ICC ESQS	MECP Table 3.1 ICC ESQS	MECP Table 4.1 ICC ESQS
Metals & General Inorganics					
Barium	210	390	670	670	7700
Chromium	67	160	160	160	11000
Conductivity (ms/cm)	0.47	0.7	1.4	1.4	1.4
Sodium Adsorption Ratio	1	5	12	12	12
Petroleum Hydrocarbons					
F2 PHCs (C10-C16)	10	10	26	26	26
F3 PHCs (C16-C34)	240	240	240	1700	240
F4 PHCs (C34-C50)	120	2800	3300	3300	6900
F4G PHCs (gravimetric)	120	2800	3300	3300	6900
Volatile Organic Parameters					
Hexane(n)	0.05	2.5	2.5	2.5	2.5

LEGEND

BH # — BOREHOLE ID

APPROXIMATE BOREHOLE LOCATION (current investigation by GEMTEC)

PROJECT LIMIT

Notes:

mbgs - Metres Below Ground Surface

< - Less than Detection Limit

MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).

MECP Table 2.1 RPI ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for Residential/ Parkland/ Institutional (RPI) Property Use.

MECP Table 2.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for ICC Property Use.

MECP Table 3.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Non-Potable Ground Water Condition for Industrial/ Commercial/ community (ICC) Property Use.

MECP Table 4.1 ICC ESQS: MECP, Soil Rules, February 2024. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.

Grey	- Exceeds MECP Table 1 Agri SCS
Bold	- Exceeds MECP Table 2.1 RPI ESQS
Italics	- Exceeds MECP Table 2.1 ICC ESQS
Red	- Exceeds MECP Table 3.1 ICC ESQS
Underline	- Exceeds MECP Table 4.1 ICC - Subsurface ESQS

DATA SOURCES AND REFERENCES

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6. Geographic dataset source: Ontario GeoHub

SCALE 1:1,000

0 20 40 60m

DRAWING: SOIL EXCEEDANCES SUMMARY

CLIENT: BROCCOLINI INVESTMENT INC.

PROJECT: SOIL QUALITY REPORT
MUNICIPAL WATER SUPPLY
PROPOSED NOKIA CAMPUS
570 MARCH ROAD
OTTAWA, ONTARIO

DRAWN BY	CHECKED BY
SL	NS
PROJECT NO. 103940.007	REVISION NO. 0
DATE JULY 2025	FIGURE NO. **FIGURE A.2**

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ATTACHMENT B

Borehole Logs

RECORD OF BOREHOLE 25-101

CLIENT: Broccolini Investments Inc.
PROJECT: Nokia March Road Campus Municipal Watermain
JOB#: 103940.007
LOCATION: See Site Plan, Figure A1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Jun 18 2025

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		78.72									
0	Power Auger / Hollow Stem Auger (210mm OD)	ASPHALTIC CONCRETE		78.62									Flush Mount
		BASE - (GP-SP) GRAVEL and SAND, some silt, trace clay; brown, crushed; non-cohesive, moist, dense		0.10 78.44									
		SUBBASE - (GP-SP) SAND and GRAVEL, trace to some silt, trace clay; brown, crushed, some cobbles; non-cohesive, moist		0.28 78.10	1	SS	305	37	M&I, PAHs, BTEX/PHC F1-F4 (SA1)	HEX 40; IBL 1	None		
		FILL - (SP) GRAVELLY SAND, trace to some silt; grey brown; non-cohesive; moist; dense		0.62 77.65	2	SS	203	79 for 280 mm	M&I, PAHs, BTEX/PHC F1-F4 (SA3E)	HEX 50; IBL 2	None		Bentonite
1	Diamond Rotary Core HQ (89mm OD)	Fractured SANDSTONE / BOULDERS		1.07 77.45	3	RC	200	TCR= 100%; SCR= 19%; RQD= 0%					
		Fresh, grey SANDSTONE, very thinly to medium bedded. Good to Excellent quality.		1.27	4	RC	1448	TCR= 92%; SCR= 72%; RQD= 71%					#2 Filter Sand 1.52 m length; 51 mm diameter; Schedule 40 PVC Screen
2													
3					5	RC	686	TCR= 100%; SCR= 67%; RQD= 100%					
		End of borehole		75.19 3.53									

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
Jun. 27/25	3.44 ▽	75.28

GEMTEC
Consulting Engineers and Scientists

LOGGED: A.N.
CHECKED: M.R.

ENV - BOREHOLE LOG 103940.007_LOG_BH 101 TO 104_2025-07-07-ENVIRO.GPJ GEMTEC 2018.GDT 11/7/25

RECORD OF BOREHOLE 25-102

CLIENT: Broccolini Investments Inc.
PROJECT: Nokia March Road Campus Municipal Watermain
JOB#: 103940.007
LOCATION: See Site Plan, Figure A1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Jun 18 2025

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		79.38									
0	Power Auger / Hollow Stem Auger (210mm OD) / Drive open sampler	ASPHALTIC CONCRETE		79.28									Asphaltic Cold Patch
		BASE - (SP-GP) SAND and GRAVEL, trace to some silt; brown, crushed; non-cohesive, moist		0.10 / 79.16									
		SUBBASE - (SP-GP) SAND and GRAVEL, trace to some silt; grey brown, crushed; non-cohesive, moist, very dense		0.22 / 78.62	1	SS	305	74	M&I, PAHs, BTEX/PHC F1-F4 (SA1)	HEX 25; IBL 1			Auger Cuttings
1		FILL - (SP) SAND, some gravel, trace to some silt; grey brown; moist		0.76 / 78.29	2	SS	178	68 for 0.18 m	M&I, PAHs, BTEX/PHC F1-F4 (SA5E)	HEX 15; IBL 0			Borehole dry upon completion
		Auger refusal at 0.9 m on inferred bedrock End of borehole		1.09									

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LOGGED: A.N.
CHECKED: M.R.

RECORD OF BOREHOLE 25-103

CLIENT: Broccolini Investments Inc.
PROJECT: Nokia March Road Campus Municipal Watermain
JOB#: 103940.007
LOCATION: See Site Plan, Figure A1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Jun 20 2025

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLE DATA: NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		79.65									
0	Power Auger / Hollow Stem Auger (210mm OD)	ASPHALTIC CONCRETE		79.50									Flush Mount
		BASE - (SP-GP) SAND and GRAVEL, trace to some silt; grey, crushed; non-cohesive, moist		0.16 79.39									
		SUBBASE - (SM-GM) SILTY SAND and GRAVEL, trace to some clay; grey, crushed; non-cohesive, moist, very dense		0.26	1	SS	279	84	M&I, PAHs, BTEX/PHC F1-F4 (SA1)	HEX 70; IBL 4			
					2	SS	178	86 for 0.18 m	M&I, PAHs, BTEX/PHC F1-F4 (SA2)	HEX 65; IBL 1			Bentonite
1		(CL-ML) CLAYEY SILT, trace sand; grey brown; cohesive, moist		78.74 0.91 78.63									
	Diamond Rotary Core / HQ (89mm OD)	Fresh, grey SANDSTONE, very thinly to medium bedded. Good to Excellent quality.		1.02	3	RC	254	TCR= 100%; SCR= 70%; RQD= 75%					
2					4	RC	1549	TCR= 98%; SCR= 75%; RQD= 80%					#2 Filter Sand 1.52 m length; 51 mm diameter; Schedule 40 PVC Screen
3					5	RC	660	TCR= 100%; SCR= 90%; RQD= 94%					
				76.14									
		End of borehole		3.51									

GROUNDWATER OBSERVATIONS

DATE	DEPTH (m)	ELEVATION (m)
Jun. 27/25	3.30 ▽	76.35

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Consulting Engineers and Scientists

LOGGED: A.N.
CHECKED: M.R.

ENV - BOREHOLE LOG 103940.007_LOG_BH 101 TO 104_2025-07-07-ENVIRO.GPJ GEMTEC 2018.GDT 11/7/25

RECORD OF BOREHOLE 25-104

CLIENT: Broccolini Investments Inc.
PROJECT: Nokia March Road Campus Municipal Watermain
JOB#: 103940.007
LOCATION: See Site Plan, Figure A1

SHEET: 1 OF 1
DATUM: CGVD28
BORING DATE: Jun 19 2025

DEPTH SCALE METRES	BORING METHOD	DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	NUMBER	TYPE	RECOVERY (mm)	BLOWS/0.3m	LABORATORY ANALYSES	COMBUSTIBLE VAPOUR CONCENTRATION (ppm)	ODOUR	TPH (mg/kg)	MONITORING WELL INSTALLATION AND NOTES
		Ground Surface		79.73									
0	Power Auger / Hollow Stem Auger (210mm OD)	ASPHALTIC CONCRETE		79.70 / 0.04									Asphaltic cold patch
		BASE - (GM-SM) SILTY GRAVEL and SAND, trace clay; grey, crushed; non-cohesive, moist		79.49 / 0.24	1	SS	229	68 for 0.23 m	M&I, PAHs, BTEX/PHC F1-F4 (SA1, SA2E)	HEX 10; IBL 1			Auger cuttings
		SUBBASE - (GP) SANDY GRAVEL, trace silt; grey, crushed; non-cohesive, moist		79.17 / 0.56									Borehole dry upon completion
		Auger refusal on inferred bedrock End of borehole											

GEMTEC
Consulting Engineers and Scientists

LOGGED: A.N.
CHECKED: M.R.

ATTACHMENT C

Analytical Summary Tables

Table C1
Soil Analytical Results - Bulk
Soil Quality Report
Municipal Water Supply – Proposed Nokia Campus
570 March Road
Ottawa, Ontario

Parameter	Units	MDL	MECP Table 1 Agri SCS	MECP Table 2.1 RPI ESQS	MECP Table 2.1 ICC ESQS	MECP Table 3.1 ICC ESQS	MECP Table 4.1 ICC ESQS	Sample ID: / Laboratory Sample ID: / Date Sampled(dd/mm/yyyy): / Sample Depth (mbgs):			
								BH25-101 SA1 / ASGL47 / 18/06/2025 / 0.15 – 0.61	BH25-101 SA3E / ASGL48 / 18/06/2025 / 0.76 – 1.04	BH25-102 SA1 / ASGL49 / 18/06/2025 / 0.18 – 0.61	BH25-102 SA5E / ASGL50 / 18/06/2025 / 0.61 – 0.91
Metals & General Inorganics											
Antimony	ug/g	0.2	1	7.5	40	40	63	<0.20	<0.20	<0.20	<0.20
Arsenic	ug/g	1	11	18	18	18	39	1	<1.0	<1.0	<1.0
Barium	ug/g	0.5	210	390	670	670	7700	160	160	160	150
Beryllium	ug/g	0.2	2.5	4	8	8	60	0.24	0.22	<0.20	0.26
Boron (Hot Water Soluble)	ug/g	0.05	NS	1.5	2	2	NS	0.76	0.42	0.62	0.55
Cadmium	ug/g	0.1	1	1.2	1.9	1.9	7.9	<0.10	<0.10	<0.10	<0.10
Chromium	ug/g	1	67	160	160	160	11000	7.7	69	5.5	24
Chromium VI	ug/g	0.18	0.66	8	8	8	40	<0.18	<0.18	<0.18	<0.18
Cobalt	ug/g	0.1	19	22	80	80	2500	3.5	2.3	2.2	5.8
Copper	ug/g	0.5	62	140	230	230	1900	5.7	4.6	4.4	7
Lead	ug/g	1	45	120	120	120	1000	9.8	4.4	6	8.2
Mercury	ug/g	0.05	0.16	0.27	0.27	0.27	1.9	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	0.5	2	6.9	40	40	1200	<0.50	1.1	<0.50	<0.50
Nickel	ug/g	0.5	37	100	270	270	510	10	6.7	6.2	7.8
Selenium	ug/g	0.5	1.2	2.4	5.5	5.5	1200	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	0.2	0.5	20	40	40	490	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	0.05	1	1	3.3	3.3	33	0.27	0.13	0.15	0.28
Vanadium	ug/g	5	86	86	86	86	160	6.3	9.6	<5.0	6.1
Zinc	ug/g	5	290	340	340	340	15000	6.1	5.6	<5.0	5.3
pH (pH Units)	%	-	5 to 9	5 to 9	5 to 9	5 to 9	5 to 9	7.97	7.97	8.02	8.05
Conductivity (ms/cm)	mS/cm	0.002	0.47	0.7	1.4	1.4	1.4	***2.6***	***1.7***	0.69	**0.93**
Sodium Adsorption Ratio	N/A		1	5	12	12	12	0.94	1.7	3.2	4.1
Cyanide, Free	ug/g	0.01	0.051	0.051	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01
Chloride	-	-	NS	NS	NS	NS	NS	-	-	-	-
Boron (Total)	ug/g	5	36	120	120	120	5000	5.6	<5.0	6.3	<5.0
Uranium	ug/g	0.05	1.9	23	33	33	300	0.29	0.55	0.29	0.4
Petroleum Hydrocarbons											
F1 PHCs (C6-C10)	ug/g dry	7	17	25	25	25	25	<10	<10	<10	<10
F2 PHCs (C10-C16)	ug/g dry	4	10	10	26	26	26	**21**	**12**	**20**	**14**
F3 PHCs (C16-C34)	ug/g dry	8	240	240	240	1700	240	***510***	230	240	99
F4 PHCs (C34-C50)	ug/g dry	6	120	2800	3300	3300	6900	700	300	330	120
F4G PHCs (gravimetric)	ug/g dry	50	120	2800	3300	3300	6900	1900	790	770	-
Semi-Volatiles											
Acenaphthene	ug/g dry	0.02	0.05	2.5	2.5	15	2.5	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	ug/g dry	0.02	0.093	0.093	0.093	0.093	0.093	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	ug/g dry	0.02	0.05	0.16	0.16	0.16	0.16	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[a]anthracene	ug/g dry	0.02	0.095	0.5	0.92	1	0.92	0.0087	<0.0050	<0.0050	<0.0050
Benzo[a]pyrene	ug/g dry	0.02	0.05	0.31	0.31	0.7	0.31	0.018	0.0062	0.0075	<0.0050
Benzo[b]fluoranthene	ug/g dry	0.02	0.3	3.2	3.2	7	3.2	0.021	0.0079	0.0096	<0.0050
Benzo[g,h,i]perylene	ug/g dry	0.02	0.2	6.6	13	13	110	0.057	0.02	0.025	0.01
Benzo[k]fluoranthene	ug/g dry	0.02	0.05	3.1	3.1	7	3.1	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	ug/g dry	0.02	0.18	7	9.4	14	9.4	0.015	0.0062	0.0077	<0.0050
Dibenzo[a,h]anthracene	ug/g dry	0.02	0.1	0.57	0.7	0.7	1	0.0075	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/g dry	0.02	0.24	0.69	2.8	70	2.8	<0.0050	<0.0050	<0.0050	<0.0050
Fluorene	ug/g dry	0.02	0.05	6.8	6.8	6.8	6.8	<0.0050	<0.0050	<0.0050	<0.0050
Indeno [1,2,3-cd] pyrene	ug/g dry	0.02	0.11	0.38	0.76	0.76	11	0.017	0.0057	0.0076	<0.0050
1-Methylnaphthalene	ug/g dry	0.02	0.05	0.59	0.59	8.7	0.59	0.0053	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene	ug/g dry	0.02	0.05	0.59	0.59	8.7	0.59	0.0096	<0.0050	0.0058	<0.0050
Methylnaphthalene (1&2)	ug/g dry	0.04	0.05	0.59	0.59	8.7	0.59	0.023	<0.0050	<0.0050	<0.0050
Naphthalene	ug/g dry	0.01	0.05	0.2	0.2	1.8	0.2	0.018	0.0071	0.0098	0.0062
Phenanthrene	ug/g dry	0.02	0.19	6.2	12	12	23	0.022	0.0065	0.0097	0.0055
Pyrene	ug/g dry	0.02	0.19	28	28	70	28	0.015	<0.0071	<0.0071	<0.0071
Volatile Organic Parameters											
Acetone	ug/g dry	0.49	0.5	0.5	0.5	1.8	0.5	<0.49	<0.49	<0.49	<0.49
Benzene	ug/g dry	0.006	0.02	0.02	0.02	0.034	0.02	<0.0060	<0.0060	<0.0060	<0.0060
Bromodichloromethane	ug/g dry	0.04	0.05	0.05	0.05	5.8	0.05	<0.040	<0.040	<0.040	<0.040
Bromoform	ug/g dry	0.04	0.05	0.05	0.05	2.5	0.05	<0.040	<0.040	<0.040	<0.040
Bromomethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	ug/g dry	0.04	0.05	0.083	0.083	0.28	0.083	<0.040	<0.040	<0.040	<0.040
Chloroform	ug/g dry	0.04	0.05	0.05	0.05	0.26	0.05	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	ug/g dry	0.04	0.05	0.05	0.05	5.5	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichlorobenzene	ug/g dry	0.04	0.05	3.4	6.8	6.8	14	<0.040	<0.040	<0.040	<0.040
1,3-Dichlorobenzene	ug/g dry	0.04	0.05	0.26	0.26	6.8	0.26	<0.040	<0.040	<0.040	<0.040
1,4-Dichlorobenzene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1-Dichloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.57	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichloroethane	ug/g dry	0.049	0.05	0.05	0.05	0.05	0.05	<0.049	<0.049	<0.049	<0.049
1,1-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Cis-1,2-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Trans-1,2-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichloropropane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Cis-1,3-Dichloropropylene	ug/g dry	0.03	NS	NS	NS	NS	NS	<0.030	<0.030	<0.030	<0.030
Trans-1,3-Dichloropropylene	ug/g dry	0.04	NS	NS	NS	NS	NS	<0.040	<0.040	<0.040	<0.040
Ethylbenzene	ug/g dry	0.01	0.05	0.05	0.05	1.9	0.05	<0.010	<0.010	<0.010	<0.010
Ethylene Dibromide	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	ug/g dry	0.4	0.5	0.5	0.5	26	0.5	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	ug/g dry	0.049	0.05	0.05	0.05	0.2	0.05	<0.049	<0.049	<0.049	<0.049
Methyl Isobutyl Ketone	ug/g dry	0.4	0.5	0.5	0.5	17	0.5	<0.40	<0.40	<0.40	<0.40
Methyl-t-Butyl Ether	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Styrene	ug/g dry	0.04	0.05	0.05	0.05	6.8	0.05	<0.040	<0.040	<0.040	<0.040
1,1,1,2-Tetrachloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Toluene	ug/g dry	0.02	0.2	0.2	0.2	7.8	0.2	<0.020	<0.020	<0.020	<0.020
Tetrachloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1,1-Trichloroethane	ug/g dry	0.04	0.05	0.11	0.12	0.4	0.12	<0.040	<0.040	<0.040	<0.040
1,1,2-Trichloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	ug/g dry	0.01	0.05	0.05	0.05	0.05	0.05	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	ug/g dry	0.019	0.02	0.02	0.02	0.02	0.02	<0.019	<0.019	<0.019	<0.019
m-Xylene & p-Xylene	ug/g dry	0.02	NS	NS	NS	NS	NS	<0.020	<0.020	<0.020	<0.020
o-Xylene	ug/g dry	0.02	NS	NS	NS	NS	NS	<0.020	<0.020	<0.020	<0.020
Total Xylenes	ug/g dry	0.02	0.05	0.091	0.091	3	0.091	<0.020	<0.020	<0.020	<0.020
Dichlorodifluoromethane	ug/g dry	0.04	0.05	1.5	1.5	1.8	1.5	<0.040	<0.040	<0.040	<0.040
Dioxane, 1,4-	ug/g dry	-	0.2	0.2	0.2	1.8	0.2	-	-	-	-
Hexane(n)	ug/g dry	0.04	0.05	2.5	2.5	2.5	2.5	<0.040	<0.040	0.086	<0.040
Trichlorofluoromethane	ug/g dry	0.04	0.05	0.25	0.25	0.46	0.25	<0.040	<0.040	<0.040	<0.040
1,3-Dichloropropene (cis + trans)	ug/g dry	0.05	0.05	0.05	0.05	0.05	0.05	<0.050	<0.050	<0.050	<0.050

Notes:
MDL - Method Detection Limit
mbgs - Metres Below Ground Surface
NS - No Standard
< - Less than Detection Limit
MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).
MECP Table 2.1 RPI ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for Residential/ Parkland/ Institutional (RPI) Property Use.
MECP Table 2.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for ICC Property
MECP Table 3.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Non-Potable Ground Water Condition for Industrial/ Commercial/ community (ICC) Property Use.
MECP Table 4.1 ICC ESQS: MECP, Soil Rules, February 2024. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.
Grey - Exceeds MECP Table 1 Agri SCS
Bold - Exceeds MECP Table 2.1 RPI ESQS
Italics - Exceeds MECP Table 2.1 ICC ESQS
Red - Exceeds MECP Table 3.1 ICC ESQS
Underline - Exceeds MECP Table 4.1 ICC - Subsurface ESQS

Table C1
Soil Analytical Results - Bulk
Soil Quality Report
Municipal Water Supply – Proposed Nokia Campus
570 March Road
Ottawa, Ontario

Parameter	Units	MDL	MECP Table 1 Agri SCS	MECP Table 2.1 RPI ESQS	MECP Table 2.1 ICC ESQS	MECP Table 3.1 ICC ESQS	MECP Table 4.1 ICC ESQS	Sample ID: BH25-103 SA1 / Laboratory Sample ID: ASGL51 / Date Sampled(dd/mm/yyyy): 20/06/2025 / Sample Depth (mbgs): 0.22 – 0.61	Sample ID: BH25-103 SA2 / Laboratory Sample ID: ASGL52 / Date Sampled(dd/mm/yyyy): 20/06/2025 / Sample Depth (mbgs): 0.76 – 0.94	Sample ID: BH25-104 SA1 / Laboratory Sample ID: ASGL53 / Date Sampled(dd/mm/yyyy): 20/06/2025 / Sample Depth (mbgs): 0.13 – 0.53	Sample ID: BH25-104 SA2E / Laboratory Sample ID: ASGL54 / Date Sampled(dd/mm/yyyy): 19/06/2025 / Sample Depth (mbgs): 0.20 – 0.43
Metals & General Inorganics											
Antimony	ug/g	0.2	1	7.5	40	40	63	<0.20	<0.20	<0.20	<0.20
Arsenic	ug/g	1	11	18	18	18	39	1.3	<1.0	<1.0	<1.0
Barium	ug/g	0.5	210	390	670	670	7700	280	53	110	170
Beryllium	ug/g	0.2	2.5	4	8	8	60	<0.20	<0.20	<0.20	0.22
Boron (Hot Water Soluble)	ug/g	0.05	NS	1.5	2	2	NS	1.2	0.52	0.33	0.36
Cadmium	ug/g	0.1	1	1.2	1.9	1.9	7.9	<0.10	<0.10	<0.10	<0.10
Chromium	ug/g	1	67	160	160	160	11000	7.6	12	6.8	6.9
Chromium VI	ug/g	0.18	0.66	8	8	8	40	<0.18	<0.18	<0.18	<0.18
Cobalt	ug/g	0.1	19	22	80	80	2500	3.6	2.4	2.3	3.1
Copper	ug/g	0.5	62	140	230	230	1900	6	7.2	3.6	4.5
Lead	ug/g	1	45	120	120	120	1000	8.3	2.8	6.1	7.9
Mercury	ug/g	0.05	0.16	0.27	0.27	0.27	1.9	<0.050	<0.050	<0.050	<0.050
Molybdenum	ug/g	0.5	2	6.9	40	40	1200	0.51	0.97	<0.50	<0.50
Nickel	ug/g	0.5	37	100	270	270	510	8.5	5.8	6.7	8.3
Selenium	ug/g	0.5	1.2	2.4	5.5	5.5	1200	<0.50	<0.50	<0.50	<0.50
Silver	ug/g	0.2	0.5	20	40	40	490	<0.20	<0.20	<0.20	<0.20
Thallium	ug/g	0.05	1	1	3.3	3.3	33	0.27	0.074	0.12	0.17
Vanadium	ug/g	5	86	86	86	86	160	6.3	13	6.2	6
Zinc	ug/g	5	290	340	340	340	15000	6.3	9.1	5.2	8.1
pH (pH Units)	%	-	5 to 9	5 to 9	5 to 9	5 to 9	5 to 9	8.03	7.82	7.98	7.83
Conductivity (ms/cm)	mS/cm	0.002	0.47	0.7	1.4	1.4	1.4	***3.2***	**1.4**	0.23	0.22
Sodium Adsorption Ratio	N/A		1	5	12	12	12	1.6	**6.2**	**6**	**5.9**
Cyanide, Free	ug/g	0.01	0.051	0.051	0.051	0.051	0.051	<0.01	<0.01	<0.01	<0.01
Chloride	-	-	NS	NS	NS	NS	NS	-	-	-	-
Boron (Total)	ug/g	5	36	120	120	120	5000	8.5	<5.0	<5.0	5.3
Uranium	ug/g	0.05	1.9	23	33	33	300	0.31	0.43	0.29	0.24
Petroleum Hydrocarbons											
F1 PHCs (C6-C10)	ug/g dry	7	17	25	25	25	25	<10	<10	<10	<10
F2 PHCs (C10-C16)	ug/g dry	4	10	10	26	26	26	10	<7.0	**13**	**18**
F3 PHCs (C16-C34)	ug/g dry	8	240	240	240	1700	240	120	61	<50	79
F4 PHCs (C34-C50)	ug/g dry	6	120	2800	3300	3300	6900	630	93	66	130
F4G PHCs (gravimetric)	ug/g dry	50	120	2800	3300	3300	6900	1400	-	-	-
Semi-Volatiles											
Acenaphthene	ug/g dry	0.02	0.05	2.5	2.5	15	2.5	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	ug/g dry	0.02	0.093	0.093	0.093	0.093	0.093	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	ug/g dry	0.02	0.05	0.16	0.16	0.16	0.16	<0.0050	<0.0050	<0.0050	<0.0050
Benzo[a]anthracene	ug/g dry	0.02	0.095	0.5	0.92	1	0.92	0.0096	<0.0050	<0.0050	<0.0050
Benzo[a]pyrene	ug/g dry	0.02	0.05	0.31	0.31	0.7	0.31	0.008	<0.0050	<0.0050	<0.0050
Benzo[b]fluoranthene	ug/g dry	0.02	0.3	3.2	3.2	7	3.2	0.015	<0.0050	<0.0050	<0.0050
Benzo[g,h,i]perylene	ug/g dry	0.02	0.2	6.6	13	13	110	0.026	0.0056	<0.0050	0.0068
Benzo[k]fluoranthene	ug/g dry	0.02	0.05	3.1	3.1	7	3.1	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	ug/g dry	0.02	0.18	7	9.4	14	9.4	0.014	<0.0050	<0.0050	0.0058
Dibenzo[a,h]anthracene	ug/g dry	0.02	0.1	0.57	0.7	0.7	1	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	ug/g dry	0.02	0.24	0.69	2.8	70	2.8	0.025	<0.0050	<0.0050	<0.0050
Fluorene	ug/g dry	0.02	0.05	6.8	6.8	6.8	6.8	<0.0050	<0.0050	<0.0050	<0.0050
Indeno [1,2,3-cd] pyrene	ug/g dry	0.02	0.11	0.38	0.76	0.76	11	0.0092	<0.0050	<0.0050	<0.0050
1-Methylnaphthalene	ug/g dry	0.02	0.05	0.59	0.59	8.7	0.59	0.006	<0.0050	<0.0050	<0.0050
2-Methylnaphthalene	ug/g dry	0.02	0.05	0.59	0.59	8.7	0.59	0.011	<0.0050	<0.0050	<0.0050
Methylnaphthalene (1&2)	ug/g dry	0.04	0.05	0.59	0.59	8.7	0.59	<0.0050	<0.0050	<0.0050	<0.0050
Naphthalene	ug/g dry	0.01	0.05	0.2	0.2	1.8	0.2	0.035	0.005	0.0064	0.011
Phenanthrene	ug/g dry	0.02	0.19	6.2	12	12	23	0.025	<0.0050	<0.0050	0.0061
Pyrene	ug/g dry	0.02	0.19	28	28	70	28	0.017	<0.0071	<0.0071	<0.0071
Volatile Organic Parameters											
Acetone	ug/g dry	0.49	0.5	0.5	0.5	1.8	0.5	<0.49	<0.49	<0.49	<0.49
Benzene	ug/g dry	0.006	0.02	0.02	0.02	0.034	0.02	<0.0060	<0.0060	<0.0060	<0.0060
Bromodichloromethane	ug/g dry	0.04	0.05	0.05	0.05	5.8	0.05	<0.040	<0.040	<0.040	<0.040
Bromoform	ug/g dry	0.04	0.05	0.05	0.05	2.5	0.05	<0.040	<0.040	<0.040	<0.040
Bromomethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	ug/g dry	0.04	0.05	0.083	0.083	0.28	0.083	<0.040	<0.040	<0.040	<0.040
Chloroform	ug/g dry	0.04	0.05	0.05	0.05	0.26	0.05	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	ug/g dry	0.04	0.05	0.05	0.05	5.5	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichlorobenzene	ug/g dry	0.04	0.05	3.4	6.8	6.8	14	<0.040	<0.040	<0.040	<0.040
1,3-Dichlorobenzene	ug/g dry	0.04	0.05	0.26	0.26	6.8	0.26	<0.040	<0.040	<0.040	<0.040
1,4-Dichlorobenzene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1-Dichloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.57	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichloroethane	ug/g dry	0.049	0.05	0.05	0.05	0.05	0.05	<0.049	<0.049	<0.049	<0.049
1,1-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Cis-1,2-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Trans-1,2-Dichloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,2-Dichloropropane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Cis-1,3-Dichloropropylene	ug/g dry	0.03	NS	NS	NS	NS	NS	<0.030	<0.030	<0.030	<0.030
Trans-1,3-Dichloropropylene	ug/g dry	0.04	NS	NS	NS	NS	NS	<0.040	<0.040	<0.040	<0.040
Ethylbenzene	ug/g dry	0.01	0.05	0.05	0.05	1.9	0.05	<0.010	<0.010	<0.010	<0.010
Ethylene Dibromide	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	ug/g dry	0.4	0.5	0.5	0.5	26	0.5	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	ug/g dry	0.049	0.05	0.05	0.05	0.2	0.05	<0.049	<0.049	<0.049	<0.049
Methyl Isobutyl Ketone	ug/g dry	0.4	0.5	0.5	0.5	17	0.5	<0.40	<0.40	<0.40	<0.40
Methyl-t-Butyl Ether	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Styrene	ug/g dry	0.04	0.05	0.05	0.05	6.8	0.05	<0.040	<0.040	<0.040	<0.040
1,1,1,2-Tetrachloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Toluene	ug/g dry	0.02	0.2	0.2	0.2	7.8	0.2	<0.020	0.071	<0.020	<0.020
Tetrachloroethylene	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
1,1,1-Trichloroethane	ug/g dry	0.04	0.05	0.11	0.12	0.4	0.12	<0.040	<0.040	<0.040	<0.040
1,1,2-Trichloroethane	ug/g dry	0.04	0.05	0.05	0.05	0.05	0.05	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	ug/g dry	0.01	0.05	0.05	0.05	0.05	0.05	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	ug/g dry	0.019	0.02	0.02	0.02	0.02	0.02	<0.019	<0.019	<0.019	<0.019
m-Xylene & p-Xylene	ug/g dry	0.02	NS	NS	NS	NS	NS	<0.020	0.044	<0.020	<0.020
o-Xylene	ug/g dry	0.02	NS	NS	NS	NS	NS	<0.020	<0.020	<0.020	<0.020
Total Xylenes	ug/g dry	0.02	0.05	0.091	0.091	3	0.091	<0.020	0.044	<0.020	<0.020
Dichlorodifluoromethane	ug/g dry	0.04	0.05	1.5	1.5	1.8	1.5	<0.040	<0.040	<0.040	<0.040
Dioxane, 1,4-	ug/g dry	-	0.2	0.2	0.2	1.8	0.2	-	-	-	-
Hexane(n)	ug/g dry	0.04	0.05	2.5	2.5	2.5	2.5	<0.040	0.14	<0.040	0.047
Trichlorofluoromethane	ug/g dry	0.04	0.05	0.25	0.25	0.46	0.25	<0.040	<0.040	<0.040	<0.040
1,3-Dichloropropene (cis + trans)	ug/g dry	0.05	0.05	0.05	0.05	0.05	0.05	<0.050	<0.050	<0.050	<0.050

Notes:
MDL - Method Detection Limit
mbgs - Metres Below Ground Surface
NS - No Standard
< - Less than Detection Limit
MECP Table 1 Ag/Ot SCS: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, March 2004, amended July 1, 2011. Full Depth Background Site Condition Standards for Agricultural or Other Property Use (Agri/Ot).
MECP Table 2.1 RPI ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for Residential/ Parkland/ Institutional (RPI) Property Use.
MECP Table 2.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Potable Ground Water Condition for ICC Property
MECP Table 3.1 ICC ESQS: MECP, Soil Rules, February 2024. Full Depth ESQS in a Non-Potable Ground Water Condition for Industrial/ Commercial/ community (ICC) Property Use.
MECP Table 4.1 ICC ESQS: MECP, Soil Rules, February 2024. Stratified Conditions ESQS in a Potable Ground Water Condition for ICC Property Use - Subsurface.
Grey - Exceeds MECP Table 1 Agri SCS
Bold - Exceeds MECP Table 2.1 RPI ESQS
Italics - Exceeds MECP Table 2.1 ICC ESQS
Red - Exceeds MECP Table 3.1 ICC ESQS
Underline - Exceeds MECP Table 4.1 ICC - Subsurface ESQS

Table C2
Soil Analytical Results - Toxicity Characteristic Leaching Procedure
Soil Quality Report
Municipal Water Supply – Proposed Nokia Campus
570 March Road
Ottawa, Ontario

Parameter	Units	MDL	Sample ID: Laboratory ID: Date Sampled (dd/mm/yyyy): O.Reg. 558 Schedule 4[1]	TCLP-COMP-100 ASGL55 18/06/2025
Physical Characteristics				
Flashpoint	°C	-	NA	>61
EPA 1311 - TCLP Leachate Inorganics				
Fluoride	mg/L	0.05	150	0.27
Nitrate as N	mg/L	1	1000	<1.0
Nitrite as N	mg/L	1	1000	<0.10
Nitrate + Nitrite as N	mg/L	2	1000	<1.0
Cyanide, free	mg/L	0.02	20	<0.010
EPA 1311 - TCLP Leachate Metals				
Arsenic	mg/L	0.05	2.5	<0.2
Barium	mg/L	0.05	100	0.8
Boron	mg/L	0.1	500	0.1
Cadmium	mg/L	0.01	0.5	<0.05
Chromium	mg/L	0.05	5	<0.1
Lead	mg/L	0.05	5	<0.1
Mercury	mg/L	0.005	0.1	<0.001
Selenium	mg/L	0.05	1	<0.1
Silver	mg/L	0.05	5	<0.01
Uranium	mg/L	0.05	10	<0.01
EPA 1311 - TCLP Leachate Volatiles				
Benzene	mg/L	0.005	0.5	<0.020
Carbon Tetrachloride	mg/L	0.005	0.5	<0.020
Chlorobenzene	mg/L	0.004	8	<0.020
Chloroform	mg/L	0.006	10	<0.020
1,2-Dichlorobenzene	mg/L	0.004	20	<0.050
1,4-Dichlorobenzene	mg/L	0.004	0.5	<0.050
1,2-Dichloroethane	mg/L	0.005	0.5	<0.050
1,1-Dichloroethylene	mg/L	0.006	1.4	<0.020
Methyl Ethyl Ketone (2-Butanone)	mg/L	0.3	200	<1.0
Methylene Chloride	mg/L	0.04	5	<0.20
Tetrachloroethylene	mg/L	0.005	3	<0.020
Trichloroethylene	mg/L	0.004	5	<0.020
Vinyl Chloride	mg/L	0.005	0.2	<0.020
EPA 1311 - TCLP Leachate Organics				
Benzo[a]pyrene	mg/L	0.0001	0.001	<0.10

Notes:
<: Less than Detection Limit
NA: Not Applicable
MDL: Method Detection Limit
1 - MECP O.Reg. 558 and O.Reg 347 Schedule 4, Leachate Quality Criteria, to evaluate waste classification (hazardous or non-hazardous waste) for on-site soils. (MECP, 2000).
Grey - Exceeds O.Reg. 558/347

ATTACHMENT D

Laboratory Certificates of Analysis

Your Project #: 103940.007
Site Location: LEGETT 100 SERIES
Your C.O.C. #: C#1048734-01-01

Attention: Nicole Soucy

GEMTEC LIMITED
32 Steacie Drive
Ottawa, ON
CANADA K2K 2A9

Report Date: 2025/06/30
Report #: R8567513
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C574721
Received: 2025/06/23, 15:10

Sample Matrix: Soil
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	8	N/A	2025/06/27	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	8	2025/06/27	2025/06/27	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	8	N/A	2025/06/26		EPA 8260C m
Free (WAD) Cyanide (1)	8	2025/06/27	2025/06/27	CAM SOP-00457	OMOE E3015 m
Cyanide (WAD) in Leachates (1)	1	N/A	2025/06/26	CAM SOP-00457	OMOE 3015 m
Conductivity (1)	8	2025/06/27	2025/06/27	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 3)	8	2025/06/27	2025/06/27	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	3	2025/06/26	2025/06/26	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	5	2025/06/26	2025/06/27	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	4	2025/06/30	2025/06/30	CAM SOP-00316	CCME PHC-CWS m
Fluoride by ISE in Leachates (1)	1	2025/06/26	2025/06/26	CAM SOP-00449	SM 24 4500-F- C m
Acid Extractable Metals by ICPMS (1)	8	2025/06/27	2025/06/27	CAM SOP-00447	EPA 6020B m
Total Metals in TCLP Leachate by ICPMS (1)	1	2025/06/27	2025/06/27	CAM SOP-00447	EPA 6020B m
Flash Point (2)	1	N/A	2025/06/28	AB SOP-00062	ASTM D3828-16a/ A m
Moisture (1)	8	N/A	2025/06/25	CAM SOP-00445	Carter 2nd ed 70.2 m
Nitrate& Nitrite as Nitrogen in Leachate (1)	1	N/A	2025/06/26	CAM SOP-00440	SM 24 4500-NO3I/NO2B
PAH Compounds in Leachate by GC/MS (SIM) (1)	1	2025/06/26	2025/06/27	CAM SOP-00318	EPA 8270E
PAH Compounds in Soil by GC/MS (SIM) (1)	8	2025/06/26	2025/06/27	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT (1)	8	2025/06/27	2025/06/27	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR) (1)	8	N/A	2025/06/27	CAM SOP-00102	EPA 6010C
TCLP - % Solids (1)	1	2025/06/25	2025/06/26	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid (1)	1	N/A	2025/06/26	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH (1)	1	N/A	2025/06/26	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction (1)	1	2025/06/26	2025/06/27	CAM SOP-00430	EPA 1311 m
Volatile Organic Compounds and F1 PHCs (1)	8	N/A	2025/06/25	CAM SOP-00230	EPA 8260C m
VOCs in ZHE Leachates (1)	1	2025/06/27	2025/06/27	CAM SOP-00228	EPA 8260D

Remarks:

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

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession

Your Project #: 103940.007
Site Location: LEGETT 100 SERIES
Your C.O.C. #: C#1048734-01-01

Attention: Nicole Soucy

GEMTEC LIMITED
32 Steacie Drive
Ottawa, ON
CANADA K2K 2A9

Report Date: 2025/06/30
Report #: R8567513
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C574721
Received: 2025/06/23, 15:10

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8
(3) Soils are reported on a dry weight basis unless otherwise specified.
(4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633
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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C574721
Report Date: 2025/06/30

GEMTEC LIMITED
Client Project #: 103940.007
Site Location: LEGETT 100 SERIES
Sampler Initials: NS

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ASGL47	ASGL48	ASGL49			
Sampling Date		2025/06/18	2025/06/18	2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	BH25-102 SA1	RDL	MDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.94	1.7	3.2			9956875
Inorganics							
Conductivity	mS/cm	2.6	1.7	0.69	0.002	0.0005	9959315
Moisture	%	3.2	4.2	2.4	1.0	0.50	9957388
Available (CaCl2) pH	pH	7.97	7.97	8.02			9959147
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	0.01	0.0019	9959033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ASGL49				ASGL50			
Sampling Date		2025/06/18				2025/06/18			
COC Number		C#1048734-01-01				C#1048734-01-01			
	UNITS	BH25-102 SA1 Lab-Dup	RDL	MDL	QC Batch	BH25-102 SA5E	RDL	MDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A					4.1			9956875
Inorganics									
Conductivity	mS/cm	0.70	0.002	0.0005	9959315	0.93	0.002	0.0005	9959315
Moisture	%					2.8	1.0	0.50	9957388
Available (CaCl2) pH	pH					8.05			9959147
WAD Cyanide (Free)	ug/g					<0.01	0.01	0.0019	9959033

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

Bureau Veritas Job #: C574721
Report Date: 2025/06/30

GEMTEC LIMITED
Client Project #: 103940.007
Site Location: LEGETT 100 SERIES
Sampler Initials: NS

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ASGL51		ASGL52	ASGL53			
Sampling Date		2025/06/20		2025/06/20	2025/06/20			
COC Number		C#1048734-01-01		C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-103 SA1	QC Batch	BH25-103 SA2	BH25-104 SA1	RDL	MDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	1.6	9956875	6.2	6.0			9956875
Inorganics								
Conductivity	mS/cm	3.2	9959021	1.4	0.23	0.002	0.0005	9959315
Moisture	%	3.0	9957388	5.5	3.8	1.0	0.50	9957388
Available (CaCl2) pH	pH	8.03	9959147	7.82	7.98			9959147
WAD Cyanide (Free)	ug/g	<0.01	9959033	<0.01	<0.01	0.01	0.0019	9959033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C574721
Report Date: 2025/06/30

GEMTEC LIMITED
Client Project #: 103940.007
Site Location: LEGETT 100 SERIES
Sampler Initials: NS

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ASGL54				ASGL55			
Sampling Date		2025/06/19				2025/06/19			
COC Number		C#1048734-01-01				C#1048734-01-01			
	UNITS	BH25-104 SA2E	RDL	MDL	QC Batch	TCLP-COMP-100	RDL	MDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	5.9			9956875				
Charge/Prep Analysis									
Amount Extracted (Wet Weight) (g)	N/A					25	N/A	N/A	9958807
Inorganics									
Conductivity	mS/cm	0.22	0.002	0.0005	9959021				
Final pH	pH					6.01			9958448
Leachable Fluoride (F-)	mg/L					0.27	0.10	0.0060	9958390
Initial pH	pH					9.60			9958448
Moisture	%	4.2	1.0	0.50	9957388				
Available (CaCl2) pH	pH	7.83			9959147				
TCLP - % Solids	%					100	0.2	N/A	9957739
TCLP Extraction Fluid	N/A					FLUID 2			9958447
WAD Cyanide (Free)	ug/g	<0.01	0.01	0.0019	9959033				
Leachable WAD Cyanide (Free)	mg/L					<0.010	0.010	0.0040	9958391
Leachable Nitrite (N)	mg/L					<0.10	0.10	0.020	9958386
Leachable Nitrate (N)	mg/L					<1.0	1.0	0.10	9958386
Leachable Nitrate + Nitrite (N)	mg/L					<1.0	1.0	0.10	9958386
PHYSICAL PROPERTIES									
Closed Cup Flash point	°C					>61 (1)	N/A	N/A	9960225

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) No flash detected.

Bureau Veritas Job #: C574721
Report Date: 2025/06/30

GEMTEC LIMITED
Client Project #: 103940.007
Site Location: LEGETT 100 SERIES
Sampler Initials: NS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ASGL47	ASGL48				ASGL48			
Sampling Date		2025/06/18	2025/06/18				2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01				C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	RDL	MDL	QC Batch	BH25-101 SA3E Lab-Dup	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	<0.18	0.18	0.050	9959020				
Metals										
Hot Water Ext. Boron (B)	ug/g	0.76	0.42	0.050	0.030	9959186	0.42	0.050	0.030	9959186
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	0.10	9959253				
Acid Extractable Arsenic (As)	ug/g	1.0	<1.0	1.0	0.10	9959253				
Acid Extractable Barium (Ba)	ug/g	160	160	0.50	0.30	9959253				
Acid Extractable Beryllium (Be)	ug/g	0.24	0.22	0.20	0.020	9959253				
Acid Extractable Boron (B)	ug/g	5.6	<5.0	5.0	1.0	9959253				
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	0.030	9959253				
Acid Extractable Chromium (Cr)	ug/g	7.7	69	1.0	0.20	9959253				
Acid Extractable Cobalt (Co)	ug/g	3.5	2.3	0.10	0.020	9959253				
Acid Extractable Copper (Cu)	ug/g	5.7	4.6	0.50	0.20	9959253				
Acid Extractable Lead (Pb)	ug/g	9.8	4.4	1.0	0.10	9959253				
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	1.1	0.50	0.10	9959253				
Acid Extractable Nickel (Ni)	ug/g	10	6.7	0.50	0.20	9959253				
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	0.10	9959253				
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	0.040	9959253				
Acid Extractable Thallium (Tl)	ug/g	0.27	0.13	0.050	0.010	9959253				
Acid Extractable Uranium (U)	ug/g	0.29	0.55	0.050	0.030	9959253				
Acid Extractable Vanadium (V)	ug/g	6.3	9.6	5.0	0.50	9959253				
Acid Extractable Zinc (Zn)	ug/g	6.1	5.6	5.0	0.50	9959253				
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	0.030	9959253				

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

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ASGL49	ASGL50	ASGL51	ASGL52			
Sampling Date		2025/06/18	2025/06/18	2025/06/20	2025/06/20			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-102 SA1	BH25-102 SA5E	BH25-103 SA1	BH25-103 SA2	RDL	MDL	QC Batch
Inorganics								
Chromium (VI)	ug/g	<0.18	<0.18	<0.18	<0.18	0.18	0.050	9959020
Metals								
Hot Water Ext. Boron (B)	ug/g	0.62	0.55	1.2	0.52	0.050	0.030	9959186
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	0.10	9959253
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	1.3	<1.0	1.0	0.10	9959253
Acid Extractable Barium (Ba)	ug/g	160	150	280	53	0.50	0.30	9959253
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.26	<0.20	<0.20	0.20	0.020	9959253
Acid Extractable Boron (B)	ug/g	6.3	<5.0	8.5	<5.0	5.0	1.0	9959253
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.10	0.030	9959253
Acid Extractable Chromium (Cr)	ug/g	5.5	24	7.6	12	1.0	0.20	9959253
Acid Extractable Cobalt (Co)	ug/g	2.2	5.8	3.6	2.4	0.10	0.020	9959253
Acid Extractable Copper (Cu)	ug/g	4.4	7.0	6.0	7.2	0.50	0.20	9959253
Acid Extractable Lead (Pb)	ug/g	6.0	8.2	8.3	2.8	1.0	0.10	9959253
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.51	0.97	0.50	0.10	9959253
Acid Extractable Nickel (Ni)	ug/g	6.2	7.8	8.5	5.8	0.50	0.20	9959253
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	0.10	9959253
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	0.040	9959253
Acid Extractable Thallium (Tl)	ug/g	0.15	0.28	0.27	0.074	0.050	0.010	9959253
Acid Extractable Uranium (U)	ug/g	0.29	0.40	0.31	0.43	0.050	0.030	9959253
Acid Extractable Vanadium (V)	ug/g	<5.0	6.1	6.3	13	5.0	0.50	9959253
Acid Extractable Zinc (Zn)	ug/g	<5.0	5.3	6.3	9.1	5.0	0.50	9959253
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	0.030	9959253

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ASGL53	ASGL54				ASGL55			
Sampling Date		2025/06/20	2025/06/19				2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01				C#1048734-01-01			
	UNITS	BH25-104 SA1	BH25-104 SA2E	RDL	MDL	QC Batch	TCLP-COMP-100	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	<0.18	0.18	0.050	9959020				
Metals										
Hot Water Ext. Boron (B)	ug/g	0.33	0.36	0.050	0.030	9959186				
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	0.10	9959253				
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	1.0	0.10	9959253				
Leachable Arsenic (As)	mg/L						<0.2	0.2	0.01	9959221
Acid Extractable Barium (Ba)	ug/g	110	170	0.50	0.30	9959253				
Leachable Barium (Ba)	mg/L						0.8	0.2	0.01	9959221
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.22	0.20	0.020	9959253				
Acid Extractable Boron (B)	ug/g	<5.0	5.3	5.0	1.0	9959253				
Leachable Boron (B)	mg/L						0.1	0.1	0.02	9959221
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	0.030	9959253				
Leachable Cadmium (Cd)	mg/L						<0.05	0.05	0.0007	9959221
Acid Extractable Chromium (Cr)	ug/g	6.8	6.9	1.0	0.20	9959253				
Leachable Chromium (Cr)	mg/L						<0.1	0.1	0.01	9959221
Acid Extractable Cobalt (Co)	ug/g	2.3	3.1	0.10	0.020	9959253				
Acid Extractable Copper (Cu)	ug/g	3.6	4.5	0.50	0.20	9959253				
Acid Extractable Lead (Pb)	ug/g	6.1	7.9	1.0	0.10	9959253				
Leachable Lead (Pb)	mg/L						<0.1	0.1	0.001	9959221
Leachable Mercury (Hg)	mg/L						<0.001	0.001	0.0005	9959221
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.50	0.10	9959253				
Leachable Selenium (Se)	mg/L						<0.1	0.1	0.01	9959221
Acid Extractable Nickel (Ni)	ug/g	6.7	8.3	0.50	0.20	9959253				
Leachable Silver (Ag)	mg/L						<0.01	0.01	0.001	9959221
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	0.10	9959253				
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	0.040	9959253				
Acid Extractable Thallium (Tl)	ug/g	0.12	0.17	0.050	0.010	9959253				
Acid Extractable Uranium (U)	ug/g	0.29	0.24	0.050	0.030	9959253				
Leachable Uranium (U)	mg/L						<0.01	0.01	0.001	9959221
Acid Extractable Vanadium (V)	ug/g	6.2	6.0	5.0	0.50	9959253				
Acid Extractable Zinc (Zn)	ug/g	5.2	8.1	5.0	0.50	9959253				

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C574721
Report Date: 2025/06/30

GEMTEC LIMITED
Client Project #: 103940.007
Site Location: LEGETT 100 SERIES
Sampler Initials: NS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ASGL53	ASGL54				ASGL55			
Sampling Date		2025/06/20	2025/06/19				2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01				C#1048734-01-01			
	UNITS	**BH25-104 SA1**	**BH25-104 SA2E**	**RDL**	**MDL**	**QC Batch**	**TCLP-COMP-100**	**RDL**	**MDL**	**QC Batch**
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	0.030	9959253				

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ASGL47	ASGL48	ASGL49	ASGL50			
Sampling Date		2025/06/18	2025/06/18	2025/06/18	2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	BH25-102 SA1	BH25-102 SA5E	RDL	MDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	0.015	<0.0071	<0.0071	<0.0071	0.0071	N/A	9956285
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9958550
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Benzo(a)anthracene	ug/g	0.0087	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Benzo(a)pyrene	ug/g	0.018	0.0062	0.0075	<0.0050	0.0050	0.00040	9958550
Benzo(b/j)fluoranthene	ug/g	0.021	0.0079	0.0096	<0.0050	0.0050	0.00060	9958550
Benzo(g,h,i)perylene	ug/g	0.057	0.020	0.025	0.010	0.0050	0.00050	9958550
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9958550
Chrysene	ug/g	0.015	0.0062	0.0077	<0.0050	0.0050	0.00030	9958550
Dibenzo(a,h)anthracene	ug/g	0.0075	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9958550
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9958550
Indeno(1,2,3-cd)pyrene	ug/g	0.017	0.0057	0.0076	<0.0050	0.0050	0.00030	9958550
1-Methylnaphthalene	ug/g	0.0053	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
2-Methylnaphthalene	ug/g	0.0096	<0.0050	0.0058	<0.0050	0.0050	0.00070	9958550
Naphthalene	ug/g	0.023	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Phenanthrene	ug/g	0.018	0.0071	0.0098	0.0062	0.0050	0.00040	9958550
Pyrene	ug/g	0.022	0.0065	0.0097	0.0055	0.0050	0.00030	9958550
Surrogate Recovery (%)								
D10-Anthracene	%	100	100	97	99			9958550
D14-Terphenyl (FS)	%	97	98	97	97			9958550
D8-Acenaphthylene	%	108	107	108	109			9958550

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

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ASGL51	ASGL52	ASGL53	ASGL54			
Sampling Date		2025/06/20	2025/06/20	2025/06/20	2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-103 SA1	BH25-103 SA2	BH25-104 SA1	BH25-104 SA2E	RDL	MDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	0.017	<0.0071	<0.0071	<0.0071	0.0071	N/A	9956285
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9958550
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Benzo(a)anthracene	ug/g	0.0096	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Benzo(a)pyrene	ug/g	0.0080	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Benzo(b/j)fluoranthene	ug/g	0.015	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
Benzo(g,h,i)perylene	ug/g	0.026	0.0056	<0.0050	0.0068	0.0050	0.00050	9958550
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9958550
Chrysene	ug/g	0.014	<0.0050	<0.0050	0.0058	0.0050	0.00030	9958550
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9958550
Fluoranthene	ug/g	0.025	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00050	9958550
Indeno(1,2,3-cd)pyrene	ug/g	0.0092	<0.0050	<0.0050	<0.0050	0.0050	0.00030	9958550
1-Methylnaphthalene	ug/g	0.0060	<0.0050	<0.0050	<0.0050	0.0050	0.00060	9958550
2-Methylnaphthalene	ug/g	0.011	<0.0050	<0.0050	<0.0050	0.0050	0.00070	9958550
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.00040	9958550
Phenanthrene	ug/g	0.035	0.0050	0.0064	0.011	0.0050	0.00040	9958550
Pyrene	ug/g	0.025	<0.0050	<0.0050	0.0061	0.0050	0.00030	9958550
Surrogate Recovery (%)								
D10-Anthracene	%	102	103	99	100			9958550
D14-Terphenyl (FS)	%	100	101	98	99			9958550
D8-Acenaphthylene	%	112	107	106	107			9958550

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

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		ASGL55			
Sampling Date		2025/06/19			
COC Number		C#1048734-01-01			
	UNITS	**TCLP-COMP-100**	**RDL**	**MDL**	**QC Batch**
Polyaromatic Hydrocarbons					
Leachable Benzo(a)pyrene	ug/L	<0.10	0.10	0.020	9958936
Surrogate Recovery (%)					
Leachable D10-Anthracene	%	101			9958936
Leachable D14-Terphenyl (FS)	%	83			9958936
Leachable D8-Acenaphthylene	%	93			9958936

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL47	ASGL48	ASGL49			
Sampling Date		2025/06/18	2025/06/18	2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	BH25-102 SA1	RDL	MDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	0.010	9956286
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	0.49	9957507
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	0.0060	9957507
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	0.049	9957507
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	0.030	9957507
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	9957507
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Hexane	ug/g	<0.040	<0.040	0.086	0.040	0.040	9957507
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	0.049	9957507
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	0.40	9957507
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	0.40	9957507
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL47	ASGL48	ASGL49			
Sampling Date		2025/06/18	2025/06/18	2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	BH25-102 SA1	RDL	MDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	9957507
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	9957507
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	0.019	9957507
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	9957507
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	9957507
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	0.020	9957507
F1 (C6-C10)	ug/g	<10	<10	<10	10	2.0	9957507
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	2.0	9957507
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	107	106	107			9957507
D10-o-Xylene	%	101	104	119			9957507
D4-1,2-Dichloroethane	%	98	98	103			9957507
D8-Toluene	%	82	84	81			9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL50	ASGL51	ASGL52			
Sampling Date		2025/06/18	2025/06/20	2025/06/20			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-102 SA5E	BH25-103 SA1	BH25-103 SA2	RDL	MDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	0.010	9956286
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	0.49	9957507
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	0.0060	9957507
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	0.049	9957507
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	0.030	9957507
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	9957507
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Hexane	ug/g	<0.040	<0.040	0.14	0.040	0.040	9957507
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	0.049	9957507
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	0.40	9957507
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	0.40	9957507
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL50	ASGL51	ASGL52			
Sampling Date		2025/06/18	2025/06/20	2025/06/20			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-102 SA5E	BH25-103 SA1	BH25-103 SA2	RDL	MDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Toluene	ug/g	<0.020	<0.020	0.071	0.020	0.020	9957507
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	9957507
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	9957507
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	0.019	9957507
p+m-Xylene	ug/g	<0.020	<0.020	0.044	0.020	0.020	9957507
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	9957507
Total Xylenes	ug/g	<0.020	<0.020	0.044	0.020	0.020	9957507
F1 (C6-C10)	ug/g	<10	<10	<10	10	2.0	9957507
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	2.0	9957507
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	108	107	108			9957507
D10-o-Xylene	%	109	102	113			9957507
D4-1,2-Dichloroethane	%	99	98	103			9957507
D8-Toluene	%	82	82	83			9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL53	ASGL54			
Sampling Date		2025/06/20	2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-104 SA1	BH25-104 SA2E	RDL	MDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	0.010	9956286
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	0.49	9957507
Benzene	ug/g	<0.0060	<0.0060	0.0060	0.0060	9957507
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
Bromoform	ug/g	<0.040	<0.040	0.040	0.040	9957507
Bromomethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	0.040	9957507
Chlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	9957507
Chloroform	ug/g	<0.040	<0.040	0.040	0.040	9957507
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	9957507
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	0.049	9957507
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	9957507
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	9957507
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	0.040	9957507
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	0.030	9957507
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	0.040	9957507
Ethylbenzene	ug/g	<0.010	<0.010	0.010	0.010	9957507
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	0.040	9957507
Hexane	ug/g	<0.040	0.047	0.040	0.040	9957507
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	0.049	9957507
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	0.40	9957507
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	0.40	9957507
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	0.040	9957507
Styrene	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	0.040	9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL53	ASGL54			
Sampling Date		2025/06/20	2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-104 SA1	BH25-104 SA2E	RDL	MDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	0.040	9957507
Toluene	ug/g	<0.020	<0.020	0.020	0.020	9957507
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	0.040	9957507
Trichloroethylene	ug/g	<0.010	<0.010	0.010	0.010	9957507
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	0.040	9957507
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	0.019	9957507
p+m-Xylene	ug/g	<0.020	<0.020	0.020	0.020	9957507
o-Xylene	ug/g	<0.020	<0.020	0.020	0.020	9957507
Total Xylenes	ug/g	<0.020	<0.020	0.020	0.020	9957507
F1 (C6-C10)	ug/g	<10	<10	10	2.0	9957507
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	2.0	9957507
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	109	105			9957507
D10-o-Xylene	%	114	113			9957507
D4-1,2-Dichloroethane	%	102	97			9957507
D8-Toluene	%	82	82			9957507

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		ASGL55			
Sampling Date		2025/06/19			
COC Number		C#1048734-01-01			
	UNITS	TCLP-COMP-100	RDL	MDL	QC Batch
Volatile Organics					
Leachable Benzene	mg/L	<0.020	0.020	0.0020	9959520
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	0.0020	9959520
Leachable Chlorobenzene	mg/L	<0.020	0.020	0.0020	9959520
Leachable Chloroform	mg/L	<0.020	0.020	0.0020	9959520
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	9959520
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	9959520
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	0.0040	9959520
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	0.0020	9959520
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	0.010	9959520
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	1.0	9959520
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	0.0020	9959520
Leachable Trichloroethylene	mg/L	<0.020	0.020	0.0020	9959520
Leachable Vinyl Chloride	mg/L	<0.020	0.020	0.0040	9959520
Surrogate Recovery (%)					
Leachable 4-Bromofluorobenzene	%	99			9959520
Leachable D4-1,2-Dichloroethane	%	104			9959520
Leachable D8-Toluene	%	94			9959520

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ASGL47	ASGL48	ASGL49			
Sampling Date		2025/06/18	2025/06/18	2025/06/18			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-101 SA1	BH25-101 SA3E	BH25-102 SA1	RDL	MDL	QC Batch
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1900	790	770	100	100	9960282
F2 (C10-C16 Hydrocarbons)	ug/g	21	12	20	7.0	5.0	9958680
F3 (C16-C34 Hydrocarbons)	ug/g	510	230	240	50	5.0	9958680
F4 (C34-C50 Hydrocarbons)	ug/g	700	300	330	50	10	9958680
Reached Baseline at C50	ug/g	No	No	No			9958680
Surrogate Recovery (%)							
o-Terphenyl	%	95	96	94			9958680

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ASGL50				ASGL51			
Sampling Date		2025/06/18				2025/06/20			
COC Number		C#1048734-01-01				C#1048734-01-01			
	UNITS	BH25-102 SA5E	RDL	MDL	QC Batch	BH25-103 SA1	RDL	MDL	QC Batch
F2-F4 Hydrocarbons									
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g					1400	100	100	9960282
F2 (C10-C16 Hydrocarbons)	ug/g	14	7.0	5.0	9958680	10	7.0	5.0	9958680
F3 (C16-C34 Hydrocarbons)	ug/g	99	50	5.0	9958680	120	50	5.0	9958680
F4 (C34-C50 Hydrocarbons)	ug/g	120	50	10	9958680	630	50	10	9958680
Reached Baseline at C50	ug/g	Yes			9958680	No			9958680
Surrogate Recovery (%)									
o-Terphenyl	%	95			9958680	96			9958680

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ASGL52	ASGL53	ASGL54			
Sampling Date		2025/06/20	2025/06/20	2025/06/19			
COC Number		C#1048734-01-01	C#1048734-01-01	C#1048734-01-01			
	UNITS	BH25-103 SA2	BH25-104 SA1	BH25-104 SA2E	RDL	MDL	QC Batch
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<7.0	13	18	7.0	5.0	9958680
F3 (C16-C34 Hydrocarbons)	ug/g	61	<50	79	50	5.0	9958680
F4 (C34-C50 Hydrocarbons)	ug/g	93	66	130	50	10	9958680
Reached Baseline at C50	ug/g	Yes	Yes	Yes			9958680
Surrogate Recovery (%)							
o-Terphenyl	%	96	96	93			9958680

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

GENERAL COMMENTS

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

Package 1	16.7°C
Package 2	16.7°C

Results relate only to the items tested.

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9957388	JTS	RPD	Moisture	2025/06/25	0		%	20
9957507	DW5	Matrix Spike	4-Bromofluorobenzene	2025/06/25		110	%	60 - 140
			D10-o-Xylene	2025/06/25		128	%	60 - 130
			D4-1,2-Dichloroethane	2025/06/25		100	%	60 - 140
			D8-Toluene	2025/06/25		100	%	60 - 140
			Acetone (2-Propanone)	2025/06/25		85	%	60 - 140
			Benzene	2025/06/25		100	%	60 - 140
			Bromodichloromethane	2025/06/25		98	%	60 - 140
			Bromoform	2025/06/25		107	%	60 - 140
			Bromomethane	2025/06/25		99	%	60 - 140
			Carbon Tetrachloride	2025/06/25		112	%	60 - 140
			Chlorobenzene	2025/06/25		94	%	60 - 140
			Chloroform	2025/06/25		100	%	60 - 140
			Dibromochloromethane	2025/06/25		102	%	60 - 140
			1,2-Dichlorobenzene	2025/06/25		96	%	60 - 140
			1,3-Dichlorobenzene	2025/06/25		94	%	60 - 140
			1,4-Dichlorobenzene	2025/06/25		98	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2025/06/25		120	%	60 - 140
			1,1-Dichloroethane	2025/06/25		91	%	60 - 140
			1,2-Dichloroethane	2025/06/25		95	%	60 - 140
			1,1-Dichloroethylene	2025/06/25		94	%	60 - 140
			cis-1,2-Dichloroethylene	2025/06/25		111	%	60 - 140
			trans-1,2-Dichloroethylene	2025/06/25		109	%	60 - 140
			1,2-Dichloropropane	2025/06/25		92	%	60 - 140
			cis-1,3-Dichloropropene	2025/06/25		86	%	60 - 140
			trans-1,3-Dichloropropene	2025/06/25		84	%	60 - 140
			Ethylbenzene	2025/06/25		95	%	60 - 140
			Ethylene Dibromide	2025/06/25		97	%	60 - 140
			Hexane	2025/06/25		108	%	60 - 140
			Methylene Chloride(Dichloromethane)	2025/06/25		119	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2025/06/25		88	%	60 - 140
			Methyl Isobutyl Ketone	2025/06/25		96	%	60 - 140
			Methyl t-butyl ether (MTBE)	2025/06/25		101	%	60 - 140
			Styrene	2025/06/25		95	%	60 - 140
			1,1,1,2-Tetrachloroethane	2025/06/25		108	%	60 - 140
			1,1,2,2-Tetrachloroethane	2025/06/25		86	%	60 - 140
			Tetrachloroethylene	2025/06/25		104	%	60 - 140
			Toluene	2025/06/25		94	%	60 - 140
			1,1,1-Trichloroethane	2025/06/25		102	%	60 - 140
			1,1,2-Trichloroethane	2025/06/25		79	%	60 - 140
			Trichloroethylene	2025/06/25		113	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2025/06/25		102	%	60 - 140
			Vinyl Chloride	2025/06/25		96	%	60 - 140
			p+m-Xylene	2025/06/25		94	%	60 - 140
			o-Xylene	2025/06/25		106	%	60 - 140
			F1 (C6-C10)	2025/06/25		100	%	60 - 140
9957507	DW5	Spiked Blank	4-Bromofluorobenzene	2025/06/25		108	%	60 - 140
			D10-o-Xylene	2025/06/25		99	%	60 - 130
			D4-1,2-Dichloroethane	2025/06/25		94	%	60 - 140
			D8-Toluene	2025/06/25		99	%	60 - 140
			Acetone (2-Propanone)	2025/06/25		80	%	60 - 140
			Benzene	2025/06/25		95	%	60 - 130
			Bromodichloromethane	2025/06/25		92	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bromoform	2025/06/25		102	%	60 - 130
			Bromomethane	2025/06/25		96	%	60 - 140
			Carbon Tetrachloride	2025/06/25		105	%	60 - 130
			Chlorobenzene	2025/06/25		90	%	60 - 130
			Chloroform	2025/06/25		93	%	60 - 130
			Dibromochloromethane	2025/06/25		97	%	60 - 130
			1,2-Dichlorobenzene	2025/06/25		94	%	60 - 130
			1,3-Dichlorobenzene	2025/06/25		94	%	60 - 130
			1,4-Dichlorobenzene	2025/06/25		97	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2025/06/25		120	%	60 - 140
			1,1-Dichloroethane	2025/06/25		85	%	60 - 130
			1,2-Dichloroethane	2025/06/25		89	%	60 - 130
			1,1-Dichloroethylene	2025/06/25		89	%	60 - 130
			cis-1,2-Dichloroethylene	2025/06/25		105	%	60 - 130
			trans-1,2-Dichloroethylene	2025/06/25		104	%	60 - 130
			1,2-Dichloropropane	2025/06/25		87	%	60 - 130
			cis-1,3-Dichloropropene	2025/06/25		90	%	60 - 130
			trans-1,3-Dichloropropene	2025/06/25		89	%	60 - 130
			Ethylbenzene	2025/06/25		92	%	60 - 130
			Ethylene Dibromide	2025/06/25		93	%	60 - 130
			Hexane	2025/06/25		102	%	60 - 130
			Methylene Chloride(Dichloromethane)	2025/06/25		111	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2025/06/25		84	%	60 - 140
			Methyl Isobutyl Ketone	2025/06/25		93	%	60 - 130
			Methyl t-butyl ether (MTBE)	2025/06/25		99	%	60 - 130
			Styrene	2025/06/25		90	%	60 - 130
			1,1,1,2-Tetrachloroethane	2025/06/25		103	%	60 - 130
			1,1,2,2-Tetrachloroethane	2025/06/25		81	%	60 - 130
			Tetrachloroethylene	2025/06/25		99	%	60 - 130
			Toluene	2025/06/25		90	%	60 - 130
			1,1,1-Trichloroethane	2025/06/25		97	%	60 - 130
			1,1,2-Trichloroethane	2025/06/25		73	%	60 - 130
			Trichloroethylene	2025/06/25		107	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2025/06/25		95	%	60 - 130
			Vinyl Chloride	2025/06/25		92	%	60 - 130
			p+m-Xylene	2025/06/25		92	%	60 - 130
			o-Xylene	2025/06/25		101	%	60 - 130
			F1 (C6-C10)	2025/06/25		94	%	80 - 120
9957507	DW5	Method Blank	4-Bromofluorobenzene	2025/06/25		107	%	60 - 140
			D10-o-Xylene	2025/06/25		95	%	60 - 130
			D4-1,2-Dichloroethane	2025/06/25		91	%	60 - 140
			D8-Toluene	2025/06/25		84	%	60 - 140
			Acetone (2-Propanone)	2025/06/25	<0.49		ug/g	
			Benzene	2025/06/25	<0.0060		ug/g	
			Bromodichloromethane	2025/06/25	<0.040		ug/g	
			Bromoform	2025/06/25	<0.040		ug/g	
			Bromomethane	2025/06/25	<0.040		ug/g	
			Carbon Tetrachloride	2025/06/25	<0.040		ug/g	
			Chlorobenzene	2025/06/25	<0.040		ug/g	
			Chloroform	2025/06/25	<0.040		ug/g	
			Dibromochloromethane	2025/06/25	<0.040		ug/g	
			1,2-Dichlorobenzene	2025/06/25	<0.040		ug/g	
			1,3-Dichlorobenzene	2025/06/25	<0.040		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,4-Dichlorobenzene	2025/06/25	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2025/06/25	<0.040		ug/g	
			1,1-Dichloroethane	2025/06/25	<0.040		ug/g	
			1,2-Dichloroethane	2025/06/25	<0.049		ug/g	
			1,1-Dichloroethylene	2025/06/25	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2025/06/25	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2025/06/25	<0.040		ug/g	
			1,2-Dichloropropane	2025/06/25	<0.040		ug/g	
			cis-1,3-Dichloropropene	2025/06/25	<0.030		ug/g	
			trans-1,3-Dichloropropene	2025/06/25	<0.040		ug/g	
			Ethylbenzene	2025/06/25	<0.010		ug/g	
			Ethylene Dibromide	2025/06/25	<0.040		ug/g	
			Hexane	2025/06/25	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2025/06/25	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2025/06/25	<0.40		ug/g	
			Methyl Isobutyl Ketone	2025/06/25	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2025/06/25	<0.040		ug/g	
			Styrene	2025/06/25	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2025/06/25	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2025/06/25	<0.040		ug/g	
			Tetrachloroethylene	2025/06/25	<0.040		ug/g	
			Toluene	2025/06/25	<0.020		ug/g	
			1,1,1-Trichloroethane	2025/06/25	<0.040		ug/g	
			1,1,2-Trichloroethane	2025/06/25	<0.040		ug/g	
			Trichloroethylene	2025/06/25	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2025/06/25	<0.040		ug/g	
			Vinyl Chloride	2025/06/25	<0.019		ug/g	
			p+m-Xylene	2025/06/25	<0.020		ug/g	
			o-Xylene	2025/06/25	<0.020		ug/g	
			Total Xylenes	2025/06/25	<0.020		ug/g	
			F1 (C6-C10)	2025/06/25	<10		ug/g	
			F1 (C6-C10) - BTEX	2025/06/25	<10		ug/g	
9957507	DW5	RPD	Acetone (2-Propanone)	2025/06/25	NC		%	50
			Benzene	2025/06/25	NC		%	50
			Bromodichloromethane	2025/06/25	NC		%	50
			Bromoform	2025/06/25	NC		%	50
			Bromomethane	2025/06/25	NC		%	50
			Carbon Tetrachloride	2025/06/25	NC		%	50
			Chlorobenzene	2025/06/25	NC		%	50
			Chloroform	2025/06/25	NC		%	50
			Dibromochloromethane	2025/06/25	NC		%	50
			1,2-Dichlorobenzene	2025/06/25	NC		%	50
			1,3-Dichlorobenzene	2025/06/25	NC		%	50
			1,4-Dichlorobenzene	2025/06/25	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2025/06/25	NC		%	50
			1,1-Dichloroethane	2025/06/25	NC		%	50
			1,2-Dichloroethane	2025/06/25	NC		%	50
			1,1-Dichloroethylene	2025/06/25	NC		%	50
			cis-1,2-Dichloroethylene	2025/06/25	NC		%	50
			trans-1,2-Dichloroethylene	2025/06/25	NC		%	50
			1,2-Dichloropropane	2025/06/25	NC		%	50
			cis-1,3-Dichloropropene	2025/06/25	NC		%	50
			trans-1,3-Dichloropropene	2025/06/25	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Ethylbenzene	2025/06/25	NC		%	50
			Ethylene Dibromide	2025/06/25	NC		%	50
			Hexane	2025/06/25	NC		%	50
			Methylene Chloride(Dichloromethane)	2025/06/25	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2025/06/25	NC		%	50
			Methyl Isobutyl Ketone	2025/06/25	NC		%	50
			Methyl t-butyl ether (MTBE)	2025/06/25	NC		%	50
			Styrene	2025/06/25	NC		%	50
			1,1,1,2-Tetrachloroethane	2025/06/25	NC		%	50
			1,1,2,2-Tetrachloroethane	2025/06/25	NC		%	50
			Tetrachloroethylene	2025/06/25	NC		%	50
			Toluene	2025/06/25	NC		%	50
			1,1,1-Trichloroethane	2025/06/25	NC		%	50
			1,1,2-Trichloroethane	2025/06/25	NC		%	50
			Trichloroethylene	2025/06/25	NC		%	50
			Trichlorofluoromethane (FREON 11)	2025/06/25	NC		%	50
			Vinyl Chloride	2025/06/25	NC		%	50
			p+m-Xylene	2025/06/25	NC		%	50
			o-Xylene	2025/06/25	NC		%	50
			Total Xylenes	2025/06/25	NC		%	50
			F1 (C6-C10)	2025/06/25	NC		%	30
			F1 (C6-C10) - BTEX	2025/06/25	NC		%	30
9958386	HH	Matrix Spike	Leachable Nitrite (N)	2025/06/26		106	%	80 - 120
			Leachable Nitrate (N)	2025/06/26		94	%	80 - 120
			Leachable Nitrate + Nitrite (N)	2025/06/26		96	%	80 - 120
9958386	HH	Leachate Blank	Leachable Nitrite (N)	2025/06/26	<0.10		mg/L	
			Leachable Nitrate (N)	2025/06/26	<1.0		mg/L	
			Leachable Nitrate + Nitrite (N)	2025/06/26	<1.0		mg/L	
9958386	HH	Spiked Blank	Leachable Nitrite (N)	2025/06/26		102	%	80 - 120
			Leachable Nitrate (N)	2025/06/26		99	%	80 - 120
			Leachable Nitrate + Nitrite (N)	2025/06/26		100	%	80 - 120
9958386	HH	Method Blank	Leachable Nitrite (N)	2025/06/26	<0.10		mg/L	
			Leachable Nitrate (N)	2025/06/26	<1.0		mg/L	
			Leachable Nitrate + Nitrite (N)	2025/06/26	<1.0		mg/L	
9958386	HH	RPD	Leachable Nitrite (N)	2025/06/26	NC		%	20
			Leachable Nitrate (N)	2025/06/26	NC		%	20
			Leachable Nitrate + Nitrite (N)	2025/06/26	NC		%	20
9958390	NGI	Matrix Spike	Leachable Fluoride (F-)	2025/06/26		99	%	80 - 120
9958390	NGI	Leachate Blank	Leachable Fluoride (F-)	2025/06/26	<0.10		mg/L	
9958390	NGI	Spiked Blank	Leachable Fluoride (F-)	2025/06/26		107	%	80 - 120
9958390	NGI	Method Blank	Leachable Fluoride (F-)	2025/06/26	<0.10		mg/L	
9958390	NGI	RPD	Leachable Fluoride (F-)	2025/06/26	NC		%	25
9958391	GYA	Matrix Spike	Leachable WAD Cyanide (Free)	2025/06/26		106	%	80 - 120
9958391	GYA	Leachate Blank	Leachable WAD Cyanide (Free)	2025/06/26	<0.010		mg/L	
9958391	GYA	Spiked Blank	Leachable WAD Cyanide (Free)	2025/06/26		110	%	80 - 120
9958391	GYA	Method Blank	Leachable WAD Cyanide (Free)	2025/06/26	<0.0020		mg/L	
9958391	GYA	RPD	Leachable WAD Cyanide (Free)	2025/06/26	NC		%	20
9958550	JYO	Matrix Spike	D10-Anthracene	2025/06/26		90	%	50 - 130
			D14-Terphenyl (FS)	2025/06/26		89	%	50 - 130
			D8-Acenaphthylene	2025/06/26		95	%	50 - 130
			Acenaphthene	2025/06/26		87	%	50 - 130
			Acenaphthylene	2025/06/26		98	%	50 - 130
			Anthracene	2025/06/26		99	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)anthracene	2025/06/26		94	%	50 - 130
			Benzo(a)pyrene	2025/06/26		84	%	50 - 130
			Benzo(b/j)fluoranthene	2025/06/26		81	%	50 - 130
			Benzo(g,h,i)perylene	2025/06/26		114	%	50 - 130
			Benzo(k)fluoranthene	2025/06/26		83	%	50 - 130
			Chrysene	2025/06/26		89	%	50 - 130
			Dibenzo(a,h)anthracene	2025/06/26		105	%	50 - 130
			Fluoranthene	2025/06/26		96	%	50 - 130
			Fluorene	2025/06/26		96	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/06/26		115	%	50 - 130
			1-Methylnaphthalene	2025/06/26		91	%	50 - 130
			2-Methylnaphthalene	2025/06/26		91	%	50 - 130
			Naphthalene	2025/06/26		88	%	50 - 130
			Phenanthrene	2025/06/26		92	%	50 - 130
			Pyrene	2025/06/26		100	%	50 - 130
9958550	JYO	Spiked Blank	D10-Anthracene	2025/06/26		80	%	50 - 130
			D14-Terphenyl (FS)	2025/06/26		79	%	50 - 130
			D8-Acenaphthylene	2025/06/26		87	%	50 - 130
			Acenaphthene	2025/06/26		79	%	50 - 130
			Acenaphthylene	2025/06/26		87	%	50 - 130
			Anthracene	2025/06/26		90	%	50 - 130
			Benzo(a)anthracene	2025/06/26		86	%	50 - 130
			Benzo(a)pyrene	2025/06/26		75	%	50 - 130
			Benzo(b/j)fluoranthene	2025/06/26		75	%	50 - 130
			Benzo(g,h,i)perylene	2025/06/26		102	%	50 - 130
			Benzo(k)fluoranthene	2025/06/26		74	%	50 - 130
			Chrysene	2025/06/26		80	%	50 - 130
			Dibenzo(a,h)anthracene	2025/06/26		87	%	50 - 130
			Fluoranthene	2025/06/26		86	%	50 - 130
			Fluorene	2025/06/26		87	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/06/26		101	%	50 - 130
			1-Methylnaphthalene	2025/06/26		83	%	50 - 130
			2-Methylnaphthalene	2025/06/26		83	%	50 - 130
			Naphthalene	2025/06/26		81	%	50 - 130
			Phenanthrene	2025/06/26		78	%	50 - 130
			Pyrene	2025/06/26		89	%	50 - 130
9958550	JYO	Method Blank	D10-Anthracene	2025/06/26		84	%	50 - 130
			D14-Terphenyl (FS)	2025/06/26		81	%	50 - 130
			D8-Acenaphthylene	2025/06/26		87	%	50 - 130
			Acenaphthene	2025/06/26	<0.0050		ug/g	
			Acenaphthylene	2025/06/26	<0.0050		ug/g	
			Anthracene	2025/06/26	<0.0050		ug/g	
			Benzo(a)anthracene	2025/06/26	<0.0050		ug/g	
			Benzo(a)pyrene	2025/06/26	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2025/06/26	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2025/06/26	<0.0050		ug/g	
			Benzo(k)fluoranthene	2025/06/26	<0.0050		ug/g	
			Chrysene	2025/06/26	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2025/06/26	<0.0050		ug/g	
			Fluoranthene	2025/06/26	<0.0050		ug/g	
			Fluorene	2025/06/26	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2025/06/26	<0.0050		ug/g	
			1-Methylnaphthalene	2025/06/26	<0.0050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2025/06/26	<0.0050		ug/g	
			Naphthalene	2025/06/26	<0.0050		ug/g	
			Phenanthrene	2025/06/26	<0.0050		ug/g	
			Pyrene	2025/06/26	<0.0050		ug/g	
9958550	JYO	RPD	Acenaphthene	2025/06/26	NC		%	40
			Acenaphthylene	2025/06/26	NC		%	40
			Anthracene	2025/06/26	NC		%	40
			Benzo(a)anthracene	2025/06/26	NC		%	40
			Benzo(a)pyrene	2025/06/26	NC		%	40
			Benzo(b/j)fluoranthene	2025/06/26	NC		%	40
			Benzo(g,h,i)perylene	2025/06/26	NC		%	40
			Benzo(k)fluoranthene	2025/06/26	NC		%	40
			Chrysene	2025/06/26	NC		%	40
			Dibenzo(a,h)anthracene	2025/06/26	NC		%	40
			Fluoranthene	2025/06/26	NC		%	40
			Fluorene	2025/06/26	NC		%	40
			Indeno(1,2,3-cd)pyrene	2025/06/26	NC		%	40
			1-Methylnaphthalene	2025/06/26	NC		%	40
			2-Methylnaphthalene	2025/06/26	NC		%	40
			Naphthalene	2025/06/26	NC		%	40
			Phenanthrene	2025/06/26	14		%	40
			Pyrene	2025/06/26	30		%	40
9958680	MSZ	Matrix Spike	o-Terphenyl	2025/06/26		95	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/26		89	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/06/26		92	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/06/26		92	%	60 - 140
9958680	MSZ	Spiked Blank	o-Terphenyl	2025/06/26		93	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/26		87	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2025/06/26		90	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2025/06/26		89	%	80 - 120
9958680	MSZ	Method Blank	o-Terphenyl	2025/06/26		97	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/26	<7.0		ug/g	
			F3 (C16-C34 Hydrocarbons)	2025/06/26	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2025/06/26	<50		ug/g	
9958680	MSZ	RPD	F2 (C10-C16 Hydrocarbons)	2025/06/26	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/06/26	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/06/26	NC		%	30
9958936	JYO	Matrix Spike	Leachable D10-Anthracene	2025/06/27		107	%	50 - 130
			Leachable D14-Terphenyl (FS)	2025/06/27		93	%	50 - 130
			Leachable D8-Acenaphthylene	2025/06/27		103	%	50 - 130
			Leachable Benzo(a)pyrene	2025/06/27		93	%	50 - 130
9958936	JYO	Spiked Blank	Leachable D10-Anthracene	2025/06/27		102	%	50 - 130
			Leachable D14-Terphenyl (FS)	2025/06/27		86	%	50 - 130
			Leachable D8-Acenaphthylene	2025/06/27		98	%	50 - 130
			Leachable Benzo(a)pyrene	2025/06/27		91	%	50 - 130
9958936	JYO	Method Blank	Leachable D10-Anthracene	2025/06/27		103	%	50 - 130
			Leachable D14-Terphenyl (FS)	2025/06/27		86	%	50 - 130
			Leachable D8-Acenaphthylene	2025/06/27		94	%	50 - 130
			Leachable Benzo(a)pyrene	2025/06/27	<0.10		ug/L	
9959020	RSU	Matrix Spike	Chromium (VI)	2025/06/27		69 (1)	%	70 - 130
9959020	RSU	Spiked Blank	Chromium (VI)	2025/06/27		92	%	80 - 120
9959020	RSU	Method Blank	Chromium (VI)	2025/06/27	<0.18		ug/g	
9959020	RSU	RPD	Chromium (VI)	2025/06/27	NC		%	35

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9959021	GTK	Spiked Blank	Conductivity	2025/06/27		102	%	90 - 110
9959021	GTK	Method Blank	Conductivity	2025/06/27	<0.002		mS/cm	
9959021	GTK	RPD	Conductivity	2025/06/27	2.4		%	10
9959033	GYA	Matrix Spike	WAD Cyanide (Free)	2025/06/27		105	%	75 - 125
9959033	GYA	Spiked Blank	WAD Cyanide (Free)	2025/06/27		109	%	80 - 120
9959033	GYA	Method Blank	WAD Cyanide (Free)	2025/06/27	<0.01		ug/g	
9959033	GYA	RPD	WAD Cyanide (Free)	2025/06/27	NC		%	35
9959147	SRT	Spiked Blank	Available (CaCl2) pH	2025/06/27		100	%	97 - 103
9959147	SRT	RPD	Available (CaCl2) pH	2025/06/27	0.060		%	N/A
9959186	JWK	Matrix Spike [ASGL48-01]	Hot Water Ext. Boron (B)	2025/06/27		94	%	75 - 125
9959186	JWK	Spiked Blank	Hot Water Ext. Boron (B)	2025/06/27		94	%	75 - 125
9959186	JWK	Method Blank	Hot Water Ext. Boron (B)	2025/06/27	<0.050		ug/g	
9959186	JWK	RPD [ASGL48-01]	Hot Water Ext. Boron (B)	2025/06/27	0.16		%	40
9959221	TLG	Matrix Spike	Leachable Arsenic (As)	2025/06/27		99	%	80 - 120
			Leachable Barium (Ba)	2025/06/27		98	%	80 - 120
			Leachable Boron (B)	2025/06/27		97	%	80 - 120
			Leachable Cadmium (Cd)	2025/06/27		96	%	80 - 120
			Leachable Chromium (Cr)	2025/06/27		96	%	80 - 120
			Leachable Lead (Pb)	2025/06/27		94	%	80 - 120
			Leachable Mercury (Hg)	2025/06/27		96	%	80 - 120
			Leachable Selenium (Se)	2025/06/27		102	%	80 - 120
			Leachable Silver (Ag)	2025/06/27		90	%	80 - 120
			Leachable Uranium (U)	2025/06/27		97	%	80 - 120
9959221	TLG	Leachate Blank	Leachable Arsenic (As)	2025/06/27	<0.2		mg/L	
			Leachable Barium (Ba)	2025/06/27	<0.2		mg/L	
			Leachable Boron (B)	2025/06/27	<0.1		mg/L	
			Leachable Cadmium (Cd)	2025/06/27	<0.05		mg/L	
			Leachable Chromium (Cr)	2025/06/27	<0.1		mg/L	
			Leachable Lead (Pb)	2025/06/27	<0.1		mg/L	
			Leachable Mercury (Hg)	2025/06/27	<0.001		mg/L	
			Leachable Selenium (Se)	2025/06/27	<0.1		mg/L	
			Leachable Silver (Ag)	2025/06/27	<0.01		mg/L	
			Leachable Uranium (U)	2025/06/27	<0.01		mg/L	
9959221	TLG	RPD	Leachable Arsenic (As)	2025/06/27	NC		%	35
			Leachable Barium (Ba)	2025/06/27	NC		%	35
			Leachable Boron (B)	2025/06/27	NC		%	35
			Leachable Cadmium (Cd)	2025/06/27	NC		%	35
			Leachable Chromium (Cr)	2025/06/27	NC		%	35
			Leachable Lead (Pb)	2025/06/27	NC		%	35
			Leachable Mercury (Hg)	2025/06/27	NC		%	35
			Leachable Selenium (Se)	2025/06/27	NC		%	35
			Leachable Silver (Ag)	2025/06/27	NC		%	35
			Leachable Uranium (U)	2025/06/27	NC		%	35
			Leachable Arsenic (As)	2025/06/27	NC		%	35
			Leachable Barium (Ba)	2025/06/27	NC		%	35
			Leachable Boron (B)	2025/06/27	1.9		%	35
			Leachable Cadmium (Cd)	2025/06/27	NC		%	35
			Leachable Chromium (Cr)	2025/06/27	NC		%	35
			Leachable Lead (Pb)	2025/06/27	NC		%	35
			Leachable Mercury (Hg)	2025/06/27	NC		%	35
			Leachable Selenium (Se)	2025/06/27	NC		%	35
			Leachable Silver (Ag)	2025/06/27	NC		%	35
			Leachable Uranium (U)	2025/06/27	NC		%	35

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9959221	TLG	Spiked Blank	Leachable Arsenic (As)	2025/06/27		100	%	80 - 120
			Leachable Barium (Ba)	2025/06/27		101	%	80 - 120
			Leachable Boron (B)	2025/06/27		101	%	80 - 120
			Leachable Cadmium (Cd)	2025/06/27		99	%	80 - 120
			Leachable Chromium (Cr)	2025/06/27		100	%	80 - 120
			Leachable Lead (Pb)	2025/06/27		99	%	80 - 120
			Leachable Mercury (Hg)	2025/06/27		100	%	80 - 120
			Leachable Selenium (Se)	2025/06/27		103	%	80 - 120
			Leachable Silver (Ag)	2025/06/27		94	%	80 - 120
			Leachable Uranium (U)	2025/06/27		99	%	80 - 120
9959221	TLG	Method Blank	Leachable Arsenic (As)	2025/06/27	<0.2		mg/L	
			Leachable Barium (Ba)	2025/06/27	<0.2		mg/L	
			Leachable Boron (B)	2025/06/27	<0.1		mg/L	
			Leachable Cadmium (Cd)	2025/06/27	<0.05		mg/L	
			Leachable Chromium (Cr)	2025/06/27	<0.1		mg/L	
			Leachable Lead (Pb)	2025/06/27	<0.1		mg/L	
			Leachable Mercury (Hg)	2025/06/27	<0.001		mg/L	
			Leachable Selenium (Se)	2025/06/27	<0.1		mg/L	
			Leachable Silver (Ag)	2025/06/27	<0.01		mg/L	
			Leachable Uranium (U)	2025/06/27	<0.01		mg/L	
9959253	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2025/06/27		91	%	75 - 125
			Acid Extractable Arsenic (As)	2025/06/27		95	%	75 - 125
			Acid Extractable Barium (Ba)	2025/06/27		90	%	75 - 125
			Acid Extractable Beryllium (Be)	2025/06/27		93	%	75 - 125
			Acid Extractable Boron (B)	2025/06/27		89	%	75 - 125
			Acid Extractable Cadmium (Cd)	2025/06/27		90	%	75 - 125
			Acid Extractable Chromium (Cr)	2025/06/27		87	%	75 - 125
			Acid Extractable Cobalt (Co)	2025/06/27		92	%	75 - 125
			Acid Extractable Copper (Cu)	2025/06/27		90	%	75 - 125
			Acid Extractable Lead (Pb)	2025/06/27		85	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2025/06/27		90	%	75 - 125
			Acid Extractable Nickel (Ni)	2025/06/27		89	%	75 - 125
			Acid Extractable Selenium (Se)	2025/06/27		93	%	75 - 125
			Acid Extractable Silver (Ag)	2025/06/27		87	%	75 - 125
			Acid Extractable Thallium (Tl)	2025/06/27		87	%	75 - 125
			Acid Extractable Uranium (U)	2025/06/27		88	%	75 - 125
			Acid Extractable Vanadium (V)	2025/06/27		89	%	75 - 125
			Acid Extractable Zinc (Zn)	2025/06/27		90	%	75 - 125
			Acid Extractable Mercury (Hg)	2025/06/27		82	%	75 - 125
9959253	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2025/06/27		97	%	80 - 120
			Acid Extractable Arsenic (As)	2025/06/27		102	%	80 - 120
			Acid Extractable Barium (Ba)	2025/06/27		98	%	80 - 120
			Acid Extractable Beryllium (Be)	2025/06/27		96	%	80 - 120
			Acid Extractable Boron (B)	2025/06/27		87	%	80 - 120
			Acid Extractable Cadmium (Cd)	2025/06/27		94	%	80 - 120
			Acid Extractable Chromium (Cr)	2025/06/27		97	%	80 - 120
			Acid Extractable Cobalt (Co)	2025/06/27		99	%	80 - 120
			Acid Extractable Copper (Cu)	2025/06/27		96	%	80 - 120
			Acid Extractable Lead (Pb)	2025/06/27		93	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2025/06/27		92	%	80 - 120
			Acid Extractable Nickel (Ni)	2025/06/27		97	%	80 - 120
			Acid Extractable Selenium (Se)	2025/06/27		101	%	80 - 120
			Acid Extractable Silver (Ag)	2025/06/27		92	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Thallium (Tl)	2025/06/27		95	%	80 - 120
			Acid Extractable Uranium (U)	2025/06/27		95	%	80 - 120
			Acid Extractable Vanadium (V)	2025/06/27		96	%	80 - 120
			Acid Extractable Zinc (Zn)	2025/06/27		99	%	80 - 120
			Acid Extractable Mercury (Hg)	2025/06/27		90	%	80 - 120
9959253	VIV	Method Blank	Acid Extractable Antimony (Sb)	2025/06/27	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2025/06/27	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2025/06/27	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2025/06/27	<0.20		ug/g	
			Acid Extractable Boron (B)	2025/06/27	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2025/06/27	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2025/06/27	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2025/06/27	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2025/06/27	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2025/06/27	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2025/06/27	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2025/06/27	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2025/06/27	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2025/06/27	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2025/06/27	<0.050		ug/g	
			Acid Extractable Uranium (U)	2025/06/27	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2025/06/27	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2025/06/27	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2025/06/27	<0.050		ug/g	
9959253	VIV	RPD	Acid Extractable Antimony (Sb)	2025/06/27	NC		%	30
			Acid Extractable Arsenic (As)	2025/06/27	1.3		%	30
			Acid Extractable Barium (Ba)	2025/06/27	3.9		%	30
			Acid Extractable Beryllium (Be)	2025/06/27	NC		%	30
			Acid Extractable Boron (B)	2025/06/27	NC		%	30
			Acid Extractable Cadmium (Cd)	2025/06/27	NC		%	30
			Acid Extractable Chromium (Cr)	2025/06/27	8.3		%	30
			Acid Extractable Cobalt (Co)	2025/06/27	3.7		%	30
			Acid Extractable Copper (Cu)	2025/06/27	0.52		%	30
			Acid Extractable Lead (Pb)	2025/06/27	3.3		%	30
			Acid Extractable Molybdenum (Mo)	2025/06/27	NC		%	30
			Acid Extractable Nickel (Ni)	2025/06/27	2.2		%	30
			Acid Extractable Selenium (Se)	2025/06/27	NC		%	30
			Acid Extractable Silver (Ag)	2025/06/27	NC		%	30
			Acid Extractable Thallium (Tl)	2025/06/27	6.2		%	30
			Acid Extractable Uranium (U)	2025/06/27	4.4		%	30
			Acid Extractable Vanadium (V)	2025/06/27	2.3		%	30
			Acid Extractable Zinc (Zn)	2025/06/27	4.9		%	30
9959315	GTK	Spiked Blank	Conductivity	2025/06/27		104	%	90 - 110
9959315	GTK	Method Blank	Conductivity	2025/06/27	<0.002		mS/cm	
9959315	GTK	RPD [ASGL49-01]	Conductivity	2025/06/27	1.3		%	10
9959520	GMN	Matrix Spike	Leachable 4-Bromofluorobenzene	2025/06/27		99	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2025/06/27		99	%	70 - 130
			Leachable D8-Toluene	2025/06/27		103	%	70 - 130
			Leachable Benzene	2025/06/27		100	%	70 - 130
			Leachable Carbon Tetrachloride	2025/06/27		108	%	70 - 130
			Leachable Chlorobenzene	2025/06/27		94	%	70 - 130
			Leachable Chloroform	2025/06/27		100	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2025/06/27		100	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable 1,4-Dichlorobenzene	2025/06/27		102	%	70 - 130
			Leachable 1,2-Dichloroethane	2025/06/27		100	%	70 - 130
			Leachable 1,1-Dichloroethylene	2025/06/27		103	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2025/06/27		106	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2025/06/27		100	%	60 - 140
			Leachable Tetrachloroethylene	2025/06/27		98	%	70 - 130
			Leachable Trichloroethylene	2025/06/27		102	%	70 - 130
			Leachable Vinyl Chloride	2025/06/27		93	%	70 - 130
9959520	GMN	Spiked Blank	Leachable 4-Bromofluorobenzene	2025/06/27		101	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2025/06/27		101	%	70 - 130
			Leachable D8-Toluene	2025/06/27		103	%	70 - 130
			Leachable Benzene	2025/06/27		101	%	70 - 130
			Leachable Carbon Tetrachloride	2025/06/27		107	%	70 - 130
			Leachable Chlorobenzene	2025/06/27		94	%	70 - 130
			Leachable Chloroform	2025/06/27		100	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2025/06/27		101	%	70 - 130
			Leachable 1,4-Dichlorobenzene	2025/06/27		102	%	70 - 130
			Leachable 1,2-Dichloroethane	2025/06/27		103	%	70 - 130
			Leachable 1,1-Dichloroethylene	2025/06/27		103	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2025/06/27		107	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2025/06/27		106	%	60 - 140
			Leachable Tetrachloroethylene	2025/06/27		98	%	70 - 130
			Leachable Trichloroethylene	2025/06/27		103	%	70 - 130
			Leachable Vinyl Chloride	2025/06/27		90	%	70 - 130
9959520	GMN	Method Blank	Leachable 4-Bromofluorobenzene	2025/06/27		98	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2025/06/27		104	%	70 - 130
			Leachable D8-Toluene	2025/06/27		93	%	70 - 130
			Leachable Benzene	2025/06/27	<0.020		mg/L	
			Leachable Carbon Tetrachloride	2025/06/27	<0.020		mg/L	
			Leachable Chlorobenzene	2025/06/27	<0.020		mg/L	
			Leachable Chloroform	2025/06/27	<0.020		mg/L	
			Leachable 1,2-Dichlorobenzene	2025/06/27	<0.050		mg/L	
			Leachable 1,4-Dichlorobenzene	2025/06/27	<0.050		mg/L	
			Leachable 1,2-Dichloroethane	2025/06/27	<0.050		mg/L	
			Leachable 1,1-Dichloroethylene	2025/06/27	<0.020		mg/L	
			Leachable Methylene Chloride(Dichloromethan	2025/06/27	<0.20		mg/L	
			Leachable Methyl Ethyl Ketone (2-Butanone)	2025/06/27	<1.0		mg/L	
			Leachable Tetrachloroethylene	2025/06/27	<0.020		mg/L	
			Leachable Trichloroethylene	2025/06/27	<0.020		mg/L	
			Leachable Vinyl Chloride	2025/06/27	<0.020		mg/L	
9959520	GMN	RPD	Leachable Benzene	2025/06/27	NC		%	30
			Leachable Carbon Tetrachloride	2025/06/27	NC		%	30
			Leachable Chlorobenzene	2025/06/27	NC		%	30
			Leachable Chloroform	2025/06/27	NC		%	30
			Leachable 1,2-Dichlorobenzene	2025/06/27	NC		%	30
			Leachable 1,4-Dichlorobenzene	2025/06/27	NC		%	30
			Leachable 1,2-Dichloroethane	2025/06/27	NC		%	30
			Leachable 1,1-Dichloroethylene	2025/06/27	NC		%	30
			Leachable Methylene Chloride(Dichloromethan	2025/06/27	NC		%	30
			Leachable Methyl Ethyl Ketone (2-Butanone)	2025/06/27	NC		%	30
			Leachable Tetrachloroethylene	2025/06/27	NC		%	30
			Leachable Trichloroethylene	2025/06/27	NC		%	30
			Leachable Vinyl Chloride	2025/06/27	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9960282	XGK	Matrix Spike	F4G-sg (Grav. Heavy Hydrocarbons)	2025/06/30		96	%	65 - 135
9960282	XGK	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2025/06/30		101	%	65 - 135
9960282	XGK	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2025/06/30	<100		ug/g	
9960282	XGK	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2025/06/30	6.1		%	50

N/A = Not Applicable

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

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

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

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

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

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

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

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results.

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

Louise Harding, Scientific Specialist

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

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