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Phase Two
Environmental Site Assessment

2775 & 2785 Palladium Drive; and
Block 244 Plan 4M 1687
Ottawa, Ontario

Prepared for:

Palladium Resort Development Limited Partnership
200-83 Auriga Drive
Ottawa, Ontario
K2E 8A5

LRL File No.: 240720

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EXECUTIVE SUMMARY

Palladium Resort Development Limited Partnership has retained LRL Engineering (LRL) to complete a Phase One Environmental Site Assessment Update (ESA) on the property comprised of the three (3) individual parcels of land identified as 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario (herein referred to as the "Site"). The Site is set within a high-density commercial and residential area of the City of Ottawa and is presently un-developed. The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. Culdaff Road bisects the three (3) parcels of land and makes up the western extent of 2775 and 2785 Pallidum Drive, Ottawa, Ontario.

The objectives of the Phase Two ESA are addressed the presence or absence of one or more contaminants at the Site as determined in the Phase One ESA and to assess the quality of the soil and groundwater. The Phase Two ESA was requested as part of due diligence in support of a proposed Site Plan Application submission with the City of Ottawa. It is understood that a commercial recreational development is anticipated for the Site, which is to include an aquatic park with accommodations and parking infrastructure.

The following is the executive summary of the Phase Two Environmental Site Assessment done by LRL Engineering:

Executive Summary	
Phase Two Property (the Site)	The property is comprised of three (3) individual parcels, each having the following dimensions: • Block 244, Plan 4M1687 (has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m2 (1.99 ha); • 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m2 (1.66 ha); and • 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m2 (1.66 ha). Each property parcel is presently owned by a separate owner, as follows: • 2775 Palladium Drive: 1000210754 Ontario Inc. since June 2022. • 2785 Palladium Drive: 1000210777 Ontario Inc. since June 2022. • Block 244, Plan 4M1687: 2325483 Ontario Ltd. The Site is presently undeveloped, although anticipated to be developed to include a commercial – recreations facility with accommodations and parking.
Phase Two Investigations	• Parts I through VI of Schedule D of O. Reg. 153/04, as amended, made under the Environmental Protection Act (R.S.O. 1990, Chapter E.19). • Canadian Standards Association (CSA) Phase II Environmental Site Assessment, Z769 00 (R2022).

Geologic Conditions	Geological maps were reviewed to obtain information on regional geology and surficial soils. Surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade. As discussed in greater detail herein, inferred bedrock conditions were encountered in select boreholes advanced as part of this assessment, with practical auger refusal encountered at depths of approximately 3.6 m below grade.
Hydrogeological Conditions	22 boreholes were advanced across the Site as part of this Phase Two Environmental Site Assessment. The general subsurface stratigraphy soil encountered in the boreholes consisted of between approximately 100 and 400 mm of topsoil, generally described as sandy with black organic materials, followed by either fill material, sand and silt to sand silt, silty sand of silty clay. The water table is located between 2.13 and 1.78 meters below ground surface (bgs). The groundwater flows towards the west direction.
Applicable Site Condition Standard	Ministry of the Environment, Conservation and Parks (MECP) “Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Groundwater Condition” (Table 3 Site Condition Standards) for coarse-grained soils in an Industrial/Commercial/Community (ICC) property use.
Soil and Groundwater Quality Data	Groundwater samples collected from the recently installed, and developed groundwater monitoring wells MW27 and MW32, as well as the respective duplicate sample, were found to have various parameters of concern detected, although no exceedances to the applicable site condition standards were encountered. Various VOCs, PAHs and metal-based parameters were detected, with concentrations below the respective Table 3 site condition standards. The remaining groundwater monitoring well constructed across the Site as part of this investigation encountered dry conditions at the time of the corresponding monitoring well development and groundwater sampling event. Soil samples submitted for laboratory analysis reported detected concentrations at select locations, for limited contaminates of concern. No exceedances were encountered to the applicable Table 3 site condition standards. Based on our findings and supported through the laboratory chemical analysis of soil and groundwater samples collected from across the Site, the identified four (4) APECs do not appear to have impaired the conditions of the Site in concentrations which render the material unsuitable to remain on the property, or such which would warrant remedial efforts.
Conclusions	The groundwater on the Phase Two Property meets the MECP Table 3 Standards ICC in a non-potable groundwater condition. According to the Natural Resources Canada interactive mapping system, The Atlas of Canada – Toporama, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west towards the unnamed water

	course. Water levels collected from the appliable groundwater monitoring wells confirmed this inferred groundwater flow direction. The findings presented in this report may be used by the Client. No further environmental work is considered warranted to confirm the conditions of the Site with respect to the identified potential contaminating activities. No environmental remediation is considered required. Consideration during construction to off-Site handling and disposal of excess soils should be as such outlined in Ontario Regulation 406/19.
Recommendations	The findings presented in this report may be used by the Client. The findings presented in this report may be used by the Client. No further environmental work is considered warranted to confirm the conditions of the Site with respect to the identified potential contaminating activities. No environmental remediation is considered required. Consideration during construction to off-Site handling and disposal of excess soils should be as such outlined in Ontario Regulation 406/19. During the proposed construction activities, should dewatering be required, a formal EASR should be filled with the MECP prior to initializing the work. Contaminated groundwater, including elevated concentrations of sediment, if encountered, must be treated prior to release across the Site, or into City services, otherwise, removal is to be done by a licensed hauler. Soils which exceed the respective O. Reg. 406/19 standards are not suitable for re-use and must be disposed of at a licensed landfill site if being excavated. Groundwater monitoring wells no longer required must be decommissioned in accordance with O. Reg. 903.
Limitations	Results of this Phase Two ESA should not be considered a warranty that the subject property is free from any and all contaminants from former and current practices, other than those noted in this report, nor that all compliance issues have been addressed.

TABLE OF CONTENTS

FIGURES

(In order following text)

TABLES

(In order following Figures)

APPENDICES

(In order following Tables)

1 INTRODUCTION

Palladium Resort Development Limited Partnership has retained LRL Engineering (LRL) to complete a Phase One Environmental Site Assessment Update (ESA) on the property comprised of the three (3) individual parcels of land identified as 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario (herein referred to as the "Site"). The Site is set within a high-density commercial and residential area of the City of Ottawa and is presently un-developed. The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. Culdaff Road bisects the three (3) parcels of land and makes up the western extent of 2775 and 2785 Pallidum Drive, Ottawa, Ontario. The Site's location is shown in **Figure 1**.

The objectives of the Phase Two ESA are addressed the presence or absence of one or more contaminants at the Site as determined in the Phase One ESA and to assess the quality of the soil and groundwater. The Phase Two ESA was requested as part of due diligence in support of a proposed Site Plan Application submission with the City of Ottawa. It is understood that a commercial recreational development is anticipated for the Site, which is to include an aquatic park with accommodations and parking infrastructure.

The Site is current undeveloped and based on available aerial imagery available through the City of Ottawa's interactive mapping system, geoOttawa, the Site has not been developed since at least 1976.

In 2025, a limited Phase ll Environmental Site Assessment was completed across 2775 and 2785 Palladium Drive to address the risk associated with identified suspected importation of fill of unknown quality across the property in support of the initial planning stages for the property. The findings of the limited Phase ll Environmental Site Assessment were documented in the July 2025 summary report provided to the client. The findings of the previously completed limited Phase ll Environmental Site Assessment have been included herein to address potential contaminating activities identified. No further reference to the previously completed report in 2025 will be mentioned, but rather a complete detailed summary of the previous works will be outlined herein along with the most recent subsurface investigation activities.

1.1 Site Description

The Site is comprised of three (3) individual parcels of land, identified as 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario. The Site is currently undeveloped and set within a high-density commercial and residential area of the City of Ottawa. Culdaff Road intercepts the east and western parcels in a general north – south direction. The adjacent lands to the north are forested land followed by the Highway 417. The adjacent lands to the south and west are residential developments. East of the Site, following Palladium Drive, is developed with commercial automotive sales and service facilities followed by office space and a professions sports stadium. A storm water management pond is presented immediately west of the Site, part of the adjacent residential developments. The Site Plan is presented in **Figure 2.**

A summary of the Site description is provided in **Table 1 – Section 1.1**

Table 1 – Section 1.1: Summary of Site Description

Parameters	Information
Location/ Address	The two (2) parcels of land located to the east of Culdaff Road: 2775 and 2785 Palladium Drive, Ottawa, Ontario; and No formal civic address is available for the parcel to the west of Culdaff Road: Block 244 Plan 4M1687, Ottawa, Ontario. The location of the Site is presented in the included **Figure 1**.
Property Identification Numbers (PINs)	PIN#:04487-3336 (LT) PIN#:04487-3344 (LT) PIN#:04487-3337(LT)
Legal Description	The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. A Legal Survey was not provided as part of this Phase One Environmental Site Assessment.
Shape	The property is comprised of three (3) individual parcels, each having the following dimensions: • Block 244, Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m2 (1.99 ha); • 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m2 (1.66 ha); and • 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m2 (1.66 ha). The general Site configuration is shown on the Site Plan in **Figure 2.** For the purposes of this report, Palladium Drive will be inferred as running in a north – south direction.
Access to the Phase Two Property	The Phase Two Property can be accessed from Culdaff Road along the eastern, and western extents of the Site, as shown in **Figure 1**.
Occupancy	Not Applicable. Undeveloped – Vacant.
Current Land Use	Undeveloped.
Proposed Future Land Use	Commercial – Recreational Facility with Accommodations and Parking.

1.2 Property Ownership

The Qualified Person from LRL was retained by the Client to carry out this Phase Two ESA. The Site ownership information is presented in **Table 2 – Section 1.2.**

Table 2 – Section 1.2: Phase Two Property Owner Contact Information

Company	Contact
Phase Two Property Owner	Palladium Resort Development Limited Partnership
Phase Two Property Contact	Not Applicable

1.3 Current and Proposed Land Uses

The Site is currently undeveloped with the exception of sewer monuments along the perimeter of the property, along Culdaff Road. It is anticipated that an indoor recreational facility (indoor water park – amusement park) will be constructed across 2775 and 2785 Palladium Drive, with the associated parking lot to the west on Block 244 Plan 4M1687 and a hotel along the northern extent of the now 2775 Palladium Drive.

1.4 Applicable Site Condition Standard

The results of the soil and groundwater chemical analysis were evaluated using the Standards prescribed in the Ministry of the Environment, Conservation and Parks (MECP) Table 3 Industrial/Commercial/Community (ICC) Standards for coarse-grained soils in a non-potable groundwater condition.

These Standards were used to evaluate soil and groundwater quality based on the samples collected and tested, to determine whether soil quality compiled with MECP Standards, and to determine whether additional investigations are required or warranted.

The Site was assessed using the standards contained in MECP Table 3 of the above referenced standards. The use of the Table 3 Standards is considered suitable by LRL based on the considerations listed in the following **Table 3 – Section 1.4**.

Table 3 – Section 1.4: Phase Two Property Conditions

Parameters	Information
Proposed Land Use	Commercial/Recreational (Amusement Park with lodging and parking)
Potable or Non-Potable Ground Water	Non-Potable Groundwater
Proximity to Surface Water	Although, a stormwater management pond is located immediately west of the Site, according to Ontario Regulation 153/04 (as amended), such a feature is not considered a water body. According to the Natural Resources Canada interactive mapping system, *The Atlas of Canada – Toporama*, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site.

Areas of Natural Significance	There are no Areas of Natural Scientific Interest (ANSI) in the study area, nor environmentally sensitive areas that encroach within 30 m of the Phase Two Property.
Nature and Depth of Bedrock Strata	Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade. As discussed in greater detail herein, inferred bedrock conditions were encountered in select boreholes advanced as part of this assessment, with practical auger refusal encountered at depths of approximately 3.6 m below grade.
Direction of Groundwater Flow	The inferred groundwater flow direction is west to northwest towards the unnamed water course.
Grain Size Analysis	Coarse textured soil will be applied for the purpose of this report.
PH of Soil	Soil pH was between 7 and 8, based on analytical results outlined in greater detail in further sections of this report.

Based on the Site conditions described in **Table 3 – Section 1.4**, the applicable criteria to be used in this Phase Two ESA is Ontario Regulation 153/04 "Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition" for Industrial/Commercial/Institutional (Table 3 ICC Standards) as per the MECP document titled *"Soil, Ground Water and Sediment Standards for Use under Part XV. 1 of the Environmental Protection Act",* dated April 15, 2011, as amended.

2 BACKGROUND INFORMATION

2.1 Physical Setting

The Site and general area are considered to have a generally flat topography. The Site has an approximate elevation of 106 m amsl.

Radon gas is a product of the decay series of uranium that is commonly found in geological units that contain black shale, sandstone or granite. Radon can percolate up through the soil where it may accumulate in basement of buildings with cracks or joints in the foundation. Because the existence of radon is dependent upon geological factors, it is more a regional concern than site specific. Due to the location of the Site, any radon levels would be considered medium risk..

There are no areas of natural significance encroaching within 30 m of the Site.

2.2 Previous Investigations

2.2.1 Limited Phase II Environmental Site Assessment, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, July 31, 2025;

LRL was retained to complete a Limited Phase II Environmental Site Assessment (ESA) at the property located at 2775, 2785 Palladium Drive, in Ottawa, Ontario. It was understood that the Limited Phase II ESA was requested in support of due diligence with respect proposed development planning consideration.

The site under investigation included 2775 and 2785 Palladium Drive in Ottawa, Ontario. At the time of this assessment, the Site was generally undeveloped and covered with overgrown

vegetation. It was understood at the time of the assessment that the proposed use would be commercial (indoor aquatic and recreation facility).

Based on available aerial imagery available through the City of Ottawa's interactive mapping system, geoOttawa, reviewed as part of the assessment, it was found that the property of concern had not been developed since at least 1976. No significant changes to the subject site were observed in the subsequent aerial imagery until 2019, when earth moving activities are evident on the site. These activities continue in the 2021 aerial imagery. It is unclear whether the earth moving activities involved removal soil from the property, or the introduction of soil. Large piles of material are evident in the images across the subject site, however their origin is unknown.

The report indicated that a Phase One Environmental Site Assessment was completed for the southern portion of the Site (2775 Palladium Drive) in February 2024 by Pinchin Ltd. The assessment was completed to identify any potential areas of environmental concern associated with the Site. LRL reviewed a copy of the report to obtain further information regarding potential environmental risks and concerns relating to the Site. Based on LRLs review of the report prepared by others, although this previously prepared report does not indicate any potential contaminating activities which may be of concern to the Site, through LRLs search of available historical aerial imagery, and other mapping tools, the following potential contaminating activity was identified on the Site (2275 and 2285 Palladium Drive):

- O. Reg. 153/04 PCA 30: Importation of Fill Material of Unknown Quality.

To address the potential contaminating activity identified, 12 boreholes were advanced across the Site from between March 31st and April 10th, 2025, in conjunction with a geotechnical investigation. The boreholes were advanced to depths between 2.4 and 6.6 m bgs using a CME 75 track-mounted drill rig equipped with 203 mm diameter hollow stem augers. Practical auger refusal over bedrock was encountered in each of eight (8) of the boreholes advanced. Boreholes BH-2, BH-7, BH-10 and BH-11, which were terminated at a depth of 3.6 m below grade, as per the mandate for this assessment.

During the borehole advancement, representative soil samples from each soil stratum encountered or split sampler were collected. No olfactory or visual (i.e. staining or free phase) evidence of petroleum hydrocarbon impacts were observed in any of the soil samples collected. CSV concentrations of select soil samples collected were all non-detect (<0.1 ppm). Evidence of suspected fill material was encountered at various borehole locations across the site, however no evidence of buried waste was uncovered.

VOC, PHC F1 and PHC F2 parameters analysed were not detected in soil samples submitted for laboratory analysis. PHC F3 and PHC F4 parameters were detected in each of the samples submitted, with the exception of BH14-SS, with concentrations reported below the respective site condition standards, and potential excess soil off-Site receptor standards. A total of five (5) samples were submitted for PAH analysis. These parameters were reported below the laboratory detection limits in each of the samples analysed. Organochlorine (OC) Pesticides were not detected in any of the soil samples submitted for laboratory analysis.

The samples submitted for metals and inorganics analysis revealed that various parameters were detected, however no exceedances to the appliable provincial standards and potential excess soil off-Site receptor standards were encountered.

The quality of the groundwater on the site was not confirmed as part of this Limited Phase II ESA.

Based on the observations during drilling activities complemented with sample screening and laboratory analysis, although select parameters were detected, concentrations reported were

found to meet the applicable O. Reg. 153/04, as amended Table 3 Site Condition Standards, as well as the O. Reg. 406/19 standard for off-Site disposal.

2.2.2 Geotechnical Investigation, Proposed Indoor Aquatic and Recreation Facility, 2775, 2785 Palladium Drive, Ottawa, Ontario, prepared by LRL Engineering, May 2025;

LRL was retained to perform a geotechnical investigation for a proposed indoor aquatic and recreation facility, to be located at 2775, 2785 Palladium Drive, Ottawa, Ontario. The purpose of the investigation was to identify the subsurface conditions across the site by the completion of a borehole drilling program. Based on the visual and factual information obtained, this report will provide guidelines on the geotechnical engineering aspects of the design of the project, including construction considerations.

At the time of generating this report, it was understood that development would consist of construction of an indoor aquatic and recreation facility, an entrance and support building (2-storey), two (2) hotel buildings (6-storey) and on-grade parking. Specific details about founding elevations and information pertaining to basement levels, if any; were not available at the time the report was prepared.

The investigation included the advancement of 23 boreholes across the subject property from between March 31st and April 10th, 2025, in conjunction with the limited Phase II Environmental Site Assessment mentioned in Section 2.2.1. The boreholes were advanced to depths ranging between 2.45 and 10.67 m below (existing) ground surface (bgs). NQ-size bedrock coring was carried out in five (5) of the boreholes after practical auger refusal. Upon completion, the boreholes were backfilled using the overburden cuttings. Piezometers were installed in five (5) of the boreholes to measure the static groundwater elevation. These consisted of ¾" PVC pipe with slotted bottoms, backfilled with silica sand, and sealed with bentonite.

The overburden materials were described to include Fill material from depth of between 0.76 and 2.21 m below grade in select locations. Other boreholes and underlying native overburden conditions reported included sand and silt; sandy silt; silty sand; silty clay; clayey silt; and silty. Refusal over inferred bedrock of large boulders was encountered in select locations at depths of between 2.45 and 9.15 m below grade.

Static groundwater levels encountered in the piezometers installed ranged between 1.80 and 4.60 m on May 15th, 2025. It should be noted that select monitoring wells extent into the bedrock, whereas others were terminated in the overburden. Additionally, the reports notes that groundwater levels could fluctuate with seasonal weather conditions, (i.e.: rainfall, droughts, spring thawing) and due to construction activities at or near the vicinity of the site.

3 SCOPE OF INVESTIGATION

3.1 Overview of Site Investigation

LRL's Phase Two ESA included the analysis of field investigations carried out between March 31st and April 10th, 2025, and May 25th and May 26th, 2026. The field investigation was carried out to assess the quality of the soil and groundwater of the Phase Two Property in relation to the Areas of Potential Environmental Concern (APECs) identified by the Phase One Conceptual Site Model, represented in this report as **Figure 3**. The field investigation was completed in conjunction with the above referenced Geotechnical Investigation, therefore additional boreholes were advanced, although have been excluded from this Phase Two Environmental Site Assessment.

The scope of the investigation included:

- Advancement of a total of twenty-two (22) boreholes to a maximum depth of between 4.2 and 8.3 m bgs;
- Six (6) boreholes were completed into monitoring wells designed to intercept the water table;
- Groundwater elevation measurements using an interphase probe for the potential measurements of free phase product either floating on the water table or the base of any water column;
- Collection of the geodetic elevations for borehole locations;
- Sample collection was carried out in accordance with the detailed sampling and analysis plan;
- Field observations were made in accordance with LRL's Standard of Operation (SOP); and
- Samples collected were submitted and analyzed by Paracel Laboratories Ltd. testing laboratory companies to the MECP Table 3 ICC Standards for coarse-textured soil.

3.2 Media Investigation

The Phase Two ESA was designed to investigate the potential for impact to soil and groundwater media on, in and beneath the Phase Two Property. The sampling of sediment was not performed, as there were no surface bodies of water on the Site during the Phase Two investigation.

3.2.1 Soil Investigation

The soil investigation was designed to investigate the APECs identified by the Phase One ESA, and consisted of the following components:

- Thirteen (13) boreholes were drilled on the Site, to a maximum depth of 8.3 m below ground surface (bgs) or until refusal, which ever is encountered first. These boreholes were completed between March 31st and April 10th, 2025;
- Nine (9) boreholes were drilled on the Site, to a maximum depth of between 3.0 and 4.2 m bgs. These boreholes were completed between May 25th and 26th, 2026;
- The boreholes were advanced by utilizing continuous flight hollow stem augers. Samples were retrieved at regular intervals with a 50 mm outside diameter split-barrel sampler driven with a hammer weighing 63.5 kg and dropping 760 mm;
- The split spoon samplers were cleaned with Liquinox soap solution and, methyl hydrate and rinsed with water between uses;

- Inspection and logging of the split-spoon samples in the field with observations noted pertaining to the soil type, composition, visual staining, discolouration, and olfactory clues for potential chemical impacts;
- Collection of soil samples from each soil layer;
- Prepared sub-samples for chemical laboratory analysis;
- Field screening of soil samples using RKI GX-6000 Photo Ionization Detector (PID) to measure headspace vapour concentrations and determine the potential existence of PHC fractions and other VOCs;
- Collection of sub-samples of soil for chemical laboratory analysis was done using laboratory prepared, pre-labelled jars and vials. Sub-samples were placed in coolers. Based on the headspace vapour of analysis, the soil samples that exhibited the worst-case vapour readings were submitted to the analytical laboratory, along with a Chain of Custody Form for those samples; and
- One (1) QA/QC was conducted on a duplicate sample, for every 10 sample parameters measured in the field. Two (2) field duplicate soil sample was analyzed for select parameters of concern, generally including PHCs, VOCs, PAHs, OC Pesticides, and metal forming hydrides.

3.2.2 Groundwater Investigation

The groundwater investigation was designed to intercept the groundwater table located approximately between 1.8 and 2.9 m bgs, based in observations encountered at the time of the subsurface investigation (saturated conditions).

- Six (6) groundwater monitoring wells (MW24, MW27, MW29, MW30, MW31 and MW32) were installed to assess the potential impact on the groundwater;
- The well screens were placed at the bottom of the 1.5 m of the monitoring well depth, with a maximum depth of 2.9 m bgs;
- Development of each well, prior to sampling by the removal (purge) of at least three (3) times the volume of water contained in each well;
- Determination of the presence of non-aqueous phase liquid-free product and the static groundwater elevation at each well;
- Sampling of groundwater using conventional sampling methods (i.e. waterra tubing and foot valve, and eco-bailer) once each well recovered sufficiently;
- One (1) field duplicate sample was collected for QA/QC analysis; at least one (1) for each ten (10) samples collected for laboratory analysis of PHC, VOC, PAH, OC Pesticides, Metals and General Inorganics;
- Groundwater samples were placed in laboratory-prepared and pre-labelled jars and placed in coolers with pre-chilled ice packs for storage and transportation to the analytical laboratory, along with a Chain of Custody Form;
- Retention of a copy of the Chain of Custody Form once samples were submitted for analysis;
- Ensured the temperature of the samples submitted was below 4° C; and
- Chemical analysis of groundwater samples for contaminants of concern associated with specific APEC(s) identified by the Phase One ESA. Specifically, two (2) groundwater

samples and one (1) field duplicate groundwater sample was submitted for analysis PHC, VOC, PAH, OC Pesticides, Metals and General Inorganics. One (1) trip blank submitted for VOC analysis.

3.3 Phase One Site Conceptual Model

The PCAs on the Phase One Property and within Phase One Study Area identified through records review, interview, and Site reconnaissance are summarized in **Table 4 – Section 3.3** and incudes the actual groundwater flow direction as measured on-Site during the investigation, as presented in **Figure 5.**

Table 4 – Section 3.3: Phase One CSM – PCAS

Table 18: Summary of Conceptual Site Model – PCAs

APEC No.	O. Reg 153/04 Schedule D PCA	Direction from Phase One Property	Approximate Distance from Phase One Property (m)	Source Information	Remarks	APEC	Rationale
APEC 1	**PCA 30:** Importation of Fill Material of Unknown Quality	n/a	On-Site - throughout	Aerial Photographs, Site Visit.	According to available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.	On-Site – throughout	Potential impact on soil and groundwater
APEC 2	**PCA 40:** Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	n/a	On-Site – throughout	Aerial Photographs.	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	On-Site – throughout	Potential impact on soil and groundwater
APEC 3	**PCA 40:** Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Adjacent lands in each direction	Adjacent lands in each direction	Aerial Photographs.	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	On-Site _ throughout	Potential impact on soil and groundwater
APEC 4	**PCA 10:** Commercial Autobody Shop	East	2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site.	City Directories	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	Eastern extent of the Site, namely the eastern extent of 2775 and 2785 Palladium Drive	Potential impact on soil and groundwater

The potentially contaminating activities identified above have been evaluated by a qualified person to determine whether an area of potential environmental concern will transpose on the Phase One Property as a result of their presence within the Phase One Property or Phase One Study Area. The rationale for the exclusion of one or more PCAs may be the result of, but not limited to, the direction of site location in conjunction with proposed groundwater flow direction, distance from the site, results from previous environmental reports, etc.

The Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA are summarized in **Table 5 – Section 3.3** as follows:

PEC	Location	Comments	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	On-Site - throughout	According to available historical information and aerial photographs, it has been revealed that the Phase One property encountered significant earth moving activities in 2019 and 2021. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.	VOC PHC PAH Metals Inorganics	Soil and Groundwater
APEC 2	On-Site – throughout	Based on available aerial imagery, the Site has included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 3	On-Site – Throughout	Based on available aerial imagery, the surrounding lands within 300 m of the Site have included inferred agricultural operations since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.	Metals OC Pesticides	Soil and Groundwater
APEC 4	Eastern extent of the Site, namely the eastern extent of 2775 and 2785 Palladium Drive	The City directories retrieved revealed that an automobile body-repairing and painting facility has operated from between 2009/2010 through at least 2025.	VOC PHC Metals	Soil and Groundwater

Notes: PEC – Potentiel Environmental Concern
PHC – Petroleum Hydrocarbons
VOC – Volatile Organic Compound
PAH – Polycyclic Aromatics

Notes:
1 - Area of Potential Environmental Concern (APEC) means the area on, in, or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One ESA, including through:

(a) Identification of past or present uses on, in, or under the Phase One Property, and
(b) Identification of potentially contaminating activity.
2 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a Phase One Study Area

3 - When completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

4 - When submitting a record of site condition for filing, a copy of this table must be attached.

3.3.1 Physical Settings

Geological maps were reviewed to obtain information on regional geology and surficial soils. Surficial soil deposit mapping indicates that the subsurface overburden material on the Site consists of Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock mapping indicates that the overburden is underlain by the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part. According to available MECP water well records, bedrock is found to be between approximate 4.2 and 18.5 m below grade. As discussed in greater detail herein, inferred bedrock conditions were encountered in select boreholes advanced as part of this assessment, with practical auger refusal encountered at depths of approximately 3.6 m below grade.

According to the Natural Resources Canada interactive mapping system, *The Atlas of Canada – Toporama*, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west to northwest towards the unnamed water course.

3.3.2 Water Bodies and Areas of Natural Significance

There are no Areas of Natural Significance within the Phase One Study Area. No water body is identified within 30 m of the Site.

3.4 Deviations from Sampling and Analysis Plan

LRL generally did not deviate from the SOPs and forms outlined above. The location of the boreholes and monitoring wells in relation to the APECs are presented in **Figure 3** and **Figure 4**. Monitoring wells were used to assess the groundwater flow direction and the groundwater quality at each screened interval.

The collection of groundwater samples was performed the following day of purging, approximately within 24 hours as is required under the Ontario Regulation (O. Reg.) 153/04 (as amended).

Generally, no deviations occurred from the initial Sampling and Analysis Plan. It should be noted that four (4) of the groundwater monitoring wells encountered ‘dry’ conditions at the time of development and sampling, therefore, LRL could only collect groundwater samples from two (2) monitoring wells.

3.5 Impediments

Refusal over inferred bedrock, or dense subsurface conditions was encountered at shallower depths than initially anticipated, which resulted in the boreholes being terminated at lesser depths than the proposed 8.3 m below grade. Inferred groundwater conditions were encountered within the depths advanced, therefore, the interface of most concern (upper water zone) was intercepted therefore these conditions did not interfere with the over quality of the assessment and respective subsurface investigation.

Four (4) of the groundwater monitoring wells encountered ‘dry’ conditions at the time of development and sampling.

4 INVESTIGATION METHOD

4.1 General

The Phase Two ESA involved various field activities to investigate the quality of the soil and groundwater and was comprised of the following components.

- Retaining public and private utility locator companies;
- Retaining a certified (MECP licensed well drillers) contractor for drilling the boreholes and installing the monitoring wells;
- Supervision and documentation of borehole drilling and monitoring well installation field activities;
- Soil characterization and logging;
- Soil sample collection for chemical analysis;
- Well development;
- Determining the presence of any non-aqueous phase free product and water elevation monitoring; and
- Groundwater sample collection for chemical analysis.

4.2 The investigation method followed the analysis plan for soil shown in Drilling

Prior to conducting the subsurface investigation activities on the Site, LRL contacted a private utility marking contractors in the region, who were retained to locate both private and public utility positions on behalf of LRL.

From between March 31st and April 10th, 2025, and May 25th and May 26th, 2026, twenty-two (22) boreholes were drilled on the Site, to a maximum depth of between 4.2 and 8.3 m bgs or until refusal, which ever is encountered first between. Each of the boreholes were advanced using a truck mounted CME-55. These borehole locations are those presented in **Figure 4**. Six (6) boreholes were completed into monitoring wells. Stick-up protective well casings were installed to cover the monitoring wells throughout the Site.

4.2.1 Name of the Contractor

George Downing Estate Drilling (Hawkesbury, Ontario) are licensed environmental and geotechnical drillers and were commissioned to drill the twenty-two (22) boreholes and install the six (6) monitoring wells.

4.2.2 Description of the Equipment Used

All twenty-two (22) boreholes were drilled by use of a truck-mounted CME-55, equipped with 203 mm outside diameter rotary hollow stem augers and 0.6 m in length split spoon sampler. The boreholes that had monitoring wells installed were fitted with a 51 mm diameter PVC pipe and approximately 1.5 m of well screen. A solid PVC pipe riser extended from to ground surface from the screened segment. #2-graded silica sand was added within the annular space of the screened length to at least 0.3 m above the top of screen, followed by ¾” bentonite chips to seal the installation.

4.2.3 Description of Measures taken to Minimize Cross-Contamination

Sampling tools used to retrieve soil samples from the split spoon sampler, including the split spoon sampler itself, were cleaned with Liquinox solution and rinsed with de-ionized water. The dedicated gloves were changed after each sample to prevent cross-contamination. The used gloves were placed in garbage bags and removed from the Site at the end of the drilling program.

4.2.4 The Frequency of Sample Collection

Sampling intervals for the boreholes were continuously taken with a 0.6 m in length split spoon sampler from the ground surface to at most 8.3 m bgs.

4.3 Soil Sampling

4.3.1 Description of Equipment Used for Soil Collection

The soil is removed from the split spoon and placed by hand in pre-labelled, laboratory prepared jars and methanol-filled vials and in clear plastic bags. As a minimum, each spilt spoon retrieved would include one (1) representative sample, however, if various soil stratum materials are encountered in a retrieved spilt spoon, the individual materials are considered as separate samples and segregated from the other material. The sample nomenclature is generally as follows: BH26-XX-SSY

Where:

BH26-XX represents the borehole identification number; and

SSY represents the sample number.

Following field screening with a PID, samples were placed in appropriate laboratory-supplied, pre-labelled jars and methanol-filled vials (for VOCs and PHC F1 analysis) and placed directly into coolers with pre-chilled ice packs for storage and transportation to the accredited laboratory (Paracel Laboratories, Ottawa).

4.3.2 Geological Descriptions of Soil Samples

Exploratory Location BH/MW	Type	Geological Description	Depth Range (m bgs)	Soil Sample
BH1	Topsoil	200 mm	0.0 - 0.02	Included in SS1
	Sand and Silt	Trace clay, trace gravel sized stone, moist, grey, loose to compact. Terminated at 3.68 m bgs upon refusal over inferred bedrock.	0.02 – 3.68	SS1, SS2, SS3, SS4, SS5
BH2	Topsoil	200 mm	0.0 – 0.02	Included in SS1
	Fill Material	Silt-sand-clay, trace gravel, moist, brown, loose	0.02 – 1.45	SS1, SS2
	Sand and Sily	Trace	0.10 – 3.66	SS3, SS5
BH3	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Sandy Silt	Some clay, trace gravel sized stone, brown, moist, loose to compact. Terminated at 2.45 m bgs upon refusal over inferred bedrock.	0.01 – 2.45	SS1, SS2, SS3, SS4
BH4	Topsoil	175 mm	0.0 – 0.01	Included in SS1
	Silty Sand	Trace clay, trace gravel sized stone, brown, moist, loose to sense.	0.01 – 3.20	SS1, SS2, SS3, SS4, SS5
BH5	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Silty Sand	Some clay, brown, moist, loose to dense. Bedrock encountered at 3.20 m bgs.	0.01 – 3.20	SS1, SS2, SS3, SS4, SS5
BH7	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Fill Material	Silt-sand-clay, some gravel, brown, moist, loose to very dense.	0.01 – 1.45	SS1, SS2
	Sandy Silt	Some clay, some gravel sized stone, moist, compact.	1.45 – 3.66	SS3, SS4, SS5
BH9	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Fill Material	Sand-clay, some silt, some organics, brown, moist, very loose.	0.01 – 1.45	SS1, SS2
	Silty Clay	Some sand, some gravel sized stone, moist, soft to firm	1.45 – 2.89	SS3, SS4
	Silty Sand	Trace clay, some gravel sized stone, grey, wet, loose to dense. Bedrock encountered at 6.32 m bgs.	2.89 – 6.32	SS5, SS6, SS7
BH10	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Fill Material	Sand-clay, some silt, some organics, brown, moist, very loose.	0.01 – 2.21	SS1, SS2, SS3
	Silty Clay	Some sand, some gravel sized stone, moist, soft to firm.	2.21 – 3.66	SS4, SS5
BH11	Topsoil	450 mm	0.0 – 0.04	Included in SS1
	Sandy Silt	Some clay, some gravel sized stone, brown, moist, loose to compact.	0.04 – 3.66	SS1, SS2, SS3, SS4, SS5

Exploratory Location BH/MW	Type	Geological Description	Depth Range (m bgs)	Soil Sample
BH12	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Silty Clay	Some sand, some gravel sized stone at deeper depths, brownish grey, moist, soft to firm.	0.01 – 5.64	SS1, SS2, SS3, SS4, SS5, SS6
	Silty Sand	Brown, wet, compact to very dense. Terminated upon refusal over inferred bedrock at 8.32 m bgs.	5.64 – 8.32	SS7, SS8
BH14	Topsoil	50 mm	0.0 – 0.005	Included in SS1
	Fill Material	Sand, trace gravel, dry, very loose.	0.005 – 0.76	SS1
	Silty Clay	Trace sand, some gravel sized stone, brown, wet, soft to firm.	0.76 – 4.12	SS2, SS3, SS4, SS5
	Silty Sand	Trace clay, brown, wet, compact. Terminated upon refusal over inferred bedrock at a depth of 5.88 m bgs.	4.12 – 5.88	SS6
BH20	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Silty Clay	Some sand, grey, moist, firm to stiff.	0.01 - 4.24	SS1, SS2, SS3, SS4, SS5
BH23	Topsoil	150 mm	0.0 – 0.01	Included in SS1
	Silty Sand	Trace clay, brown, moist to wet, very loose to dense. Terminated upon refusal over inferred bedrock at a depth of 6.60 m bgs.	0.01 – 6.60	SS2, SS2, SS3, SS4, SS5, SS6, SS7
BH24	Clay	Brown, moist, loamy with traces of gravel and organics.	0.0 – 1.21	SS1, SS2
	Sily	Light brown, moist.	1.21 – 3.04	SS3, SS4, SS5
BH25	Loam	Browm, moist, clayey, traces of organics and gravel	0.0 – 0.61	SS1
	Clay	Silty, brown, moist, traces of gravel.	0.61 – 1.83	SS2, SS3
	Silt	Light-brown, saturated.	1.83 – 3.04	SS4, SS5
BH26	Loam	Brown, moist, clayey, traces of organics and gravel.	0.0 – 1.21	SS1, SS2
	Silt	Grey, moist, traces of gravel.	1.21 – 3.04	SS3, SS4, SS5
BH27	Loam	Brown, moist, clayey, traces of organics and gravel.	0.0 – 1.83	SS1, SS2, SS3
	Silt	Grey-brown, saturated	1.83 – 3.04	SS4, SS5

Exploratory Location BH/MW	Type	Geological Description	Depth Range (m bgs)	Soil Sample
BH28	Loam	Brown, moist, clayey, traces of organics and rock.	0.0 – 0.61	SS1
	Clay	Grey, moist, silty, traces of gravel.	0.61 – 1.83	SS2, SS3
	Silt	Grey, moist, clayey with traces of gravel.	1.83 – 3.04	SS4, SS5
BH29	Loam	Brown, moist, traces of organics and gravel.	0.0 – 2.43	SS1, SS2, SS3, SS4
	Silt	Clayey, grey, moist.	2.43 – 3.04	SS5
BH30	Loam	Brown, moist, silty, traces of organics and gravel.	0.0 – 0.61	SS1
	Clay	Brown, moist, silty, traces of gravel.	0.61 – 4.27	SS2, SS3, SS4, SS5, SS6, SS7
BH31	Loam	Brown, moist, clayey, traces of organics.	0.0 – 0.61	SS1
	Clay	Grey-brown, moist, silty	0.61 – 3.04	SS2, SS3, SS4, SS5
BH32	Loam	Brown, moist, silty, traces of organics.	0.0 – 1.21	SS1, SS2
	Clay	Grey, moist, silty.	1.21 – 3.04	SS3, SS4, SS5

4.4 Field Screening Measurements

Field screening of the soil involved the use of a PID to measure headspace concentrations of VOCs (as Isobutylene) in conjunction with visual and olfactory observations. This combination of field screening tools was used to determine the “worst-case” sample of the site and the selection of the samples for submission of VOC and PHC analysis.

4.4.1 PID Screening

Soil samples collected were screened for vapours using the RKI GX-6000 PID. The RKI GX-6000 was calibrated prior to use. Screening of VOC headspace concentrations were performed in accordance with LRL’s SOP for Field Measurement of Soil Screening Parameters.

VOC measurements were taken by collecting soil samples into dedicated plastic sampling bags and inserting into the bag while maintaining a tight seal around the probe. The samples were allowed to warm to room temperature prior to the collection of the measurements. The measurements that represent the highest value detected within the first 30 seconds of the field screening and measurements were documented into the field notes. Soil samples with the highest combustible vapours detected were then submitted for laboratory analysis, as discussed below.

4.4.2 Chemicals Detected and Associated Detection Limits

The monitoring program was performed using the RKI GX-6000 gas meter equipped with a low range PID sensor and configured to detect VOCs calibrated to isobutylene (IBL The RKI GX-6000 provides detection limit ranges between 0 – 100 ppm for VOCs.

4.4.3 Precision of the Measurements

Duplicate measurements were taken for one (1) in every ten (10) samples to assure the precision of the screening. Deviations greater than 30% of the initial reading indicated a non-reliable result due to random error. When a non-reliable result was encountered, the RKI GX-6000 PID was calibrated to zero in the fresh air and the corresponding sample was re-screened.

4.4.4 Procedure for Checking Calibration of Equipment

The RKI GX-6000 (PID) was calibrated by LRL staff with isobutylene calibration gas prior to use. The calibration of the RKI GX-6000 is verified by operating the unit in a fresh air environment and ensuring zero readings for all parameters measured.

4.5 Groundwater: Monitoring Well Installation

Six (6) of the twenty-two (22) boreholes advanced were completed into groundwater monitoring wells installed. The locations of the newly installed monitoring wells were determined to permit sampling the groundwater pertaining to APECs identified in the Phase One Environmental Site Assessment. No previously installed groundwater monitoring wells were uncovered as part of this investigation. Piezometers from previous geotechnical investigation activities were identified, however, the details with respect to their installation were not confirmed, therefore they could not be considered reliable sample points. No samples or measurements were collected from these piezometers.

A 51 mm screen interval, ranging between 1.5 m in length was placed at the base of the borehole with a PVC endcap at the extent of the screen. The screen was encompassed with #2-grade silica sand that extends approximately 0.3 m above the well screen. The well was then sealed with ¾ inch bentonite chips above the sand pack to approximately 10 cm bgs. The 51 mm PVC well riser completed the length of the well and a J-plug was installed at the top of the riser. The monitoring well was encased by a flush mount casing.

The locations of the monitoring wells are presented in **Figure 5**.

4.5.1 Name of the Contractor

George Downing Estate Drilling Ltd. (Hawkesbury, Ontario) was commissioned to drill the twenty-two (22) boreholes and install the six (6) groundwater monitoring wells.

4.5.2 Description of the Equipment

Each of the twenty-two (22) boreholes were advanced using a track-mounted CME-55, equipped with 203 mm outside diameter rotary hollow stem augers.

The monitoring wells were constructed using the following materials:

- Dedicated polyvinyl chloride (PVC) individually wrapped riser pipes and screens;
- 51 mm (2 inches) diameter Schedule 40 PVC pipe capped at the top;
- 51 mm (2 inches) diameter Schedule 40 No. 10-slot PVC screen with a screen length of between 1.5 and 3.0 m and capped at the base with a PVC slip cap;
- Sand pack to approximately 0.3 m above the top of the well screen;
- Bentonite seal to at least 0.3 m above the sand pack;
- A J-Plug was added to the top of each solid stem riser; and,

- Stick-up protective were installed to cover the monitoring wells on the asphalt and gravel surfaces.

4.5.3 Measures to Minimize Potential Cross-Contamination

There are dedicated Schedule 40 PVC pipes and screens encased in a plastic sleeve that is removed prior to installation. Once the monitoring wells were installed. Sterile dedicated tubing was placed in each monitoring for well development.

A dedicated sampling device consisting of a sampling tube and foot valve was used to collect develop the groundwater monitoring wells, and the groundwater samples were collected using a dedicated eco-bailer and sampling tube with foot valve. Samples collected to be analysed for metal-based parameters were field filtered using a dedicated 45 µm filter, supplied to LRL in individual sterile packaging. Sterile butyl nitrile gloves were changed for each well to ensure no cross-contamination during the sampling program.

Groundwater samples were placed directly into pre-labelled, laboratory-prepared sample containers and placed directly into a cooler.

4.5.4 Frequency of Sample Collection during Drilling

Groundwater samples were not collected during borehole drilling or monitoring well installation, but rather on May 29th, 2026, following the installation and development of the monitoring wells. Only one (1) groundwater sampling event was completed at the Site at the time this report was prepared.

At the time of the sampling event, only two (2) of the available groundwater monitoring wells has sufficient volumes available for the collection of a sample. This is discussed further below.

4.5.5 Monitoring Well Development

Prior to well development, the groundwater elevation at each monitoring well was established using a Solinst Oil/Water interface probe. The interface probe was used to assess the monitoring well for the presence of Light Non-Aqueous Phase Liquids (LNAPLs) and Dense Non-Aqueous Phase Liquids (DNAPLs). If a free product were present, the thickness of the free product would be measured and recorded, and the actual groundwater surface was corrected accordingly. The interface probe was thoroughly washed with de-ionized water and dried prior to use at a subsequent well.

Subsequent to the groundwater elevation survey, each well was developed by the removal of at least ten (10) times the volume of water (if possible) contained in each well using a pump system. The purged groundwater removed was collected in dedicated pails to inspect the removed water for visible identifiers or sheen. The amount of water removed from each well was recorded and is summarized in **Table 7 – Section 4.5.5** as follows.

Table 7 – Section 4.5.5: Monitoring Well Development

Monitoring Well	Groundwater Level (m bgs)	Depth of water column (m)	Required Purge Volume (L)	Date of Development/Purging	The volume of Fluid Removed from Well (L)
MW24	Dry	--	--	--	--
MW27	3.07	0.72	14.4	May 29th, 2026	15
MW29	Dry	--	--	--	--
MW30	Dry	--	--	--	--
MW31	Dry	--	--	--	--
MW32	2.71	1.12	22.4	May 29th, 2026	22

The majority of the monitoring wells encountered dry conditions, therefore samples could not be collected from four (4) of the six (6) groundwater monitoring wells. Both MW27 and MW32 encountered groundwater within the installations. Development of each resulted in purging each well dry three (3) times, which equated to the minimum ten (10) well volumes.

No olfactory or visual evidence of potential impairment were encountered, which included the no observations (i.e. odours, iridescent sheen, or free phase product) of PHC impacts.

4.6 Groundwater: Field Measurements of Water Quality Parameters

Groundwater sampling was conducted using conventional sampling methodology as described below:

- A dedicated eco-bailer was lowered slowly into the respective monitoring well, to a depth where the approximate central length of the bailer stratal the water table. The eco-bailer was removed from the well to fill the VOC bottles. The same technique was repeated multiple times to fill each bottle sufficiently. The VOC bottles were the initial bottles to fill;
- Using the dedicated waterra tubing and foot valve, the general inorganics, OC Pesticides, PHC and PAH bottles, were filled;
- Using the dedicated waterra tubing and foot valve, the respective metal-based parameter bottles were filled. A 45 µm filter was applied to the outlet of the sample train to allow for the metals sample to be filed filtered prior to being sealed in the sample bottles.

At the time of the groundwater monitoring well development, and sampling on May 29th, 2026, monitoring wells MW25 through MW26, and MW28 through MW31 were recorded to have limited groundwater available for development and sampling. The monitoring well was reported as having 'dry' conditions, or 'insufficient volume available' for a representative sample to be collected.

Table 8 – Section 4.6 below summarizes select steady-state water quality parameters measured at each well, prior to the collection of groundwater samples.

Table 8 – Section 4.6: Instrument Readings at Steady-State Conditions

Date	Location	Temp. °C	DO (mg/L)	Electrical Conductivity (mS/cm)	ORP (mV)	TDS (ppm)	pH
May 29th, 2026	MW27	9.9	--	1460	--	734	6.92
May 29th, 2026	MW32	10.3	--	1160	--	578	7.10

Following each use and prior to the commencement of the subsequent groundwater sample, the Hanna Instrument probe was flushed with de-ionized water and dried thoroughly.

4.7 Groundwater: Sampling

Groundwater samples were collected on May 29th, 2026, following the field measurements of the water quality parameters, in accordance with LRL's SOP for Groundwater Sampling. Groundwater samples were collected from the well as soon as there was sufficient groundwater in the well for sample collection. Groundwater samples were collected from MW27 and MW32.

The jars and vials were prepared in advance by the laboratory. The pre-labelled jars were filled in the field sealed when full, packaged in bubble wrap and placed into cooler with pre-chilled ice packs to maintain temperatures below 4 °C for storage and transportation. The chain of custody form was completed in the field and provided to the laboratory personnel at the time of delivery. A copy of the Chain of Custody was retained and is attached to the report in **Appendix B**.

4.8 Sediment: Sampling

The Phase Two Property did not contain a body of water as defined under Ontario Regulation 153/04 (as amended); therefore, sediment was not present in the investigation area, and no sediment sampling was conducted.

4.9 Analytical Testing

The soil and groundwater samples were submitted to Paracel Laboratories Ltd. (Ottawa, Ontario), analytical laboratories accredited by the Canadian Association for Laboratory Accreditation (CALA). The analyses were performed in compliance with the MECP Laboratory Services Branch, "*Protocol for Analytical Methods Used in the Assessment of Properties under Past XV.1 of the Environmental Protection Act of the Environmental Protection Act, July 1, 2011*".

One (1) field duplicate sample was collected for every ten (10) samples. The duplicate(s) were labelled as follows:

- The parent sample 24-SS2 had a duplicate collected, labelled as 24-SSX;
- The parent sample 25-SS2 had a duplicate collected, labelled as 25-SSX;
- The parent sample 27-SS5 had a duplicate collected, labelled as 27-SSX;
- The parent sample 29-SS2 had a duplicate collected, labelled as 29-SSX; and
- The parent sample 32-SS3 had a duplicate collected, labelled as 32-SSX.

Duplicate samples mentioned above were only collected at the time of the May 2026 subsurface investigation. No duplicate samples were collected from the April 2025 investigation. Twenty (20) soil samples were submitted from the May 2026 subsurface investigation, and two (2) duplicate samples, which accounts for 10% of the samples submitted for laboratory analysis.

One (1) duplicate groundwater sample was collected from MW32. The duplicate sample was identified as MWX.

The location and identity of the duplicate samples submitted were not provided to the laboratory.

The required RDLs for all parameters were met and there are no RDLs that exceed the applicable site condition standard.

4.10 Residue Management Procedures

4.10.1 Soil Cuttings – Drilling

Soil cuttings removed from the drill augers were used to backfill the respective borehole locations, or in areas where a monitoring well was installed, the material was placed in the vicinity of the hole. As no visual evidence of soil impairment was encountered across the Site, it was considered acceptable to store the soil cuttings in this fashion. During the proposed development, it is understood that the majority of the overburden will be excavated to accommodate the proposed Site features and infrastructure which will require the disposal of the material in accordance with applicable provincial regulations (namely O. Reg. 406/19).

4.10.2 Water from Well Development and Purging

Water generated from the well development and the purging of the wells maintained on the Site. The groundwater encountered at the Site did not exhibit any visual or olfactory evidence of chemical impact, sheen, or NAPLs.

4.11 Elevation Surveying

An elevation survey was carried out using a Spectra Precision, Self-Leveling Laser Level. The results of the elevation survey are summarized on the borehole logs included in **Appendix A**, and in the included **Figure 5**. The elevation survey was tied to a geodetic benchmark previously established during the initial design phase for this project, established at the top of the fire hydrant spindle, located to the east of the Site along Palladium Drive. The benchmark has a known elevation of 109.04 m above mean sea level.

4.12 Quality Assurance and Quality Control Measures

For Quality Assurance and Quality Control Measures (QA/QC), one (1) sample was collected as a duplicate sample for every ten (10) sample parameters collected in the field for soil and groundwater. Duplicate samples mentioned above were only collected at the time of the May 2026 subsurface investigation. No duplicate samples were collected from the previous April 2025 investigation. Twenty (20) soil samples were submitted from the May 2026 subsurface investigation, and two (2) duplicate samples, which accounts for 10% of the samples submitted for laboratory analysis.

The analysis of QA/QC for both the soil and groundwater were within appropriate range of analytical results with the duplicates taken in the field.

The relative percent difference (RPD) values were calculated. VOC parameters were not detected in the parent samples, and the respective duplicate soil samples collected, therefore considered reliable results. PHC parameters (namely PHC F3 and PHC F4) detected in the parent soil samples, and respective duplicate samples were found have variances of between 34% and 80%. Sample 29-SS2 had calculated RPD's of between 34% and 38% which are marginally above the 30% limit, therefore these samples can be considered reliable. The parent sample, and respective duplicate sample from 32-SS3 had elevated RPD's of between 22% and 80%. This is likely the result of a non-homogenous sample representation. No other parameters analysed in the soil samples submitted included a duplicate sample.

VOC and PHC parameters were generally not detected in the groundwater samples collected, specifically the sample from MW32 and the duplicate sample, MWX. Acetone was detected in the parent sample with a value of 33.0 µg/L, and in the respective duplicate sample of 34.3 µg/L. This represents a RPD of approximately 4%, withing the acceptable range. PAH parameters were also generally not detected in the parent groundwater sample collected, however select parameters were detected in the duplicate. The RPD is above the acceptable limit and may attributed to by potential sediment concentrations variances in the samples due to low groundwater volumes available. The metal-based parameters RPD are below 20%, which is considered within the acceptable range.
Based on the values returned, the samples and associated sampling techniques are generally considered reliable.

4.12.1 Laboratory Supplied Sample Containers and Shipment Procedures

Table 9 – Section 4.12.1 below provides a detailed description of the sample containers, preservation, labelling, handling, and custody for the samples submitted.

Table 9 – Section.12.1: Sampling Parameters and Containers

Parameter	Sample Container	Preservative	Handling & Custody Samples
Soil Samples			
Metals, PHCs (F2 - F4), PAHs, General Inorganics.	Clear Glass Teflon lined lids	None	Soil samples were collected from the split-spoon sampler by hand, or directly from the auger cutting where surficial frozen conditions were encountered. Samples taken for laboratory analysis were placed in pre-prepared and labelled laboratory-supplied sample containers, observing the laboratory requirements for specific sample volumes according to the testing required. The soil samples collected for laboratory analysis were immediately placed into a cooler with pre-chilled ice packs for storage and transportation to the laboratory. On arrival, all samples were removed from the cooler and immediately refrigerated pending final chemical analysis sample selection. Selected samples for laboratory analysis were placed in a cooler with pre-chilled ice-packs and dispatched to the accredited chemical laboratory under Chain of Custody procedures.
VOCs, PHC (F1)	Vial	Methanol	

Parameter	Sample Container	Preservative	Handling & Custody Samples
			Excess soil from the split spoon samples, not placed into the laboratory supplied jars was transferred to a sealable plastic bags for field screening of combustible soil vapours.
Parameter	**Sample Container**	**Preservative**	**Handling & Custody Samples**
Groundwater Samples			
PHCs (F2 - F4).	Amber Glass Bottle	HCL	Groundwater samples were collected using a dedicated waterra tubing. Groundwater samples and dispensed directly into the appropriate pre-labelled, laboratory-supplied groundwater sample containers. The collected groundwater samples were immediately placed into ice-filled cool boxes for storage and transportation to the laboratory. On arrival at the laboratory, all samples were removed from the ice-filled cooler box and immediately refrigerated pending final chemical analysis sample selection. Selected samples for laboratory analyses were placed in ice-filled cool boxes and dispatched to the accredited chemical laboratory under Chain of Custody procedures.
VOCs, PHC (F1)	Vials	NaHSO4	
Cyanide	Plastic	NaOH	
General Inorganics	Plastic	No Preservative	
Metals by ICP	Plastic	NaOH	
CrVi	Amber Glass Bottle	HCL	
Mercury	Amber Glass Bottle	HCL	
PAH	Amber Glass Bottle	No preservatives	

Soil samples were collected using dedicated prepared 250 ml jars, syringes, and vials provided by Paracel Laboratories Ltd. (Ottawa, Ontario). Soil samples that required VOC analysis involved placing approximately 5 g of soil into dedicated methanol- filled vials. This method was used to ensure no loss of VOCs during transportation. The samples were placed in a cooler containing pre-chilled ice packs to maintain a suitable temperature of the samples.

4.12.1 Description of Equipment Cleaning Procedures

Split spoon core samples of soil were obtained during the drilling was collected via a 0.60 m in length split- spoon sampler. The split-spoon samplers were washed and scrubbed with Liquinox mixed in water and rinsed between each use to prevent cross-contamination on re-use.

Soil samples were collected from the split-spoon sampler or auger, by hand (using dedicated nitrile gloves that were disposed of after each sample), to mitigate cross-contamination. If necessary, soil samples contained in the split-spoon sampler were removed with the aid of a stainless-steel trowel. Subsequent to soil sample collection, each split-spoon sampler and any other hand-tool used for sample collection were immediately cleaned in accordance with LRL's SOP, as follows:

- Scrubbed with a wire brush in an Liquinox solution; and
- Rinsed with distilled or de-ionized water.

The soil samples were placed directly into pre-labelled jars specific to the chemical analysis desired. The location of each sampling point is recorded, and the pre-labelled jars were placed in coolers and packed with ice. The remaining sample after classification were placed in a sealable plastic bag for further field screening by means of PID for vapour headspace measurements.

4.12.2 Description of Field Quality Control Measures

Soil samples including duplicates were placed into laboratory-provided bottles and vials that were clearly labelled with the sample location, date, and chemical analysis to be conducted on each sample jar. The same labelling was applied to the chain of custody forms. Dedicated nitrile gloves were used for each sample collected in the field and disposed of immediately after use.

VOC samples were collected in methanol vials filled by the laboratory and an exact amount of VOC impacted soil was added to the vials by means of a syringe that captures 5 mL of soil to be added to the vials. The vial caps are tightly sealed and placed directly in a bubble cap package and placed upright into a cooler packed with pre-chilled ice packs. Sample screening by means of a PID, olfactory evidence, discoloration, soil characteristics, and texture were used to determine which samples were to be submitted for further analysis.

Samples for analysis of metals parameters were placed into dedicated bottles prepared by the laboratory sealed with a Teflon-lined cap. The jars were filled to the brim and capped tightly to minimize the vapour headspace in the jar. These jars were placed in bubble wrap containers and placed into a cooler packed with ice. The selection of the samples for analysis was based on the field screening method outlined in LRL's SOPs.

Groundwater samples, including duplicates, were placed into laboratory prepared (with appropriate preservatives) and supplied bottles and vials. The vials and jars were filled to the brim to minimize VOC loss.

The following packaging and transportation procedures were followed:

- Correctly labelled samples were packed in coolers with pre-chilled ice packs to maintain temperatures below 4°C during sample collection and transportation from the Phase Two Property to the laboratory and the chemical testing to Paracel Laboratories Inc.; and
- A copy of the chain of custody form was maintained.

4.12.3 Deviations from the Quality Assurance and Quality Control Program

There were no deviations from the Quality Assurance and Quality Control Program.

5 REVIEW AND EVALUATION

5.1 Geology

According to available provincial mapping, regional surficial geology is characterized as Offshore Marine Deposits: clay, silty clay, and silt, commonly calcareous and fossiliferous, locally overlain by thin sand. Bedrock geology in the area consists primarily of the Ottawa Formation which consists of limestone with some shaly partings: some sandstone in basal part.

5.1.1 Geological Conditions Encountered

22 boreholes were advanced across the Site. The general subsurface stratigraphy soil encountered in the boreholes consisted of between approximately 100 and 400 mm of topsoil, generally described as sandy with black organic materials, followed by either fill material, sand and silt to sand silt, silty sand of silty clay. More specifically, the boreholes advanced at the southern portion of the Site, BH1, BH2 and BH3 encountered sand and silt to sandy silty to depths of between 2.4 and 3.6 m where the boreholes were terminated upon refusal over inferred bedrock, or as per the scope of this project. Approximately 0.9 m of fill material, described as silty sand clay with trace gravel, was encountered in BH2, underlying the topsoil material.

Generally, the boreholes advanced across the central portion of the Site, including BH-5, BH-7, BH-9, BH-10 and BH-11, encountered fill material described as silt sand clay with some gravel, to depths of between 1.4 and 2.2 m below grade, followed by sandy silt, silty sand or silty clay to depths of between 3.6 and 6.3 m where bedrock was encountered, or where the borehole was terminated. BH5 and BH11 did not encounter fill material, but rather silty sand or sandy silt to depths of 3.2 and 3.6 m below grade, respectively, where bedrock was encountered.

The final four (4) boreholes advanced at the northern extent of the Site generally encountered silty clay followed by silty sand to refusal over bedrock. More specifically, boreholes BH12 encountered silty clay to a depth of 5.64 m below grade, followed by silty sand to 8.32 m, where refusal was encountered over bedrock. BH14 encountered a thin layer of fill material to 0.76 m below grade, followed by silty clay to 4.12 m, over silty sand to 5.88 m at which depth bedrock was encountered. BH20 was terminated at a depth of 4.24 m below grade and encountered silty clay conditions throughout. BH23 uncovered silty sand to a depth of 6.60 m, at which depth bedrock was encountered.

BH24 through BH32 encountered generally comparable conditions, with loam or clay conditions over silt.

No sheen or evidence of Light Non-Aqueous (LNAPL) and Dense Non-Aqueous Phase Liquid (DNAPL) as free product was observed in any of the monitoring wells. Olfactory evidence of hydrocarbon odours was not detected in any of the water removed from newly installed monitoring wells.

The groundwater monitoring wells were positioned to identify potential groundwater impacts associated with the PCAs and APECs identified on the Site. Groundwater contours and inferred groundwater flow direction are presented in **Figure 6.** Based on the elevation encountered, the groundwater flow direction in the overburden across the Site is towards the southwest.

5.1.2 Elevations Geodetic Benchmark

An elevation survey was carried out using a Spectra Precision, Self-Leveling Laser Level. The results of the elevation survey are summarized on the borehole logs included in **Appendix A**, and in the included **Figure 5**. The elevation survey was tied to a geodetic benchmark previously established during the initial design phase for this project, established at the top of the fire hydrant spindle, located to the east of the Site along Palladium Drive. The benchmark has a known elevation of 109.04 m above mean sea level.

5.1.3 Aquifer & Aquitard Properties

The soil stratigraphy indicated that the overburden was primarily comprised of sand and silt to sand silt, silty sand of silty clay. The monitoring wells were installed to a depth between 3.0 m and 4.2 m bgs. Four (4) of the six (6) monitoring wells exhibited dry conditions at the time of the well

development and sampling on May 29th, 2026. The two (2) remaining monitoring wells, MW27 and MW32, had groundwater levels of approximately 1.78 and 2.13 m bgs.

5.1.4 Rationale for the Choice of Aquifer

There is only one (1) overburden aquifer on-Site. The overburden aquifer was the only aquifer investigated as it lies directly below the Site. Since none of the COC were encountered based on the on-Site PCAs and APECs in the aquifer that was above the SCS, further vertical delineation of the aquifer was not warranted. If any of the COC had been encountered above the SCS, then deeper monitoring wells would have been required.

5.1.5 Confirmatory Soil and Groundwater Monitoring Well Design and Rationale

Monitoring Well/ Borehole	Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase Two Property	Potentially Contaminating Activity[2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Groundwater, soil, and/or sediment)
BH1, BH3, BH4, BH5, BH7, BH9, BH10, BH11, BH12, BH14, BH20, BH23, BH24, BH25, BH26, BH27, BH28, BH29, MW30, MW31, MW32	APEC 1	On-Site, throughout	PCA 30: Importation of Fill Material of Uknown Quality.	On Site	VOC, PHC, PAH, Metals, Inorganics	Soil and Groundwater
BH1, BH3, BH4, BH5, BH7, BH9, BH10, BH11, BH12, BH14, BH20, BH23, BH24, BH25, BH26, BH27, BH28,BH29, MW30,MW31, MW32	APEC2	On-Site, throughout	PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	Metals OC Pesticides	Soil and Groundwater
BH1, BH3, BH5, BH9, BH11, BH12, BH20, BH23, BH24, BH25, BH26, BH27, BH28,BH29, MW30, MW31, MW32	APEC3	Adjacent properties in each direction.	PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	Metals OC Pesticides	Soil and Groundwater
BH20, BH22, BH23, MW30, MW31	APEC 4	Eastern extent of 2775 and 2785 Palladium Drive	PCA 10: Commercial Autobody Shop	Off-Site	VOC, PHC, Metals	Soil and Groundwater

5.2 Groundwater Elevations

The direction of groundwater flow has been determined to be mainly towards the south-west. **Figure 5** shows the groundwater flow direction based on the data collected at the time of this assessment.

5.2.1 Discussion and Rationale for Location and Screen Intervals

The wells were placed generally so that the triangulation of the groundwater elevations could be conducted to determine the groundwater flow direction. The 1.5 m screen was used to straddle the groundwater table for the interception of LNAPLs and the potential of free phase and dissolved fractions of DNAPLs, as well as providing sufficient area for placement of a proper bentonite seal.

5.2.2 Interphase Probe

No LNAPLs or DNAPLs were detected with the interphase Probe during the measuring of water levels before and after well development. All monitoring wells were developed via waterra tube and foot valve.

5.2.3 Product Thickness

No measurable free product or iridescent sheen was encountered.

5.3 Groundwater: Hydraulic Gradient

5.3.1 Horizontal Hydraulic Gradient

Hydraulic gradients were as follows:

Table 14 – Section 6.3.1: Hydraulic Gradient

Parameter	Hydraulic Gradient (m/m)	Remarks
Maximum	0.0024	Between MW27 and MW32
Minimum	0.0024	Between MW27 and MW32
Average	0.0024	

5.3.2 Vertical Hydraulic Gradient

The vertical hydraulic gradient was not established for the subject Site at the time of this assessment as only one (1) aquifer was encountered.

If the shallow aquifer or Aquitard is found to be contaminated. Deeper wells will be required to delineate the groundwater at deeper depth in case there is more than one (1) aquifer or aquitard on-Site.

5.4 Fine-Medium Soil Texture

Under Ontario Regulation 153/04 (as amended). “coarse-textured soil” is soil that contains more than 50 percent by pass of particles that are 75 micrometers (um) or larger in mean diameter. The more stringent coarse-grained soil analysis was applied to this Site.

For the purposes of this assessment, the more stringent coarse-textured soil criteria was applied, with no formal analytical breakdown of the grain size of the subsurface soils.

5.4.1 Rationale for the Use of Fine – Medium Soil Texture

Not applicable.

5.4.2 Results of the Grain Size Analysis for Fine – Medium Soil Texture

Not applicable

5.4.3 Rationale for the Number of Samples Collected and Analysed for Grain Size Analysis

Not applicable

5.5 Soil: Field Screening

The samples were examined in the field for lithology as well as for aesthetic evidence of impacts (i.e., debris, staining, and odours). In addition, headspace readings were recorded using a photo-ionization detector (PID) calibrated to hexane (HEX) and isobutylene (IBL). This combination of field screening tools was used to determine the “worst-case” sample(s) collected from the subject Site.

5.6 Soil Quality

The Phase One ESA Conceptual Site Model identified the following Contaminants of Concern in the soil in relation to the PCAs and four (4) APECs that may affect the Phase Two Property.

- Polycyclic Aromatic Hydrocarbons (PAHs);
- Metals;
- General Inorganics;
- Volatile Organic Compounds (VOC); and
- Petroleum Hydrocarbons – F1 through F4.

Between April 8th and April 11th, 2025, and on May 28th, 2026, a total of 23 and 22 soil samples, respectively, including two (2) duplicate samples, were submitted to evaluate the level of potential chemical impact on the soils beneath the Site. These samples were those collected from the borehole advancement completed between March 31st and April 7th, 2025, and between May25th and May 26th, 2026. All soil samples met the MECP Table 3 Standards ICC for coarse-grained soils in non-potable groundwater conditions.

5.6.1 Location, Depth of Sampling

The following table describes the location and depth of the specific samples submitted for chemical laboratory analysis, and the results of the analyses in comparison to MECP Table 3 ICC.

Table 16 – Section 5.6.1: Soil Chemical Laboratory Analysis

Borehole ID	Sample ID	Depth (m bgs)	Date Sampled	Chemical Analysis						Standard Exceedance (Table 3 ICC for coarse soils)
				PHC F2 – F4	VOCs/F1	PAHs	OC Pesticides	General Inorganics	Metals	
BH1	SS1	0.0 – 0.6	April 4, 2025	✓	✓			✓	✓	No Exceedances
	SS2	0.6 – 1.2				✓	✓			No Exceedances
BH2	SS1	0.0 – 0.6	April 7, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2						✓	✓	No Exceedances
BH3	SS1	0.0 – 0.6	April 3, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2				✓		✓	✓	No Exceedances
BH5	SS1	0.0 – 0.6	April 4, 2025	✓	✓			✓	✓	No Exceedances
	SS2	0.6 – 1.2					✓			No Exceedances
BH7	SS1	0.0 – 0.6	April 7, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2					✓	✓	✓	No Exceedances
BH9	SS1	0.0 – 0.6	April 3, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2				✓		✓	✓	No Exceedances
BH10	SS1	0.0 – 0.6	April 7, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2					✓	✓	✓	No Exceedances
BH11	SS1	0.0 – 0.6	April 7, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2						✓	✓	No Exceedances
BH12	SS1	0.0 – 0.6	April 7, 2025	✓	✓					No Exceedances
	SS2	0.6 – 1.2				✓		✓	✓	No Exceedances
BH14	SS1	0.0 – 0.6	April 3, 2025	✓						No Exceedances
	SS2	0.6 – 1.2				✓	✓	✓	✓	No Exceedances
BH20	SS1	0.0 – 0.6	April 10, 2025	✓	✓	✓				No Exceedances
	SS2	0.6 – 1.2						✓	✓	No Exceedances
BH23	SS1	0.0 – 0.6	April 8, 2025	✓						No Exceedances
BH24	SS1	0.0 – 0.6	May 26, 2026				✓	✓	✓	No Exceedances
	SS2	0.6 – 1.2		✓	✓	✓				No Exceedances
BH25	SS1	0.0 – 0.6	May 25, 2026				✓	✓	✓	No Exceedances
	SS2	0.6 – 1.2		✓	✓	✓				No Exceedances
BH26	SS1	0.0 – 0.6	May 25, 2026			✓	✓			No Exceedances
	SS2	0.6 – 1.2		✓	✓			✓	✓	No Exceedances
BH27	SS1	0.0 – 0.6	May 26, 2026				✓	✓	✓	No Exceedances
	SS2	0.6 – 1.2		✓	✓					No Exceedances
	SS3	1.2 – 1.8				✓				No Exceedances
BH28	SS1	0.0 – 0.6	May 26, 2026				✓	✓	✓	No Exceedances
	SS2	0.6 – 1.2		✓	✓	✓				No Exceedances
BH29	SS1	0.0 – 0.6	May 26, 2026				✓	✓	✓	No Exceedances
	SS2	0.6 – 1.2		✓	✓					No Exceedances
	SSX	0.6 – 1.2		✓	✓					No Exceedances
	SS3	1.2 – 1.8				✓				No Exceedances
BH30	SS4	1.8 – 2.4	May 25, 2026	✓	✓					No Exceedances
	SS5	2.4 – 3.0				✓			✓	No Exceedances
BH31	SS3	1.2 – 1.8	May 25, 2026	✓	✓					No Exceedances
	SS4	1.8 – 2.4				✓		✓	✓	No Exceedances
BH32	SS3	1.2 – 1.8	May 25, 2026	✓	✓					No Exceedances
	SSX	1.2 – 1.8		✓	✓					No Exceedances
	SS4	1.8 – 2.4				✓			✓	No Exceedances

Notes

XXX	Duplicate sample collected and submitted for laboratory analysis
XXX	Exceedances to the applicable Table 3 site condition standards

The Laboratory Certificates of Analysis are presented in **Appendix B** and the soil analytical results are presented in **Table 2** through **Table 4**, included at the end of this report. Based on the analysis, the parameters analysed were reported below the respected O. Reg. 153/04 site condition standards.

5.6.2 Analytical Results to SCS

The environmental quality of the soil at the Site was compared to the MECP Table 3 ICC Standard. The Laboratory Certificate of Analysis is presented in **Appendix B**.

5.6.3 Contaminants of Concern (COC)

The contaminants of concern identified in the soil on the property, although no exceedances to the O. Reg. 153/04 site condition standards, included the following:

- PHCs, namely PHC F2 through F4.
- PHCs, including PHC F2 through PHC F4;
- PAHs, including Fluoranthene and Pyrene; and
- Various Metals and General Inorganics.

5.6.4 Chemical and Biological Transformations

No chemical or biological transformations were noted on, in or under the Phase Two Property.

5.6.5 Source of Contaminant Mass Contributing to the Groundwater

The soil on Site was found to meet the respective criteria for petroleum-based parameters, including select VOCs, PHCs as well as PAHs, although detections were encountered. The likely sources of these contaminates are the previous earth moving activities, and suspected importation of fill to the Site, based on the general shallow depth encountered.

Select metals and general inorganic parameters were also detected, although no exceedances were encountered.

OC Pesticides were not detected in any of the soil samples submitted for this analysis.

5.7 Ground Water Quality

The Phase One ESA Conceptual Site Model identified the following Contaminants of Concern in relation to the PCAs and APECs that may affect the Phase Two Property.

Between May 25th and May 26th, 2026, an attempt to samples the six (6) groundwater monitoring wells was made. Due to dry conditions encountered in all but two (2) groundwater monitoring wells, samples could not be collected from MW24, MW29, MW30, and MW31. Samples were collected from MW27 and MW32. One (1) field duplicate groundwater sample was also collected from MW32. The samples were analyzed for the following parameters, to appropriately evaluate the level of chemical impact to the groundwater beneath the Phase Two Property in the areas of the various APECs, and where groundwater conditions supported the collection of samples:

- Four (4) samples for VOCs;
- Three (3) samples for PHC fractions F1 to F4;
- Three (3) samples for PAHs;
- Three (3) samples for OC Pesticides; and

- Three (3) samples for metals (including mercury and CrVi) and inorganics.

5.7.1 Location and Sample Depth

Table 17 – Section 5.7.1 below described the location and depth of the specific groundwater samples submitted for chemical laboratory analysis, and the results of the analyses in comparison to Table 3 site condition standards for coarse-grained soils.

Table 17 – Section 5.7.1: Groundwater Chemical Laboratory Analysis

Well ID	Sample ID	Depth (m asl)	Date Sampled	Chemical Analysis						Standard Exceedance (Table 3 ICC for coarse grained)
				PHCs F2 - F4	VOCs/F1	PAHs	Metals (ICP, Hg, CrVi)	Inorganics	OC Pesticides	
MW27	MW27	104.47	May 27th, 2026	✓	✓	✓	✓	✓	✓	No Exceedances
MW32	MW32	104.54	May 27th, 2026	✓	✓	✓	✓	✓	✓	No Exceedances
Duplicate of MW32	MWX	--	May 27th, 2026	✓	✓	✓	✓	✓	✓	No Exceedances

Notes

XXX	Duplicate sample collected and submitted for laboratory analysis
XXX	Exceedances to the applicable Table 3 site condition standards

The Laboratory Certificates of Analysis are presented in **Appendix B** and detailed assessments of the groundwater analytical results are presented in **Table 6** through **Table 9**, included at the end of this report. The environmental quality of the groundwater at the Phase Two Property was compared to the MECP Table 3 Standards for non-potable groundwater. Each of the groundwater samples collected meets the Table 3 site condition standards, as identified above in **Table 17 – Section 5.7.1**.

Select parameters analysed were detected, however the concentrations were well below the applicable site condition standards. Acetone was detected in samples collected from MW27 and MW32 with values of 9.5 and 33.0 µg/L, respectively, below the 130000 µg/L Table 3 site condition standard. Acetone was also detected in the duplicate sample collected (MWX, duplicate of MW32), with a value of 34.3 µg/L, below the corresponding Table 3 site condition standards. No additional VOC parameters were detected in groundwater samples collected.

Trans-1,2-Dichloroethylene was detected in the Trip Blank sample with a value of 1.0 µg/L. Contaminates of concern should not be detected in the trip blank sample which presents a moderate concern with respect to the over all integrity of the sample collection, transportation and handling. However, trans-1,2-Dichloroethylene was not detected in the groundwater samples collected, therefore the interference which was encountered in the Trip Blank does not appear to have influenced the remaining groundwater samples collected.

PAH parameters were not detected in the sample collected from MW32. Select PAH parameters were detected in the respective duplicate sample, MWX, which included Fluorene, Phenanthrene and Pyrene. Concentrations of PAHs in the duplicate sample were below the respective Table 3 site condition standards. Comparably, PAH parameters were also detected in the groundwater sample collected from MW27, with detections encountered for the following parameters:

- Anthracene with a value of 0.01 µg/L, below the Table 3 site condition standard of 2.4 µg/L;
- Benzo[a]anthracene with a value of 0.05 µg/L, below the Table 3 site condition standard of 4.7 µg/L;
- Benzo[a]pyrene with a value of 0.06 µg/L, below the Table 3 site condition standard of 0.81 µg/L;
- Benzo[b]fluoranthene with a value of 0.11 µg/L, below the Table 3 site condition standard of 0.75 µg/L;
- Chrysene with a value of 0.07 µg/L, below the Table 3 site condition standard of 1 µg/L;
- Fluoranthene with a value of 0.10 µg/L, below the Table 3 site condition standard of 130 µg/L;
- Phenanthrene with a value of 0.08 µg/L, below the Table 3 site condition standard of 580 µg/L; and
- Pyrene with a value of 0.08 µg/L, below the Table 3 site condition standard of 68 µg/L.

No exceedances to the respective Table 3 site condition standards were encountered for PAH parameters.

Metal-based parameters were detected in each of the groundwater samples collected. No exceedances to the applicable Table 3 site condition standards were detected.

General inorganic analysed, including pH, chloride and free cyanide were reported with concentrations in accordance with the applicable site condition standards. Free cyanide was below the respective detection limits in each of the samples collected, and chloride ranged between values of 8 and 17 mg/L, below the Table 3 site condition standard of 2300 mg/L. pH values suggests generally neutral groundwater conditions with levels of between 6.8 and 7.0 pH units.

OC Pesticides were not detected in the samples collected and submitted for laboratory analysis.

5.7.2 Documentation of Field Filtering

Field Filtering was conducted for metals only. The Certificates of Analysis show no lab filtering for the samples submitted for this Site.

5.7.3 Analytical Results to SCS

The environmental quality of the groundwater at the Phase Two Property was compared to the MECP Table 3 ICC Standard.

The Laboratory Certificate of Analysis is presented in **Appendix B.**

5.7.4 Contaminants of Concern (COC)

No contaminants of concern were identified in the groundwater on the property, in excess of the appliable site condition standards.

5.7.5 Chemical and Biological Transformation

There are no chemical or biological transformations noted in the groundwater for the COC.

5.7.6 Soil Serves as Source of Contamination to Groundwater

The soil is permeable and may contribute to the quality of the groundwater.

5.7.7 Presence of LNAPLs or DNAPLs

No free phase products were encountered in the groundwater.

5.8 Sediment Quality

The Phase Two Property did not include a surface water body as defined under O. Reg. 153/04 (as amended); therefore, sediment was not sampled in this Phase Two ESA investigation.

5.9 Quality Assurance and Quality Control Results

Duplicate soil and groundwater samples were collected and submitted for chemical laboratory analyses for QA/QC purposes. The samples collected in the field were placed in the cooler and subsequently submitted for analysis.

5.10 Phase Two Conceptual Site Model

Table 18 – Section 5.10 below describes the duplicate samples collected and tested during soil and groundwater sampling as part of the field investigation of the Phase Two ESA.

Parameter	Soil		Groundwater		
	No. of Samples Tested	No. of Duplicates	No. of Samples Tested	No. of Duplicates	No. of Trip Blank
PHC (F1-F4)	21	2	2	1	-
VOC (incl. BTEX)	20	2	2	1	1
PAH	14	-	2	1	-
Metals	21	-	2	1	-
Inorganics	17	-	2	1	-
OC Pesticides	10	-	2	1	-

Section 3. (3).5 of Schedule E of O. Reg. 153/04 (as amended) requires at least one (1) field duplicate be collected and analyzed for every ten (10) sample parameters submitted for laboratory analysis.

Samples were transported in coolers stocked with pre-chilled ice packs to ensure temperatures were maintained below 4°C, along with a Chain of Custody to Paracel Laboratories. Paracel performed the chemical analysis in compliance with the MECP “Laboratory Services Branch, Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act”, as amended. No discrepancies were noted as samples were properly handled with regards to the following:

- Holding Time;
- Preservation Method;
- Storage requirement; and
- Container Type.

The Laboratory Certificates of Analysis for each samples were received and are presented in **Appendix B**. All certificates of analysis received pursuant to clause 47 (2) (b) of the regulation comply with subsection 47 (3) of O. Reg. 153/04 as amended.

The Qualified Person concluded that the data met the quality objective, and the decision-making was not affected. The Qualified Person has also concluded that the overall objectives of the investigation and assessment were met.

Duplicate samples were taken for Soil and Groundwater. The following formula was used to assess the various duplicates against their respective soil or groundwater samples.

Duplicate RPD = {([sample] – [sample duplicate])/([sample] + [sample duplicate])/2} x 100. The values calculated must fall in the Following Ranges shown on **Table 19 – Section 5.9.**

Most of the parameters met their respective RPD values with some exceptions. The soil is not homogenous and values greater than the listed RPD values were expected. Re-sampling was not conducted because the exceedances for the RPD values were small relative to the number of samples analyzed.

Table 19 – Section 5.9: Duplicate RPD Values in Less Than ≤

Parameter	Groundwater RPD Limit	Groundwater Duplicate	Soil RPD Limit	Soil Duplicate
PAH	≤30%	≤0.5%	NA	NA
VOC	≤30%	≤0%	≤40%	≤1%
PHC	≤30%	≤0.1%	≤40%	≤0.5%
Free CN	≤20%	≤0%	≤35%	≤0%

5.11 Phase Two Conceptual Site Model

The Phase Two Property is located at 2775 & 2785 Palladium Drive; and Block 244 Plan 4M1687 in Ottawa, Ontario. The properties are legally described as Blocks 243, Block 251 and Block 244, Plan 4M1687, City of Ottawa according to Service Ontario. the Site is comprised of three (3) individual parcels of land, each with the following configuration:

- Block 244 Plan 4M1687 has an irregular rectangular shape being between approximately 120 and 130 m wide (east – west), and between approximately 150 and 155 m in length (north – south) with the southwestern corner of the parcel being slightly encroached into the lot, for a total surface area of approximately 19,925 m^2 (1.99 ha);
- 2775 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,600 m2 (1.66 ha); and

- 2785 Palladium Drive has a rectangular shape being approximately 230 m wide (east – west), by approximately 70 m in length (north – south) for a total surface area of approximately 16,588 m^2 (1.66 ha).

The size and location of the property are shown in **Figure 2**.

The Site is set within a high-density commercial and residential area of the City of Ottawa and is presently un-developed. Although the Site is not presently developed with infrastructure or services, the neighbouring lands are serviced by municipal sanitary and water distribution supply.

A review of topographic maps from Natural Resource Canada indicates that topography of the area generally slopes to the northeast. The Site is relatively flat with an elevation of approximately 106 m amsl. According to the Natural Resources Canada interactive mapping system, The Atlas of Canada – Toporama, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west to northwest towards the unnamed water course.

The Conceptual Site Model shows one (1) PCA on the property. Although additional potential contaminating activities were identified within 300 m radius from the Site. Some of which due to their down- or trans-gradient direction from the Site with respect to the inferred northeastern groundwater flow direction, or the type materials or activities, they do not present a potential risk for environmental concern to the Site. The PCA's identified result in four (4) APECs, as follows:

- **APEC 1** was generated due to the presence of **PCA 30: Importation of Fill Material of Unknown Quality** which is associated with significant earth moving activities identified in the 2019 and 2021 aerial photographs of the Site. Fill material was observed across the ground surface of the Site at the time of the May 8th, 2026, Site visit.
- **APEC 2** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications**, which is associated with the agricultural operations occurring on the Site since at least the late 1880's through to the mid 2000's. Such operations may have included the application of pesticides across the Site.
- **APEC 3** was generated due to the presence of **PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications,** associated with adjacent land operations as agricultural lands based on available aerial photographs retrieved. Such operations may have included the application of pesticides across the neighbouring lands.
- **APEC 4** was generated due to the presence of **PCA 10: Commercial Autobody Shop**, located at 2500 Palladium Drive, approximately 60 m east (up-gradient) of the Site, the city directories retrieved revealed that an automobile body-repairing and painting facility has

The location of these APECs is shown in **Figure 3**.

The Ministry of the Environment, Conservation, and Parks (MECP) "Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition" (Table 3 Site Condition Standards) for Industrial/Commercial/Community property use was considered the applicable Site Condition Standard (SCS) for the Phase Two Property and have been used to assess the chemical quality of the soil and groundwater samples obtained from the Phase Two Property. The soil and groundwater were analyzed for PHCs F1 to F4 Fractions, VOCs, PAHs, OC Pesticides, Metals and Inorganics.

The parameters selected were to address the Contaminants of Potential Concern (COPC) from the Potentially Contaminating Activities (PCA) and the Areas of Potential Environmental Concern (APECs) identified in the Phase One ESA.

The CSM is based on the soil and groundwater results from 22 boreholes and six (6) monitoring wells. The approximate locations of each borehole and monitoring well are defined in **Figure 4**.

6 CONCLUSIONS

Groundwater samples collected from the recently installed, and developed groundwater monitoring wells MW27 and MW32, as well as the respective duplicate sample, were found to have various parameters of concern detected, although no exceedances to the applicable site condition standards were encountered. Various VOCs, PAHs and metal-based parameters were detected, with concentrations below the respective Table 3 site condition standards. The remaining groundwater monitoring well constructed across the Site as part of this investigation encountered dry conditions at the time of the corresponding monitoring well development and groundwater sampling event.

Soil samples submitted for laboratory analysis reported detected concentrations at select locations, for limited contaminates of concern. No exceedances were encountered to the applicable Table 3 site condition standards.

Based on our findings and supported through the laboratory chemical analysis of soil and groundwater samples collected from across the Site, the identified four (4) APECs do not appear to have impaired the conditions of the Site in concentrations which render the material unsuitable to remain on the property, or such which would warrant remedial efforts.

According to the Natural Resources Canada interactive mapping system, The Atlas of Canada – Toporama, an area identified as a wetland is located approximately 200 m south of the Site. Additionally, an unnamed water course located between approximately 30 and 170 m west to northwest of the Site, which is a tributary to the Carp River located approximately 1.5 km north of the Site. The inferred groundwater flow direction is west towards the unnamed water course. Water levels collected from the appliable groundwater monitoring wells confirmed this inferred groundwater flow direction.

The findings presented in this report may be used by the Client. No further environmental work is considered warranted to confirm the conditions of the Site with respect to the identified potential contaminating activities. No environmental remediation is considered required. Consideration during construction to off-Site handling and disposal of excess soils should be as such outlined in Ontario Regulation 406/19.

7 RECOMMENDATIONS

The findings presented in this report may be used by the Client. No further environmental work is considered warranted to confirm the conditions of the Site with respect to the identified potential contaminating activities. No environmental remediation is considered required. Consideration during construction to off-Site handling and disposal of excess soils should be as such outlined in Ontario Regulation 406/19.

During the proposed construction activities, should dewatering be required, a formal EASR should be filled with the MECP prior to initializing the work. Contaminated groundwater, including elevated concentrations of sediment, if encountered, must be treated prior to release across the Site, or into City services, otherwise, removal is to be done by a licensed hauler.

Soils which exceed the respective O. Reg. 406/19 standards are not suitable for re-use and must be disposed of at a licensed landfill site if being excavated.

Groundwater monitoring wells no longer required must be decommissioned in accordance with O. Reg. 903.

8 LIMITATIONS AND USE OF REPORT

Results of this Phase Two ESA should not be considered a warranty that the subject property is free from any and all contaminants from former and current practices, other than those noted in this report, nor that all compliance issues have been addressed.

Findings contained in this report are based on data and information collected during the Phase Two ESA of the subject property conducted by LRL Engineering. Conclusions and recommendations are based solely on-site conditions encountered at the time of our site visit and fieldwork between March 31st and April 10th, 2025, and May 25th and May 27th, 2026, supplemented by historical information and data obtained as described in this report. No assurance is made regarding changes in conditions subsequent to the time of this investigation. If additional information is discovered or obtained, LRL Engineering should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required.

In evaluating the subject property, LRL Engineering has relied in good faith on information provided by individuals as noted in this report. We assume that the information provided is factual and accurate. We accept no responsibility for any deficiencies, misstatements or inaccuracies contained in this report as a result of omissions, misinterpretation or fraudulent acts of the persons contacted.

This report is intended for the sole use of Palladium Resort Development Limited Partnership and their authorized agents. LRL Engineering will not be responsible for any use of the information contained within this report by any third party.

In addition, LRL Engineering will not be responsible for the real or perceived decrease in the property value, its saleability or ability to gain financing, through the reporting of factual information.

Yours truly,
LRL Engineering

Jessica Arthurs
Director of Environmental Services

John (Gianni) Lametti, P. Eng. QPESA
Senior Environmental Engineer

W:\FILES 2024\240720\04 Environmental\02 PhaseIIESA\05 Reports\2026 Phase Two ESA\LRL240720.REPORT.PhaseTwoEnvironmentalSiteAssessment.PalladiumDriveVer03.docx

9 REFERENCES

Canadian Standards Association, Phase II Environmental Site Assessment CAN/CSA-Z769-00, March 2000 (R2022).

Canadian Standards Association, Z768-01 Phase I Environmental Site Assessment, November 2001 (R2022).

Ministry of Environment, Conservations and Parks, Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Environmental Protection Act, as amended.

Ministry of the Environment, Guide for Completing Phase II Environmental Site Assessments Under Ontario Regulation 153/04, June 2011.

Ontario Ministry of the Environment, *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*, 1996.

Ontario Ministry of the Environment, *Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, April 15, 2011.

Ontario Regulation 903, made under the Water Resources Act of the Environmental Protection Act, *Wells*, R.R.O. 1990.

Ontario Well Records Map accessed through: https://www.ontario.ca/environment-and-energy/map-well-records

FIGURES

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PROJECT

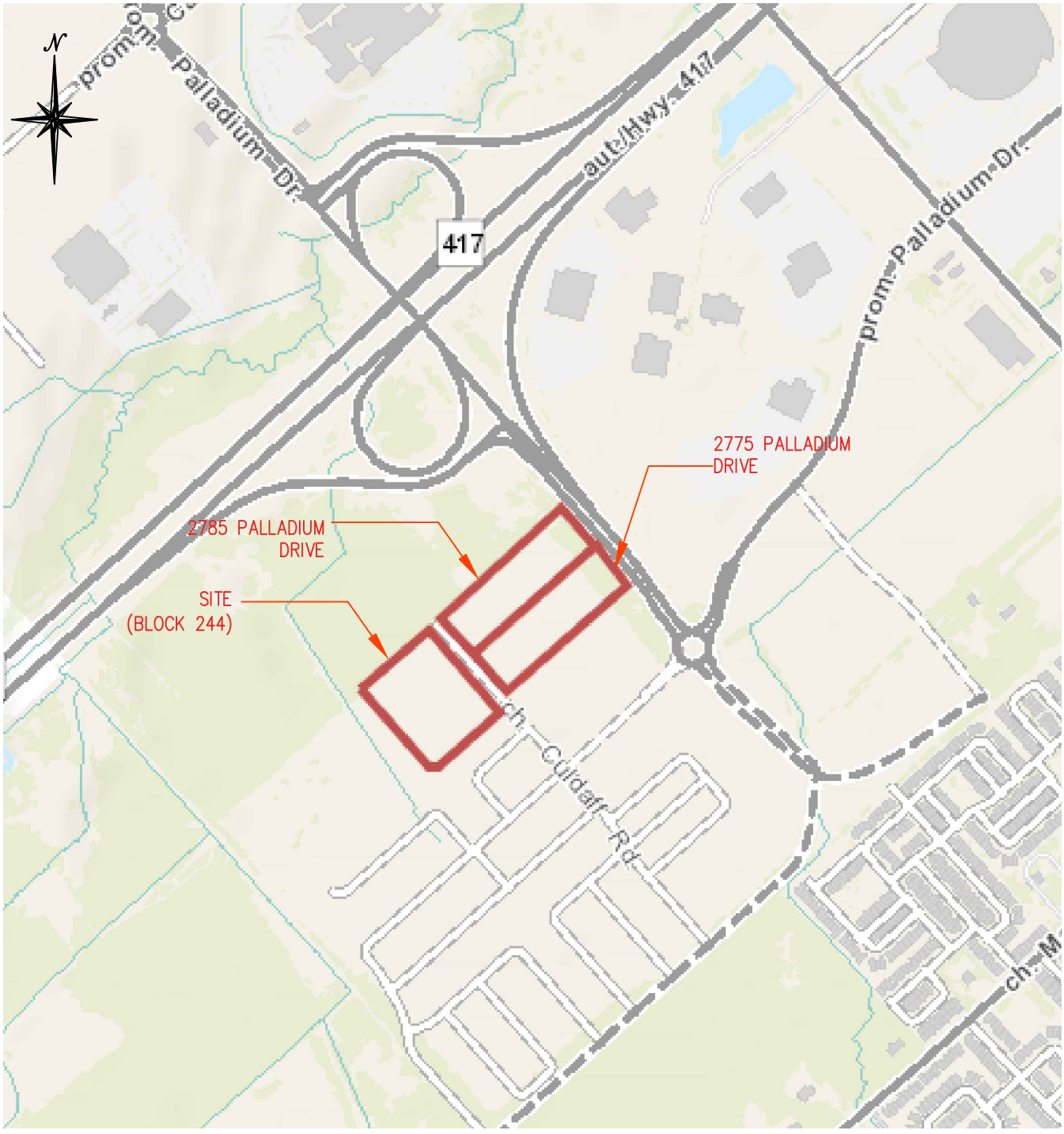
PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT
2775 & 2785 PALLADIUM DRIVE,
AND BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE

SITE LOCATION
SOURCE: GEOOTTAWA

CLIENT	DATE	PROJECT
PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP	JUNE 2026	240720

FIGURE 1



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OTTAWA, ONTARIO

DRAWING TITLE

SITE PLAN
SOURCE: GEOOTTAWA - 2022 AERIAL IMAGE

CLIENT	DATE	PROJECT
PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP	JUNE 2026	240720

FIGURE 2

LEGEND

Subject Site Property Line

100m 50 0 100 200m

SCALE: 1:6000

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AND BLOCK 244 PLAN 4M1687
OTTAWA, ONTARIO

DRAWING TITLE

PHASE ONE CONCEPTUAL SITE MODEL
(AREAS OF POTENTIAL ENVIRONMENTAL CONCERN)

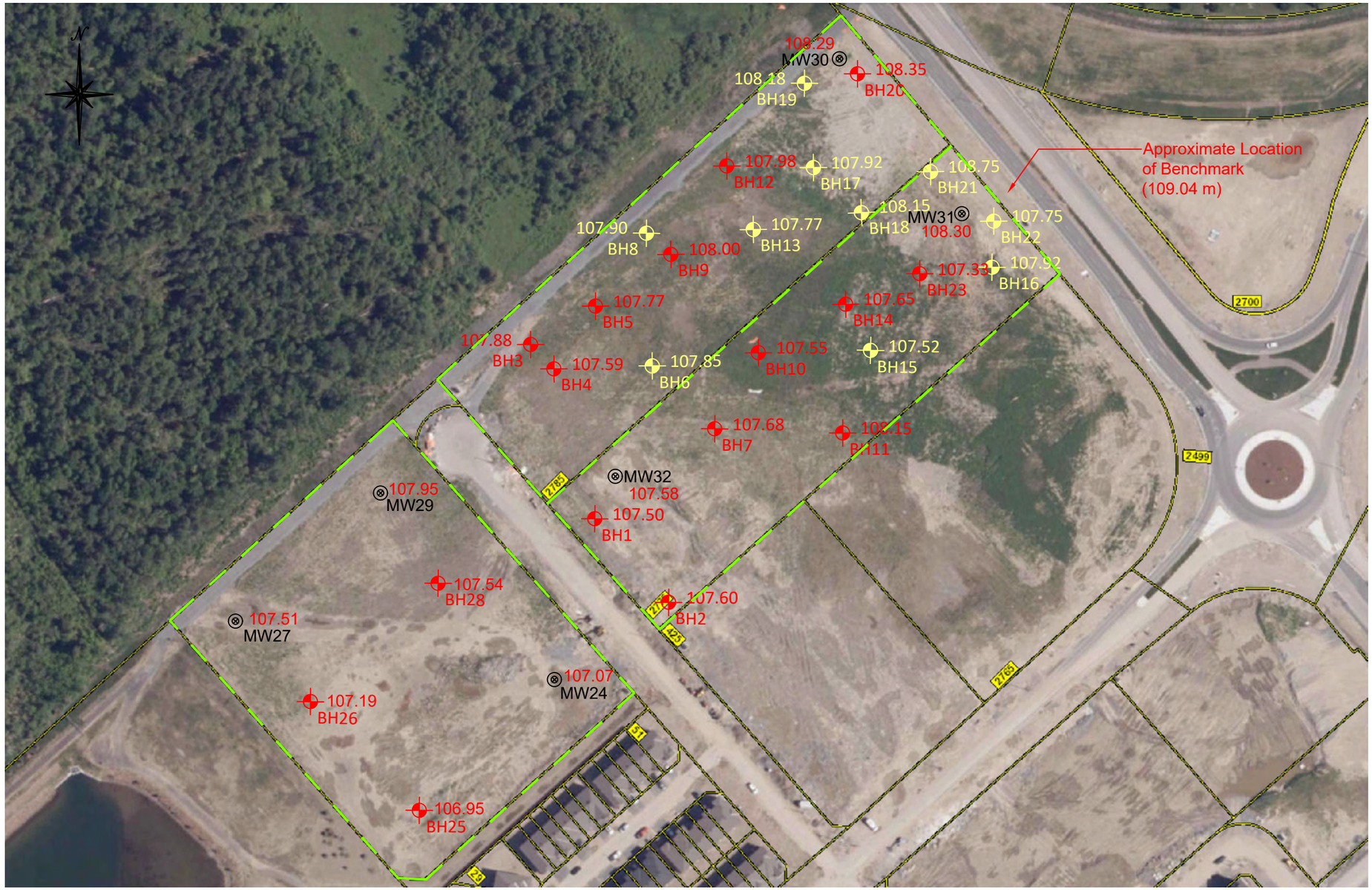
CLIENT	DATE	PROJECT	
PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP	JUNE 2026	240720	FIGURE3

LEGEND

- APEC 1: PCA 30: Importation of Fill Material of Unknown Quality
- APEC 2: PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications.
- APEC 3: PCA 40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications.
- APEC 4: PCA 10: Commercial Autobody Shop.
- Subject Site Property Line

100m 50 0 100 200m

SCALE: 1:6000



LEGEND

- (XXX) BHXX — Phase Two Environmental Site Assessment Borehole (Groundsurface Elevation)
- (XXX) BHXX — Previous Geotechnical Borehole (Groundsurface Elevation)
- (XXX) MWXX — Groundwater Monitoring Well (Groundsurface Elevation)
- Property Line

150m 75 0 150 300m

SCALE: 1:7500

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	JA	09/06/26

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JA	JA	JL

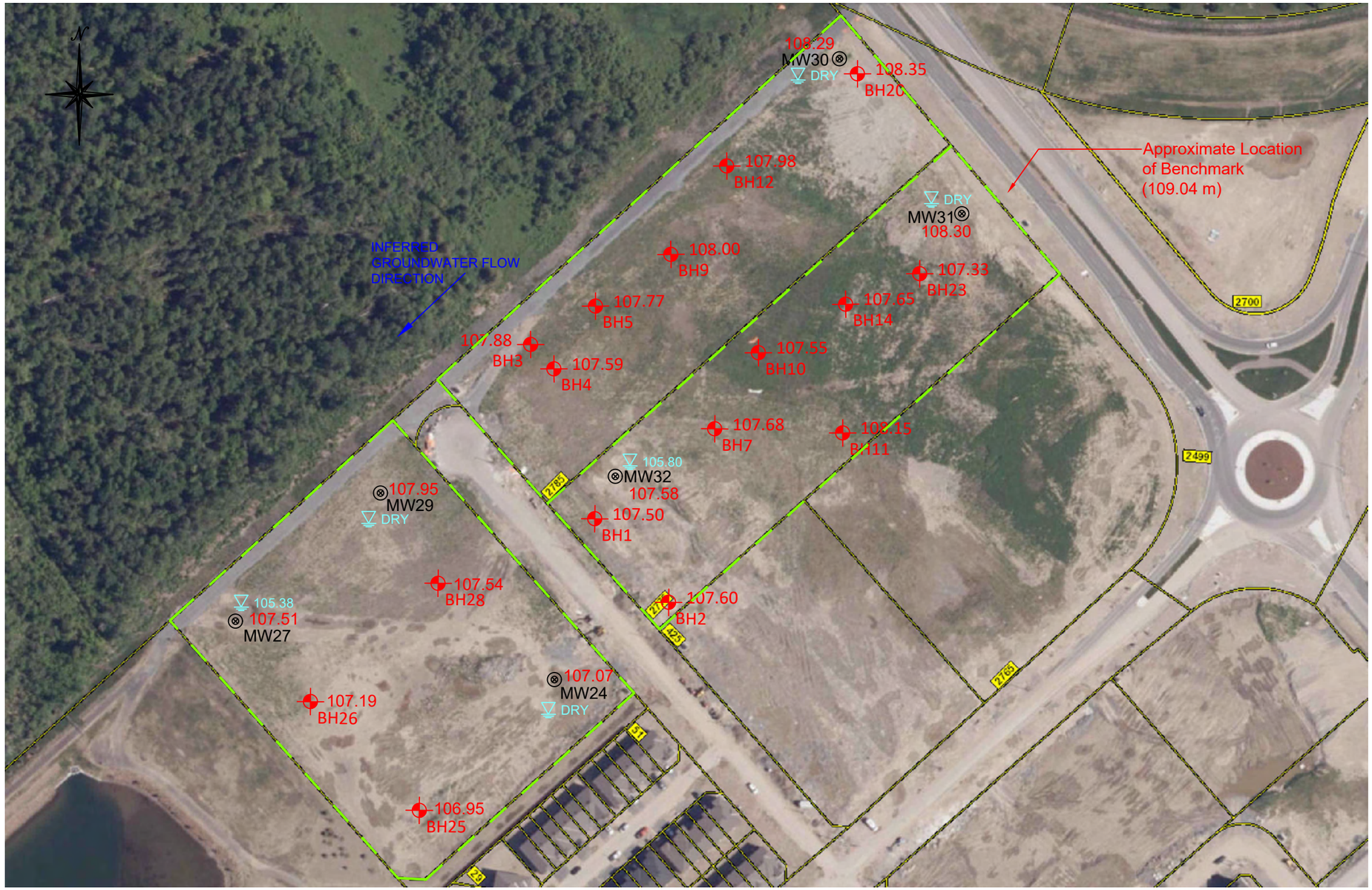
PROJECT
PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775, 2785 PALLADIUM DRIVE &
BLOCK 244 PLAN 4M1687
OTTAWA , ONTARIO

DRAWING TITLE
BOREHOLE AND GROUNDWATER MONITORING WELL LOCATIONS

PROJECT NO.
240720

DATE
JUNE 2026

FIGURE4



LEGEND

(XXX) BHXX	Phase Two Environmental Site Assessment Borehole (Groundsurface Elevation)
(XXX) MWXX	Groundwater Monitoring Well (Groundsurface Elevation)
	Property Line
XXX	Groundwater Elevation

150m 75 0 150 300m

SCALE: 1:7500

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	JA	09/06/26

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DRAWING TITLE
GROUNDWATER ELEVATIONS AND GROUNDWATER CONTOURS

PROJECT NO.
240720

DATE
JUNE 2026

FIGURE5

LEGEND

- (XXX) BHXX — Phase Two Environmental Site Assessment Borehole (Groundsurface Elevation)
- (XXX) BHXX — Previous Geotechnical Borehole (Groundsurface Elevation)
- (XXX) MWXX — Groundwater Monitoring Well (Groundsurface Elevation)
- Property Line
- XXX — Groundwater Elevation
- Groundwater Sample Collected - Meets the Site Condition Standard
- Groundwater Sample Collected - Exceeds Site Condition Standard

150m 75 0 150 300m

SCALE: 1:7500

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	JA	09/06/26

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DRAWING TITLE
GROUNDWATER EXCEEDANCES
(PHC, VOC AND PAH)

PROJECT NO.
240720

DATE
JUNE 2026

FIGURE7

LEGEND

- (XXX) BHXX — Phase Two Environmental Site Assessment Borehole (Groundsurface Elevation)
- (XXX) BHXX — Previous Geotechnical Borehole (Groundsurface Elevation)
- (XXX) MWXX — Groundwater Monitoring Well (Groundsurface Elevation)
- Property Line
- XXX — Groundwater Elevation
- Groundwater Sample Collected - Meets the Site Condition Standard
- Groundwater Sample Collected - Exceeds Site Condition Standard

150m 75 0 150 300m

SCALE: 1:7500

No.	REVISIONS	BY	DATE
01	ISSUED FOR REVIEW	JA	09/06/26

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PROJECT
PHASE ONE
ENVIRONMENTAL SITE ASSESSMENT
2775, 2785 PALLADIUM DRIVE &
BLOCK 244 PLAN 4M1687
OTTAWA , ONTARIO

DRAWING TITLE
GROUNDWATER EXCEEDANCES (METALS, INORGANICS AND OC PESTICIDES)

PROJECT NO. 240720

DATE JUNE 2026

FIGURE8

TABLES

Table 1
Summary of Groundsurface and Groundwater Elevations (May 29, 2026)
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Monitoring Well	Ground Surface Elevation[1] (m)	Reference Elevation[2] (m)	Depth To Water Table (m)		Groundwater Elevation (m)
			Reference Point	Ground Surface	
BH/MW24	107.07	108.04	DRY	--	--
BH/MW27	107.51	108.45	3.07	2.13	105.38
BH/MW29	107.95	108.90	DRY	--	--
BH/MW30	108.29	109.17	DRY	--	--
BH/MW31	108.30	109.32	DRY	--	--
BH/MW32	107.58	108.51	2.71	1.78	105.80

NOTES

[1] Elevations measured from arbritry benchmark established at the top of the fire hydrant spindle, located along Palladium Drive, across from the Site (109.04 m).

[2] Reference elevation is top of PVC riser.

Table 2
Summary of Soil VOC and PHC Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Industrial/Commercial/Community Property Use Coarse textured soil	Sample																				
				BH1-SS1	2-SS1	2-SS2	BH3-SS1	BH3-SS2	BH4-SS1	BH4-SS2	BH5-SS1	BH5-SS2	7-SS1	7-SS2	BH9-SS1	BH9-SS2	11-SS1	11-SS2	12-SS1	12-SS2	BH14-SS1	BH14-SS2	BH20-SS1	BH20-SS2	BH23-SS1
Sample Date (d/m/y)			--	04/04/2025	07/04/2025	07/04/2025	04/04/2025	04/04/2025	04/03/2025	04/03/2025	04/03/2025	04/03/2025	07/04/2025	07/04/2025	03/04/2025	03/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	04/10/2025	04/10/2025	04/08/2025
Depth	m		--	0.0 - 0.6	0.0 - 0.3	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.0 - 0.3	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.0 - 0.3	0.8 - 1.4	0.0 - 0.3	0.8 - 1.4	0.0 - 0.3	0.8 - 1.4	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6
CSV Readings[3]	ppm	0.1	--	<0.1	--	--	--	--	<0.1	<0.1	--	--	--	--	--	--	--	--	--	--	--	--	<0.1	<0.1	<0.1
Physical Characteristics																									
% Solids	% by wt.	0.1	--	78.5	84.0	88.8	84.6	84.8	74.1	73.9	83.0	81.5	82.1	83.3	78.5	78.5	81.0	79.4	76.8	80.4	83.4	83.9	81.2	81.1	81.8
>0.075 mm	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<0.075 mm	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Texture	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Inorganics																									
SAR		0.01	12	--	--	0.10	--	0.50	--	0.41	0.13	--	--	0.23	--	0.012	--	0.48	--	0.31	--	0.62	0.29	0.51	--
Conductivity	uS/cm	5	1400	--	--	202	--	278	--	291	246	--	--	239	--	206	--	240	--	231	--	292	242	323	--
Cyanide, free	ug/g dry	0.03	0.051	--	--	<0.03	--	<0.03	--	<0.03	<0.03	--	--	<0.03	--	<0.03	--	<0.03	--	<0.03	--	<0.03	<0.03	<0.03	--
pH	pH Units	0.05	5.0 - 8.5	--	--	7.53	--	6.96	--	7.32	7.21	--	--	7.32	--	7.27	--	7.05	--	7.47	--	6.79	7.41	7.51	--
Volatiles																									
Acetone	ug/g dry	0.50	28	<0.50	--	--	<0.50	--	--	--	<0.50	--	--	--	<0.50	--	--	--	--	--	--	--	<0.50	--	--
Benzene	ug/g dry	0.02	0.4	<0.02	<0.02	--	<0.02	--	--	--	<0.02	--	<0.02	--	<0.02	--	<0.02	--	<0.02	--	<0.02	--	<0.02	--	<0.02
Bromodichloromethane	ug/g dry	0.05	1.9	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Bromoform	ug/g dry	0.05	1.7	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Bromomethane	ug/g dry	0.05	0.05	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Carbon Tetrachloride	ug/g dry	0.05	0.71	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Chlorobenzene	ug/g dry	0.05	2.7	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Chloroform	ug/g dry	0.05	0.18	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Dibromochloromethane	ug/g dry	0.05	2.9	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Dichlorodifluoromethane	ug/g dry	0.05	25	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,2-Dichlorobenzene	ug/g dry	0.05	1.7	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,3-Dichlorobenzene	ug/g dry	0.05	12	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,4-Dichlorobenzene	ug/g dry	0.05	0.57	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,1-Dichloroethane	ug/g dry	0.05	0.6	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,2-Dichloroethane	ug/g dry	0.05	0.05	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,1-Dichloroethylene	ug/g dry	0.05	0.48	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
cis-1,2-Dichloroethylene	ug/g dry	0.05	2.5	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
trans-1,2-Dichloroethylene	ug/g dry	0.05	2.5	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,2-Dichloropropane	ug/g dry	0.05	0.68	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
cis-1,3-Dichloropropylene	ug/g dry	0.05		<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
trans-1,3-Dichloropropylene	ug/g dry	0.05		<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,3-Dichloropropene, total	ug/g dry	0.05	0.081	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Ethylbenzene	ug/g dry	0.05	1.6	<0.05	<0.05	--	<0.05	--	--	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05
Ethylene dibromide (dibromoethane, 1,2-)	ug/g dry	0.05	0.05	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Hexane	ug/g dry	0.05	88	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Methyl Ethyl Ketone (2-Butanone)	ug/g dry	0.50	88	<0.50	--	--	<0.50	--	--	--	<0.50	--	--	--	<0.50	--	--	--	--	--	--	--	<0.50	--	--
Methyl Isobutyl Ketone	ug/g dry	0.50	210	<0.50	--	--	<0.50	--	--	--	<0.50	--	--	--	<0.50	--	--	--	--	--	--	--	<0.50	--	--
Methyl tert-butyl ether	ug/g dry	0.05	2.3	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Methylene Chloride	ug/g dry	0.05	2	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Styrene	ug/g dry	0.05	43	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,1,1,2-Tetrachloroethane	ug/g dry	0.05	0.11	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,1,2,2-Tetrachloroethane	ug/g dry	0.05	0.094	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Tetrachloroethylene	ug/g dry	0.05	2.5	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Toluene	ug/g dry	0.05	9	<0.05	<0.05	--	<0.05	--	--	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05
1,1,1-Trichloroethane	ug/g dry	0.05	12	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
1,1,2-Trichloroethane	ug/g dry	0.05	0.11	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Trichloroethylene	ug/g dry	0.05	0.61	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Trichlorofluoromethane	ug/g dry	0.05	5.8	<0.05	--	--	<0.05	--	--	--	<0.05	--	--	--	<0.05	--	--	--	--	--	--	--	<0.05	--	--
Vinyl Chloride	ug/g dry	0.02	0.25	<0.02	--	--	<0.02	--	--	--	<0.02	--	--	--	<0.02	--	--	--	--	--	--	--	<0.02	--	--
m/p-Xylene	ug/g dry	0.05		<0.05	<0.05	--	<0.05	--	--	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05
o-Xylene	ug/g dry	0.05		<0.05	<0.05	--	<0.05	--	--	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05
Xylenes, total	ug/g dry	0.05	30	<0.05	<0.05	--	<0.05	--	--	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05
Hydrocarbons																									
F1 PHCs (C6-C10)	ug/g dry	7	65	<7	<7	--	<7	--	<7	--	<7	--	<7	--	<7	--	<7	--	<7	--	<7	--	<7	--	<7
F2 PHCs (C10-C16)	ug/g dry	4	250	<4	<4	--	<4	--	<4	--	<4	--	<4	--	<4	--	<4	--	<4	--	<4	--	<4	--	<4
F3 PHCs (C16-C34)	ug/g dry	8	2500	29	12	--	38	--	12	--	27	--	14	--	16	--	12	--	20	--	<8	--	18	--	10
F4 PHCs (C34-C50)	ug/g dry	6	6600	41	20	--	43	--	25	--	38	--	21	--	23	--	17	--	33	--	<6	--	20	--	14

NOTES:

[1] *MECPs Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*

[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.

[3] Combustible soil vapour concentrations measured with a RKI GX 6000 Photoionization Detector

MDL Method Detection Limit

-- No Value/Not Analysed

PHC Petroleum Hydrocarbon

Table 2 (Continued)
Summary of Soil VOC and PHC Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Industrial/Commercial/Community Property Use Coarse textured soil	Sample 24-SS1	24-SS2	25-SS1	25-SS2	26-SS2	27-SS1	27-SS2	28-SS1	28-SS2	29-SS1	29-SS2	29-SSX *(Duplicate of 29-SS2)*	30-SS4	31-SS3	32-SS3	32-SSX *(Duplicate of 32-SS3)*
Sample Date (d/m/y)			--	26/05/2026	26/05/2026	25/05/2026	25/05/2026	25/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026	25/05/2026	25/05/2026	25/05/2026	25/05/2026
Depth	m		--	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2	1.8 - 2.4	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8
CSV Readings[3]	ppm	0.1	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Physical Characteristics																			
% Solids	% by wt.	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
>0.075 mm	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<0.075 mm	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Texture	%	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
General Inorganics																			
SAR		0.01	12	0.12	--	0.18	--	0.09	0.15	--	0.42	--	0.19	--	--	--	--	--	--
Conductivity	uS/cm	5	1400	244	--	208	--	209	176	--	665	--	232	--	--	--	--	--	--
Cyanide, free	ug/g dry	0.03	0.051	<0.03	--	<0.03	--	<0.03	<0.03	--	<0.03	--	<0.03	--	--	--	--	--	--
pH	pH Units	0.05	5.0 - 8.5	7.57	--	7.33	--	7.52	7.39	--	7.38	--	7.36	--	--	--	--	--	--
Volatiles																			
Acetone	ug/g dry	0.50	28	--	<0.50	--	<0.50	<0.50	--	<0.50	--	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	ug/g dry	0.02	0.4	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	--	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	ug/g dry	0.05	1.9	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g dry	0.05	1.7	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	ug/g dry	0.05	0.05	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g dry	0.05	0.71	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	ug/g dry	0.05	2.7	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	ug/g dry	0.05	0.18	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g dry	0.05	2.9	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g dry	0.05	25	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g dry	0.05	1.7	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g dry	0.05	12	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g dry	0.05	0.57	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g dry	0.05	0.6	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	ug/g dry	0.05	0.05	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethylene	ug/g dry	0.05	0.48	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethylene	ug/g dry	0.05	2.5	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethylene	ug/g dry	0.05	2.5	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	ug/g dry	0.05	0.68	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,3-Dichloropropylene	ug/g dry	0.05		--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropylene	ug/g dry	0.05		--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene, total	ug/g dry	0.05	0.081	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g dry	0.05	1.6	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide (dibromoethane, 1,2-)	ug/g dry	0.05	0.05	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane	ug/g dry	0.05	88	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone (2-Butanone)	ug/g dry	0.50	88	--	<0.50	--	<0.50	<0.50	--	<0.50	--	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	ug/g dry	0.50	210	--	<0.50	--	<0.50	<0.50	--	<0.50	--	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether	ug/g dry	0.05	2.3	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g dry	0.05	2	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g dry	0.05	43	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g dry	0.05	0.11	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g dry	0.05	0.094	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g dry	0.05	2.5	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	ug/g dry	0.05	9	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	ug/g dry	0.05	12	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	ug/g dry	0.05	0.11	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	ug/g dry	0.05	0.61	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g dry	0.05	5.8	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g dry	0.02	0.25	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	--	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
m/p-Xylene	ug/g dry	0.05		--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g dry	0.05		--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes, total	ug/g dry	0.05	30	--	<0.05	--	<0.05	<0.05	--	<0.05	--	<0.05	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hydrocarbons																			
F1 PHCs (C6-C10)	ug/g dry	7	65	--	<7	--	<7	<7	--	<7	--	<7	--	<7	<7	<7	<7	<7	<7
F2 PHCs (C10-C16)	ug/g dry	4	250	--	<4	--	5	8	--	6	--	6	--	5	5	<4	<4	5	<4
F3 PHCs (C16-C34)	ug/g dry	8	2500	--	11	--	18	39	--	45	--	25	--	37	26	<8	42	15	<8
F4 PHCs (C34-C50)	ug/g dry	6	6600	--	11	--	8	48	--	45	--	17	--	47	32	<6	48	14	<6

NOTES:

[1] MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*
[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.
[3] Combustible soil vapour concentrations measured with a RKI GX 6000 Photoionization Detector
MDL Method Detection Limit
-- No Value/Not Analysed
PHC Petroleum Hydrocarbon

Table 3
Summary of Soil Semi Volatile Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Industrial/Commercial/Community Property Use Coarse textured soil	Sample													
				10-SS2	BH9-SS2	12-SS2	BH14-SS2	BH20-SS1	24-SS2	25-SS2	26-SS1	27-SS3	28-SS2	29-SS3	30-SS5	31-SS4	32-SS4
Sample Date (dd/mm/yyyy)			--	07/04/2025	03/04/2025	07/04/2025	04/03/2025	04/10/2025	26/05/2026	25/05/2026	25/05/2026	26/05/2026	26/05/2026	26/05/2026	25/05/2026	25/05/2026	25/05/2026
Depth	m		--	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.0 - 0.6	0.6 - 1.2	0.6 - 1.2	0.0 - 0.6	1.2 - 1.8	0.6 - 1.2	1.2 - 1.8	2.4 - 3.0	1.8 - 2.4	1.8 - 2.4
CSV Readings[3]	ppm	0.1	--	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Semi-Volatiles																	
Acenaphthene	ug/g dry	0.02	29	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	ug/g dry	0.02	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Anthracene	ug/g dry	0.02	0.74	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]anthracene	ug/g dry	0.02	0.96	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Benzo[a]pyrene	ug/g dry	0.02	0.3	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Benzo[b]fluoranthene	ug/g dry	0.02	0.96	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Benzo[g,h,i]perylene	ug/g dry	0.02	9.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[k]fluoranthene	ug/g dry	0.02	0.96	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene	ug/g dry	0.02	9.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02
Dibenzo[a,h]anthracene	ug/g dry	0.02	0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluoranthene	ug/g dry	0.02	9.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.04	<0.02	0.06	<0.02	<0.02	<0.02
Fluorene	ug/g dry	0.02	69	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Indeno[1,2,3-cd]pyrene	ug/g dry	0.02	0.95	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1-Methylnaphthalene	ug/g dry	0.02	42	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2-Methylnaphthalene	ug/g dry	0.02	42	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene (1&2)	ug/g dry	0.04	42	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Naphthalene	ug/g dry	0.01	28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	ug/g dry	0.02	16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
Pyrene	ug/g dry	0.02	96	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.03	<0.02	0.06	<0.02	<0.02	<0.02

NOTES:
1 MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental*
2 Table 3: Full depth generic site condition standards in a non-potable groundwater condition.
3 Combustible soil vapour concentrations measured with a RKI GX 6000 Photoionization Detector
MDL Method Detection Limit
-- No Value/Not Analysed

Table 4
Summary of Soil Metals Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

			O. Reg. 153/04[1] Table 3[2] Industrial/Commercial/Community Property Use Coarse textured soil	Sample																		
	Units	MDL		BH1-SS1	2-SS2	BH3-SS2	BH5-SS1	7-SS2	BH9-SS2	10-SS2	11-SS2	12-SS2	BH14-SS2	BH20-SS1	BH20-SS2	24-SS1	25-SS1	26-SS2	27-SS1	28-SS1	29-SS1	30-SS5	31-SS4	32-SS4
Sample Date (d/m/y)			--	04/04/2025	07/04/2025	04/04/2025	04/03/2025	07/04/2025	03/04/2025	07/04/2025	07/04/2025	07/04/2025	04/03/2025	04/10/2025	04/10/2025	26/05/2026	25/05/2026	2505/2026	26/05/2026	26/05/2026	26/05/2026	25/05/2026	25/05/2026	25/05/2026
Depth	m		--	0.0 - 0.6	0.8 - 1.4	0.8 - 1.4	0.0 - 0.6	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.0 - 0.6	0.6 - 1.2	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	2.8 - 3.0	1.8 - 2.4	1.8 - 2.4
Metals																								
Antimony	ug/g dry	1.0	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	ug/g dry	1.0	18	3.8	3.3	3.2	4.0	3.7	3.5	4.2	3.9	4.6	3.8	3.6	4.7	2.1	2.3	2.1	2.1	1.9	2.2	3.6	1.6	1.7
Barium	ug/g dry	1.0	670	126	116	104	151	190	98.2	204	141	220	189	164	199	138	119	83.5	99.2	147	103	109	62.6	77.1
Beryllium	ug/g dry	1.0	10	0.6	<0.5	<0.5	0.7	0.6	0.05	0.7	0.6	0.8	0.8	0.7	0.8	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
Boron, available	ug/g dry	0.5		5.2	<0.5	6.4	6.6	<0.5	<5.0	0.6	0.6	<0.5	5.5	0.5	0.5	--	--	--	--	--	--	--	--	--
Boron	ug/g dry	1.0	120	--	5.1	--	--	8.1	--	9.2	8.3	8.6	--	8.2	8.8	6.7	5.4	12.5	6.2	8.9	6.8	6.0	<5.0	<5.0
Cadmium	ug/g dry	0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (VI)	ug/g dry	0.2	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2
Chromium	ug/g dry	1.0	160	31.4	36.4	28.6	34.8	32.5	30.8	40.5	38.9	54.0	62.2	40.9	45.7	27.7	25.6	22.1	22.6	18.1	23.1	30.9	18.7	15.4
Cobalt	ug/g dry	1.0	100	8.7	9.4	7.4	10.3	8.9	7.6	10.2	9.5	15.1	15.4	10.8	12.5	8.0	7.0	7.4	6.4	5.9	6.0	8.4	4.8	4.9
Copper	ug/g dry	1.0	300	11.9	16.3	11	15.1	16.5	15	20.5	16.6	30.5	31.4	20.7	21.2	15.9	12.3	11.8	13.1	14.4	16.5	15.4	13.5	9.7
Lead	ug/g dry	1.0	120	13.7	5.5	7.2	21.8	9.4	6.0	11.3	7.4	9.0	6.4	8.4	10.0	5.4	6.9	7.7	15.3	8.0	11.8	4.7	2.7	4.6
Mercury	ug/g dry	0.1	20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	ug/g dry	1.0	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	ug/g dry	1.0	340	15.9	23.1	12.5	18.4	16.6	15.8	20.9	18.7	31.2	33.8	22.1	22.8	16.8	13.7	16.0	13.1	11.9	12.5	17.7	10.1	9.3
Selenium	ug/g dry	1.0	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	ug/g dry	0.5	50	<0.3	<0.3	<.03	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	ug/g dry	1.0	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Uranium	ug/g dry	1.0	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	ug/g dry	1.0	86	53.8	40.6	40.7	53.8	46.4	43.3	55.9	55.0	76.2	77.4	56.4	64.9	37.0	37.5	22.6	30.2	24.2	29.0	45.0	34.0	25.0
Zinc	ug/g dry	1.0	340	61.9	27.2	43.2	63.9	53.2	43.9	67.2	56.7	77.9	71.5	68.4	76.5	36.3	36.9	21.6	47.2	28.0	39.1	41.2	26.9	22.7

NOTES:
1 MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the*
2 Table 3: Full depth generic site condition standards in a non-potable groundwater condition.
MDL Method Detection Limit
-- No Value/Not Analysed

Table 5
Summary of Soil OC- Pesticides Analysis
Limited Phase II Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

	Units	MDL	O. Reg. 153/04[1] Table 3[2] Industrial/Commercial/Community Property Use Coarse textured soil	Sample									
				BH7-SS2	BH10-SS2	BH5-SS2	BH14-SS2	24-SS1	25-SS1	26-SS1	27-SS1	28-SS1	29-SS1
Sample Date (dd/mm/yyyy)			--	07/04/2025	07/04/2025	03/04/2025	03/04/2025	26/05/2026	25/05/2026	25/05/2026	26/05/2026	26/05/2026	26/05/2026
Depth	m		--	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.8 - 1.4	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6	0.0 - 0.6
Pesticides, OC													
Aldrin	ug/g dry	0.01	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-BHC (Lindane)	ug/g dry	0.01	0.063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
alpha-Chlordane	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-Chlordane	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlordane	ug/g dry	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDD	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDD	ug/g dry	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
DDD	ug/g dry	0.02	4.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o,p-DDE	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDE	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDE	ug/g dry	0.01	0.65	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o,p-DDT	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
p,p-DDT	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDT	ug/g dry	0.01	1.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	ug/g dry	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endrin	ug/g dry	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endosulfan I	ug/g dry	0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endosulfan II	ug/g dry	0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Endosulfan I/II	ug/g dry	0.02	0.38	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Heptachlor	ug/g dry	0.01	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	ug/g dry	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	ug/g dry	0.01	0.66	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/g dry	0.01	0.095	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/g dry	0.01	0.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	ug/g dry	0.01	1.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

NOTES:
[1] MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection*
[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.
[3] MECP's On-Site and Excess Soil Management, December 2019.
[4] O. Reg 406/19: Table 4.1: Stratified Excess Soils Quality Standards in a Potable Groundwater Condition.
MDL Method Detection Limit
-- No Value/Not Analysed

Table 6
Summary of Groundwater General Inorganics, VOC and PHC Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Non-Potable Groundwater Conditions, Coarse Textured Soils	Sample MW27	Sample MW32	Sample MWX *(Duplicate of MW32)*	Sample Trip Blank
Sample Date (d/m/y)			--	27/05/2026	27/05/2026	27/05/2026	27/05/2026
Observations[3]			--	None	None	--	--
Headspace Readings[4]	ppm	0.1	--	1.9	<0.1	--	--
General Inorganics							
Cyanide, free	ug/L	2	66	<2	<2	<2	--
pH	pH Units	0.1	5.0 - 8.5	7.0	7.1	6.8	--
Anions							
Chloride	mg/L	1	2300	17	8	8	--
Volatiles							
Acetone	ug/L	5.0	130000	9.5	33.0	34.3	<5.0
Benzene	ug/L	0.5	44	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	ug/L	0.5	85000	<0.5	<0.5	<0.5	<0.5
Bromoform	ug/L	0.5	380	<0.5	<0.5	<0.5	<0.5
Bromomethane	ug/L	0.5	5.6	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	ug/L	0.2	0.79	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	ug/L	0.5	630	<0.5	<0.5	<0.5	<0.5
Chloroform	ug/L	0.5	2.4	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	ug/L	0.5	82000	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	ug/L	1.0	4400	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	0.5	4600	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	ug/L	0.5	9600	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	ug/L	0.5	8	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	ug/L	0.5	320	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	ug/L	0.5	1.6	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	ug/L	0.5	1.6	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	ug/L	0.5	1.6	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethylene	ug/L	0.5	1.6	<0.5	<0.5	<0.5	1.0
1,2-Dichloropropane	ug/L	0.5	16	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	ug/L	0.5		<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropylene	ug/L	0.5		<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene, total	ug/L	0.5	5.2	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	0.5	2300	<0.5	<0.5	<0.5	<0.5
Ethylene dibromide (dibromoethane, 1,2-)	ug/L	0.2	0.25	<0.2	<0.2	<0.2	<0.2
Hexane	ug/L	1.0	51	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (2-Butanone)	ug/L	5.0	470000	<5.0	<5.0	5.4	<5.0
Methyl Isobutyl Ketone	ug/L	5.0	140000	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	ug/L	2.0	190	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	ug/L	5.0	610	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	0.5	1300	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	ug/L	0.5	3.3	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ug/L	0.5	3.2	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	ug/L	0.5	1.6	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	0.5	18000	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ug/L	0.5	640	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	ug/L	0.5	4.7	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	ug/L	0.5	1.6	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	ug/L	1.0	2500	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	ug/L	0.5	0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene	ug/L	0.5		<0.5	<0.5	<0.5	<0.5
o-Xylene	ug/L	0.5		<0.5	<0.5	<0.5	<0.5
Xylenes, total	ug/L	0.5	4200	<0.5	<0.5	<0.5	<0.5
Hydrocarbons							
F1 PHCs (C6-C10)	ug/L	25	750	<25	<25	<25	--
F2 PHCs (C10-C16)	ug/L	100	150	<100	<100	<100	--
F3 PHCs (C16-C34)	ug/L	100	500	<100	<100	<100	--
F4 PHCs (C34-C50)	ug/gL	100	500	<100	<100	<100	--

NOTES:

[1] MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*

[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.

[3] To meet the site condition standard, the sample must be free of visual observations indicative of suspected petroleum hydrocarbons

[4] Combustible soil vapour concentrations measured with a RKI GX 6000 Photoionization Detector

MDL Method Detection Limit

-- No Value/Not Analysed

PHC Petroleum Hydrocarbon

Table 7
Summary of Groundwater Semi Volatile Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Non-Potable Groundwater Conditions, Coarse Textured Soils	Sample MW27	Sample MW32	Sample MWX *Duplicate of MW32)*	Sample Trip Blank
Sample Date (d/m/y)			--	27/05/2026	27/05/2026	27/05/2026	27/05/2026
Observations[3]			--	None	None	--	--
Headspace Readings[3]	ppm	0.1	--	1.9	<0.1	--	--
Semi-Volatiles							
Acenaphthene	ug/L	0.05	600	<0.05	<0.05	<0.05	--
Acenaphthylene	ug/L	0.05	1.8	<0.05	<0.05	<0.05	--
Anthracene	ug/L	0.01	2.4	0.01	<0.01	<0.01	--
Benzo[a]anthracene	ug/L	0.01	4.7	0.05	<0.01	<0.01	--
Benzo[a]pyrene	ug/L	0.01	0.81	0.06	<0.01	<0.01	--
Benzo[b]fluoranthene	ug/L	0.05	0.75	0.11	<0.05	<0.05	--
Benzo[g,h,i]perylene	ug/L	0.05	0.2	<0.05	<0.05	<0.05	--
Benzo[k]fluoranthene	ug/L	0.05	0.4	<0.05	<0.05	<0.05	--
Chrysene	ug/L	0.05	1	0.07	<0.05	<0.05	--
Dibenzo[a,h]anthracene	ug/L	0.05	0.52	<0.05	<0.05	<0.05	--
Fluoranthene	ug/L	0.01	130	0.10	<0.05	0.04	--
Fluorene	ug/L	0.05	400	<0.05	<0.05	<0.05	--
Indeno [1,2,3-cd] pyrene	ug/L	0.05	0.2	<0.05	<0.05	<0.05	--
1-Methylnaphthalene	ug/L	0.05	1800	<0.05	<0.05	<0.05	--
2-Methylnaphthalene	ug/L	0.05	1800	<0.05	<0.05	<0.05	--
Methylnaphthalene (1&2)	ug/L	0.10	1800	<0.10	<0.10	<0.10	--
Naphthalene	ug/L	0.05	1400	<0.05	<0.05	<0.05	--
Phenanthrene	ug/L	0.05	580	0.08	<0.05	0.11	--
Pyrene	ug/L	0.01	68	0.08	<0.01	0.05	--

NOTES:

1 MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*

2 Table 3: Full depth generic site condition standards in a non-potable groundwater condition.

3 Combustible soil vapour concentrations measured with a RKI GX 6000 Photoionization Detector

MDL Method Detection Limit

-- No Value/Not Analysed

Table 8
Summary of Groundwater Metals Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Non-Potable Groundwater Conditions, Coarse Textured Soils	Sample MW27	Sample MW32	Sample MWX *(Duplicate of MW32)*	Sample Trip Blank
Sample Date (d/m/y)			--	27/05/2026	27/05/2026	27/05/2026	27/05/2026
Metals							
Mercury	ug/L	0.1	0.29	<0.1	<0.1	<0.1	--
Antimony	ug/L	0.5	20000	<0.5	0.8	<0.5	--
Arsenic	ug/L	1	1900	<1	<1	<1	--
Barium	ug/L	1	29000	141	466	467	--
Beryllium	ug/L	0.5	67	<0.5	<0.5	<0.5	--
Boron	ug/L	10	45000	131	16	16	--
Cadmium	ug/L	0.1	2.7	<0.1	<0.1	<0.1	--
Chromium	ug/L	1	810	<1	<1	<1	--
Chromium (VI)	ug/L	10	140	<10	<10	<10	--
Cobalt	ug/L	0.5	66	12.2	14.8	15.1	--
Copper	ug/L	0.5	87	0.9	11.9	12.2	--
Lead	ug/L	0.1	25	0.1	<0.1	<0.1	--
Molybdenum	ug/L	0.5	9200	0.8	0.8	0.7	--
Nickel	ug/L	1	490	8	22	22	--
Selenium	ug/L	1	63	<1	<1	<1	--
Silver	ug/L	0.1	1.5	<0.1	<0.1	<0.1	--
Sodium	ug/L	200	2300000	58700	9720	9530	--
Thallium	ug/L	0.1	510	<0.1	<0.1	<0.1	--
Uranium	ug/L	0.1	420	3.4	1.8	1.5	--
Vanadium	ug/L	0.5	250	0.7	1.3	1.4	--
Zinc	ug/L	5	1100	6	<5	6	--

NOTES:

[1] MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*

[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.

MDL Method Detection Limit

-- No Value/Not Analysed

Table 9
Summary of Groundwater Pesticides Analysis
Phase Two Environmental Site Assessment
2775 & 2785 Palladium Drive; and , Block 244 Plan 4M 1687, Ottawa, Ontario
LRL File: 240720

Parameter	Units	MDL	O. Reg. 153/04[1] Table 3[2] Non-Potable Groundwater Conditions, Coarse Textured Soils	Sample MW27	Sample MW32	Sample MWX *(Duplicate of MW32)*	Sample Trip Blank
Sample Date (d/m/y)			--	27/05/2026	27/05/2026	27/05/2026	27/05/2026
OC Pesticides							
Aldrin	ug/L	0.01	8.5	0.02	<0.01	<0.01	--
gamma-BHC (Lindane)	ug/L	0.01	1.2	<0.01	<0.01	<0.01	--
alpha-Chlordane	ug/L	0.01		<0.01	<0.01	<0.01	--
gamma-Chlordane	ug/L	0.01		<0.01	<0.01	<0.01	--
Chlordane	ug/L	0.01	28	<0.01	<0.01	<0.01	--
o,p-DDD	ug/L	0.01		<0.01	<0.01	<0.01	--
p,p-DDD	ug/L	0.01		<0.01	<0.01	<0.01	--
DDD	ug/L	0.01	45	<0.01	<0.01	<0.01	--
o,p-DDE	ug/L	0.01		<0.01	<0.01	<0.01	--
p,p-DDE	ug/L	0.01		<0.01	<0.01	<0.01	--
DDE	ug/L	0.01	20	<0.01	<0.01	<0.01	--
o,p-DDT	ug/L	0.01		<0.01	<0.01	<0.01	--
p,p-DDT	ug/L	0.01		<0.01	<0.01	<0.01	--
DDT	ug/L	0.01	2.8	<0.01	<0.01	<0.01	--
Dieldrin	ug/L	0.01	0.75	<0.01	<0.01	<0.01	--
Endrin	ug/L	0.01	0.48	<0.01	<0.01	<0.01	--
Endosulfan I	ug/L	0.01		<0.01	<0.01	<0.01	--
Endosulfan II	ug/L	0.01		<0.01	<0.01	<0.01	--
Endosulfan I/II	ug/L	0.01	1.5	<0.01	<0.01	<0.01	--
Heptachlor	ug/L	0.01	2.5	<0.01	<0.01	<0.01	--
Heptachlor Epoxide	ug/L	0.01	0.048	<0.01	<0.01	<0.01	--
Hexachlorobenzene	ug/L	0.01	3.1	<0.01	<0.01	<0.01	--
Hexachlorobutadiene	ug/L	0.01	0.44	<0.01	<0.01	<0.01	--
Hexachloroethane	ug/L	0.01	94	<0.01	<0.01	<0.01	--
Methoxychlor	ug/L	0.01	6.5	<0.01	<0.01	<0.01	--

NOTES:

[1] MECPs *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011*

[2] Table 3: Full depth generic site condition standards in a non-potable groundwater condition.

MDL Method Detection Limit

-- No Value/Not Analysed

APPENDIX A

Borehole Logs

Borehole Log: BH-1

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 04, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

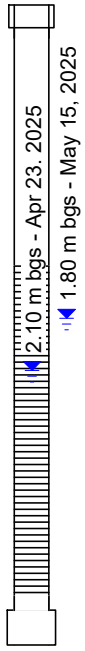
Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.50					
0 / 0	**TOPSOIL** About 200 mm thick.	0.00					
1 / 2 / 3 / 4 / 1	**SAND and SILT** trace clay, trace gravel sized stone, moist, grey, loose to compact.				SS1	4	33
					SS2	5	50
5 / 6 / 7 / 2					SS3	7	83
8 / 9 / 10 / 3					SS4	25	75
					SS5	50+	75
12 / 13 / 4	End of Borehole Borehole terminated after practical auger refusal	103.82 3.68					

SUBSURFACE PROFILE | **SAMPLE DATA**

Shear Strength (kPa) 50 150 | **SPT N Value** (Blows/0.3 m) 20 40 60 80

Water Content (%) 25 50 75 | **Liquid Limit** (%) 25 50 75

Water Level (Standpipe or Open Borehole)



Easting: 5015479
Northing: 426601
Site Datum: Site Benchmark
Groundsurface Elevation: 107.50 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

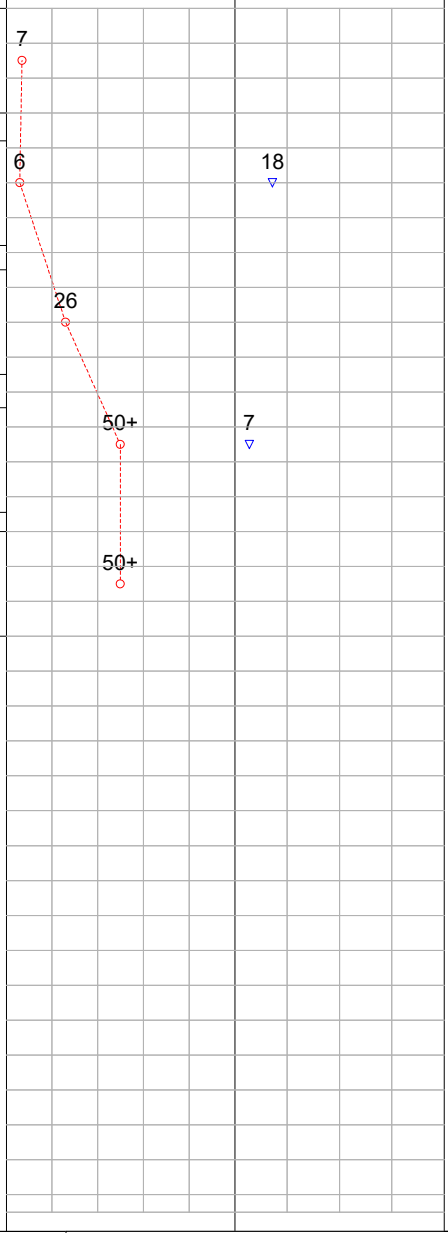
Borehole Log: BH-2

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 07, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.60					
0 / 0	**TOPSOIL** About 200 mm thick.	0.00					
1 / 0	**FILL MATERIAL** silt-sand-clay, trace gravel, moist, brown, loose.				SS1	7	38
3 / 1					SS2	6	58
4 / 1		106.15					
5 / 2	**SAND and SILT** trace clay, trace gravel sized stone, moist, brown, compact to very dense.	1.45			SS3	26	33
8 / 2					SS4	50+	58
11 / 3					SS5	50+	0
12 / 3		103.94					
13 / 4	End of Borehole	3.66					

Shear Strength (kPa) 50 150
SPT N Value (Blows/0.3 m) 20 40 60 80
Water Content (%) 25 50 75
Liquid Limit (%) 25 50 75



Water Level (Standpipe or Open Borehole)

Easting: 5015445
Northing: 426631
Site Datum: Site Benchmark
Groundsurface Elevation: 107.60 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

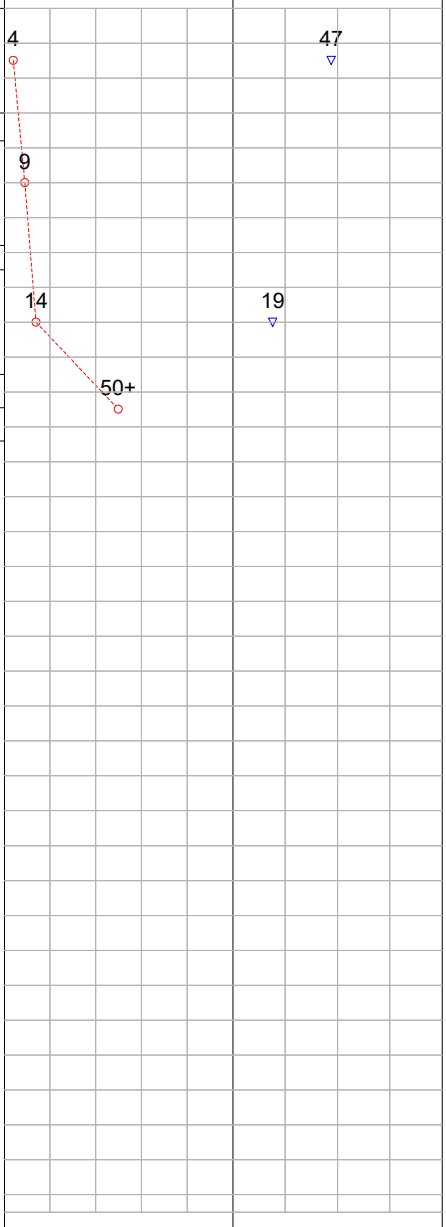
Borehole Log: BH-3

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 04, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.88					
0 / 0	**TOPSOIL** About 150 mm thick.	0.00					
1 / 0	**SANDY SILT** some clay, trace gravel sized stone, brown, moist, loose to compact.				SS1	4	25
3 / 1					SS2	9	38
5 / 1					SS3	14	50
7 / 2							
8 / 2		105.43			SS4	50+	33
8 / 2	End of Borehole Borehole terminated after practical auger refusal	2.45					

Shear Strength (kPa) 50 150
SPT N Value (Blows/0.3 m) 20 40 60 80
Water Content (%) 25 50 75
Liquid Limit (%) 25 50 75
Water Level (Standpipe or Open Borehole)



Easting: 5015557
Northing: 426579
Site Datum: Site Benchmark
Groundsurface Elevation: 107.88 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log: BH-4

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 04, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.59					
0 / 0	**TOPSOIL** About 175 mm thick.	0.00					
0 / 0	**SILTY SAND** trace clay, trace gravel sized stone, brown, moist, loose to dense.						
3 / 1					SS1	3	29
5 / 1					SS2	31	83
6 / 2					SS3	17	50
8 / 2					SS4	6	100
10 / 3					SS5	50+	33
10 / 3		104.39					
11 / 3	End of Borehole Borehole terminated after practical auger refusal	3.20					

Shear Strength (kPa) 50 150
SPT N Value (Blows/0.3 m) 20 40 60 80
Water Content (%) 25 50 75
Liquid Limit (%) 25 50 75

SPT N Value: 3, 31, 17, 6, 50+
Water Content: 26, 6

Water Level (Standpipe or Open Borehole)

Easting: 5015549
Northing: 426589
Site Datum: Site Benchmark
Groundsurface Elevation: 107.59 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log: BH-5

Project No.: 240720 **Project:** Geotechnical Investigation

Client: Palladium Resort Dev.Ltd. Partnership **Location:** Palladium Drive, Ottawa ON

Date: April 03, 2025 **Field Personnel:** KB

Driller: George Downing Estate Drilling. **Drilling Equipment:** Track Mount CME 75 **Drilling Method:** Hollow Stem Auger

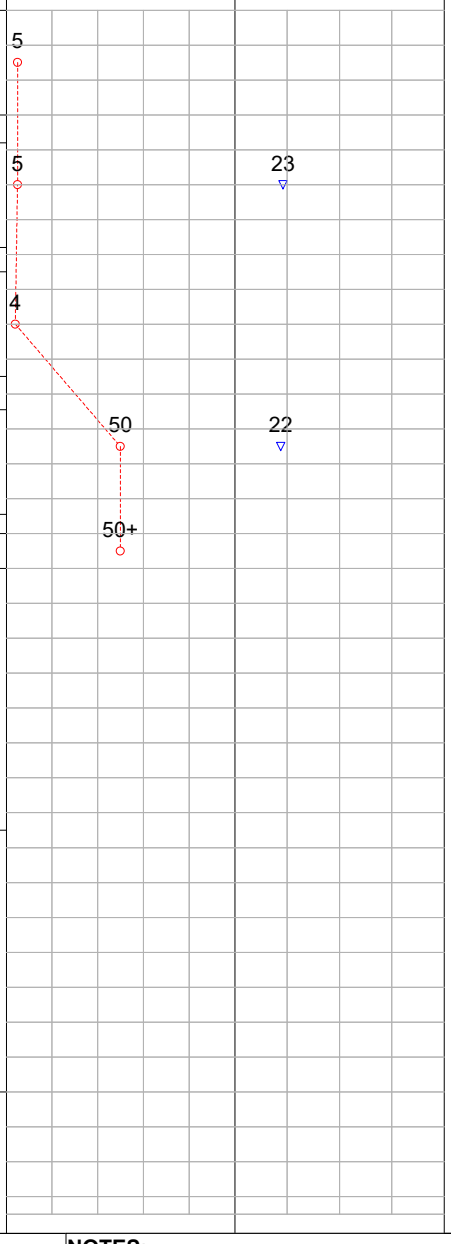
Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.77					
0 / 0	**TOPSOIL** About 150 mm thick.	0.00					
1 / 2	**SILTY SAND** some clay, brown, moist, loose to dense.				SS1	5	25
3 / 1					SS2	5	33
5 / 6					SS3	4	55
7 / 8					SS4	50	55
10 / 3		104.57			SS5	50+	0
11 / 12	**LIMESTONE BEDROCK** grey, weathered at surface.	3.20					
13 / 4					RC1	66	100
16 / 5					RC2	100	97
21 / 6					RC3	67	100

Shear Strength (kPa) 50 150

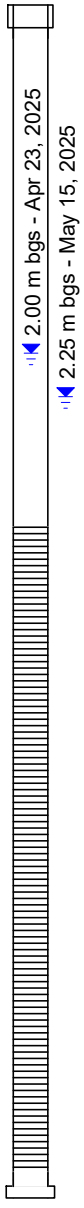
SPT N Value (Blows/0.3 m) 20 40 60 80

Water Content (%) 25 50 75

Liquid Limit (%) 25 50 75



Water Level (Standpipe or Open Borehole)



Easting: 5015570 **Northing:** 426604

Site Datum: Site Benchmark

Groundsurface Elevation: 107.77 m **Top of Riser Elev.:** NA

Hole Diameter: 200mm

NOTES:

No water encountered while drilling.

Borehole Log (continued): BH-5

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev.Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA								
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
23					RC3	67				
24										
25		100.05								
26	End of Borehole	7.72								
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

8 9 10 11 12 13

NOTES

Borehole Log: BH-7

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.68					
0 / 0	**TOPSOIL** About 150 mm thick.	0.00					
0 / 0	**FILL MATERIAL** silt-sand-clay, some gravel, brown, moist, loose to very dense.				SS1	9	67
3 / 1					SS2	50	33
5 / 1		106.23					
5 / 1	**SANDY SILT** some clay, some gravel sized stone, moist, compact.	1.45			SS3	6	58
8 / 2					SS4	17	42
10 / 3					SS5	50+	50
12 / 3		104.02					
12 / 3	End of Borehole	3.66					

Shear Strength (kPa) 50 150
SPT N Value (Blows/0.3 m) 20 40 60 80
Water Content (%) 25 50 75
Liquid Limit (%) 25 50 75

SPT N Values: 9, 50, 6, 17, 50+
Water Content: 13, 19

Water Level (Standpipe or Open Borehole)
1.75 m bgs - Apr 23, 2025
1.80 m bgs - May 15, 2025

Easting: 5015520
Northing: 426650
Site Datum: Site Benchmark
Groundsurface Elevation: 107.68 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log: BH-9

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 / 0	Ground Surface	108.00								
0 / 0	**TOPSOIL** About 150 mm thick.	0.00								
1 / 0	**FILL MATERIAL** sand-clay, some silt, some organics, brown, moist, very loose.				SS1	3	50	3		
3 / 1					SS2	3	75	3	31	
4 / 1		106.55								
5 / 2	**SILTY CLAY** some sand, some gravel sized stone, moist, soft to firm.	1.45			SS3	2	50	2		
8 / 2					SS4	8	42	8	23	
9 / 2		105.11								
10 / 3	**SILTY SAND** trace clay, some gravel sized stone, grey, wet, loose to dense.	2.89			SS5	5	66	5		
16 / 5					SS6	41	75	41	19	
20 / 6					SS7	56	75	56		
21 / 6		101.68								
21 / 6	**LIMESTONE BEDROCK** weathered at surface, grey.	6.32								

Easting: 5015604
Northing: 426637
Site Datum: Site Benchmark
Groundsurface Elevation: 108.00 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log (continued): BH-9

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev. Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA									
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
23					RC1	76	100			
24										
25										
26 – 8										
27										
28					RC2	95	86			
29 – 9										
30		98.85								
	End of Borehole	9.15								
31										
32										
33 – 10										
34										
35										
36 – 11										
37										
38										
39 – 12										
40										
41										
42 – 13										
43										
44										
45										

NOTES

Borehole Log: BH-10

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 07, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 ft / 0 m	Ground Surface	107.55								
0	**TOPSOIL** About 150 mm thick. **FILL MATERIAL** sand-clay, some silt, some organics, brown, moist, very loose.	0.00			SS1	6	67	6	16	
3 ft / 1 m					SS2	10	67	10		
6 ft / 2 m					SS3	7	58	7	22	
7		105.34								
8	**SILTY CLAY** some sand, some gravel sized stone, moist, soft to firm.	2.21			SS4	3	42	3		
10 ft / 3 m					SS5	5	53	5	13	
12		103.89								
13 ft / 4 m	End of Borehole	3.66								
16 ft / 5 m										
19 ft / 6 m										
22										

Easting: 5015553
Northing: 426678
Site Datum: Site Benchmark
Groundsurface Elevation: 107.55 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log: BH-11

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 07, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 ft / 0 m	Ground Surface	108.15								
0 – 1 ft	**TOPSOIL** About 450 mm thick.	0.00 107.70			SS1	7	42	7		
1 – 3 ft / 0 – 1 m	**SANDY SILT** some clay, some gravel sized stone, brown, moist, loose to compact.	0.45			SS2	5	42	5	22	
3 – 6 ft / 1 – 2 m					SS3	11	58	11		
6 – 8 ft / 2 m					SS4	9	38	9	16	
8 – 10 ft / 2 – 3 m					SS5	5	0	5		
12 ft / 4 m	End of Borehole	104.49 3.66								

Easting: 5015515
Northing: 426713
Site Datum: Site Benchmark
Groundsurface Elevation: 108.15 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log: BH-12

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 07, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 / 0	Ground Surface	107.98								
0	**TOPSOIL** About 150 mm thick.	0.00								
1	**SILTY CLAY** some sand, some gravel sized stone at deeper depths, brownish grey, moist, soft to firm.				SS1	2	50	2	25	
2 / 1					SS2	3	100	3		
5					SS3	2	100	2	51	
7 / 2					SS4	1	42	1		
10 / 3					SS5	6	25	6	18	
13 / 4										
15					SS6	4	58	4	51 / 50	
16 / 5										
18		102.34								
19 / 6	**SILTY SAND** brown, wet, compact to very dense.	5.64								
20					SS7	12	100	12	22	
22										

Easting: 5015625
Northing: 426656
Site Datum: Site Benchmark
Groundsurface Elevation: 107.98 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log (continued): BH-12

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev. Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 07, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA								
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
8										
9					SS8	58	50	58		
10		99.66								
11	End of Borehole Borehole terminated after practical auger refusal	8.32								
12										
13										

NOTES

Borehole Log: BH-14

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 ft / 0 m	Ground Surface	107.65								
0	**TOPSOIL** About 50 mm thick. **FILL MATERIAL** sand, trace gravel, dry, very loose.	0.00			SS1	2	8	2		
		106.89								
1	**SILTY CLAY** trace sand, some gravel sized stone, brown, wet, soft to firm.	0.76			SS2	3	8	3		
					SS3	5	25	5	21	
2					SS4	4	0	4		
3					SS5	4	4	4	26	
4		103.53								
	SILTY SAND trace clay, brown, wet, compact.	4.12								
5					SS6	21	71	21	22	
6	**LIMESTONE BEDROCK** grey, hard.	101.77								
		5.88			RC1	80	100			
					RC2	83	100			

Easting: 5015560
Northing: 426697
Site Datum: Site Benchmark
Groundsurface Elevation: 107.65 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log (continued): BH-14

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 03, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA									
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
23										
24										
25										
26										
27										
28					RC3	85	100			
29										
30		98.45								
	End of Borehole	9.20								
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

8 9 10 11 12 13

NOTES

Borehole Log: BH-20

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 10, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0 ft / 0 m	Ground Surface	108.35								
0	**TOPSOIL** About 150 mm thick. **SILTY CLAY** some sand, grey, moist, firm to stiff.	0.00			SS1	5	50	5	19	
1					SS2	10	42	10		
2					SS3	9	29	9	28	
3					SS4	5	17	5		
4					SS5	10	25	10	25	
5	End of Borehole Borehole terminated after practical auger refusal	104.11 4.24								
6										

Easting: 5015655
Northing: 426721
Site Datum: Site Benchmark
Groundsurface Elevation: 108.35 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

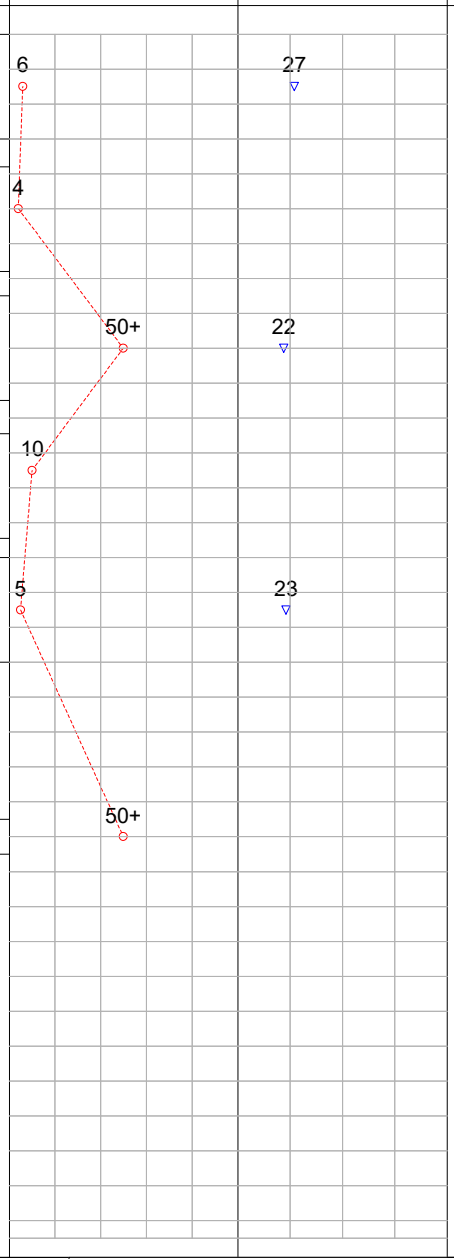
NOTES:
No water encountered while drilling.

Borehole Log: BH-21

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 02, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth (m)	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	108.75			
0	**TOPSOIL** About 200 mm thick.	0.00			
1	**FILL MATERIAL** sand-clay, some silt, organics, brownish grey, moist, loose.		SS1	6	38
2					
3 / 1			SS2	4	29
4		107.30			
5	**SILTY CLAY** some sand, some gravel sized stone, ocassional boulders	1.45	SS3	50+	17
6 / 2					
7			SS4	10	0
8					
9			SS5	5	12
10 / 3					
11					
12					
13 / 4					
14					
15	Casing advanced through boulders, unable to auger past 4.6 m bgs.		SS6	50+	0
16 / 5					
17					
18					
19					
20 / 6					
21					
22					



Water Level (Standpipe or Open Borehole)

Easting: 5015124
Northing: 426743
Site Datum: Site Benchmark
Groundsurface Elevation: 108.75 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log (continued): BH-21

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev.Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 02, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA								
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
23										
24										
25		101.13								
	End of Borehole	7.62								
26 — 8										
27										
28										
29 — 9										
30										
31										
32 — 10										
33										
34										
35										
36 — 11										
37										
38										
39 — 12										
40										
41										
42 — 13										
43										
44										
45										

NOTES

Borehole Log: BH-22

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Development Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 10, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

Depth (ft)	Depth (m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) / SPT N Value (Blows/0.3 m)	Water Content (%) / Liquid Limit (%)	Water Level (Standpipe or Open Borehole)
0	0	Ground Surface	107.75								
0	0	NO SAMPLE RECOVERED	0.00			SS1	2	0	2		
3	1					SS2	4	0	4		
5	1		106.25								
5	1	**SILTY SAND** brown, moist, very loose.	1.50			SS3	3	42	3	21	
8	2					SS4	2	92	2		
10	3		104.78								
10	3	**CLAYEY SILT** some sand, greyish brown, moist, very loose to loose.	2.97			SS5	2	92	2	37 40	
13	4		103.63								
14	4	**SILT** trace clay, trace sand, grey, wet, very loose	4.12								
15	5					SS6	6	100	6		
20	6					SS7	2	100	2	24	
22	6										

Easting: 5015591
Northing: 426765
Site Datum: Site Benchmark
Groundsurface Elevation: 107.75 m
Top of Riser Elev.: NA
Hole Diameter: 200mm

NOTES:
No water encountered while drilling.

Borehole Log (continued): BH-22

Project No.: 240720
Project: Geotechnical Investigation
Client: Palladium Resort Dev. Ltd. Partnership
Location: Palladium Drive, Ottawa ON
Date: April 10, 2025
Field Personnel: KB

Driller: George Downing Estate Drilling.
Drilling Equipment: Track Mount CME 75
Drilling Method: Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA								
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)	Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
25		100.03			SS8	50+		50+		
26	End of Borehole	7.72								

NOTES

Borehole Log: BH-23

Project No.: 240720 **Project:** Geotechnical Investigation

Client: Palladium Resort Dev. Ltd. Partnership **Location:** Palladium Drive, Ottawa ON

Date: April 8, 2025 **Field Personnel:** KB

Driller: George Downing Estate Drilling. **Drilling Equipment:** Track Mount CME 75 **Drilling Method:** Hollow Stem Auger

Depth (ft / m)	Soil Description	Elev./Depth(m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)
0 / 0	Ground Surface	107.33					
0 / 0	**TOPSOIL** about 150 mm thick.	0.00					
0–2 / 0–1	**SILTY SAND** trace clay, brown, moist to wet, very loose to dense.				SS1	10	33
					SS2	1	4
					SS3	1	0
					SS4	2	17
					SS5	38	33
					SS6	8	67
					SS7	9	50
22 / 6.7	**LIMESTONE BEDROCK** grey, hard.	100.73 6.60			RC1	69	100

Shear Strength (kPa) 50 150 — SPT N Value (Blows/0.3 m) 20 40 60 80: 10, 1, 1, 2, 38, 8, 9

Water Content (%) 25 50 75 — Liquid Limit (%) 25 50 75: 25, 25, 24

Water Level (Standpipe or Open Borehole)

Easting: 5015575 **Northing:** 426723

Site Datum: Site Benchmark

Groundsurface Elevation: 107.33 m **Top of Riser Elev.:** NA

Hole Diameter: 200mm

NOTES:

No water encountered while drilling.

Borehole Log (continued): BH-23

Project No.: 240720 **Project:** Geotechnical Investigation

Client: Palladium Resort Dev. Ltd. Partnership **Location:** Palladium Drive, Ottawa ON

Date: April 8, 2025 **Field Personnel:** KB

Driller: George Downing Estate Drilling. **Drilling Equipment:** Track Mount CME 75 **Drilling Method:** Hollow Stem Auger

SUBSURFACE PROFILE		SAMPLE DATA						Shear Strength (kPa) 50 150 / SPT N Value (Blows/0.3 m) 20 40 60 80	Water Content (%) 25 50 75 / Liquid Limit (%) 25 50 75	Water Level (Standpipe or Open Borehole)
Depth	Soil Description	Elev./Depth (m)	Lithology	Type	Sample Number	N or RQD	Recovery (%)			
23					RC1	69				
24					RC2	91	100			
25										
26 — 8										
27					RC3	95	100			
28										
29 — 9										
30	End of Borehole	98.26 9.07								
31										
32										
33 — 10										
34										
35										
36 — 11										
37										
38										
39 — 12										
40										
41										
42 — 13										
43										
44										
45										

NOTES

BOREHOLE LOG: MW24

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5430 Canotek Road | Ottawa, ON, K1J 9G2
www.lrl.ca | (613) 842-3434

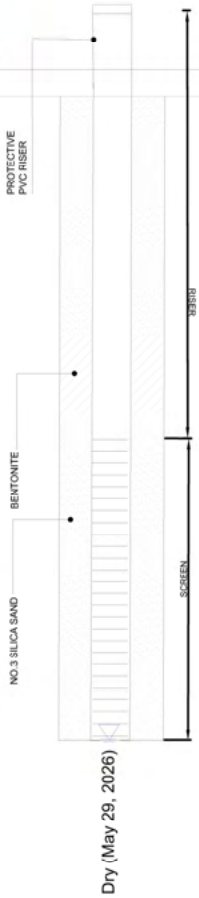
PROJECT NO.: 240720
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
DATE: MAY 26, 2026

PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800
0.0	0.0	**CLAY:** Loamy with traces of gravel, traces of organics, becoming silty at 2.4 m bgs, compact, moist, brown.	107.07 0.00			SS1	19	79	OC Pesticides Inorganics Heavy Metals (Hg & CrVI)	<0.1
3.0	1.0					SS2	4	58	VOC PHC PAH	<0.1
4.0			105.86							
5.0		**SILT:** Loose, moist, brown. Presence of rock in tip at depths of 3.0 m, where the borehole was terminated as per the scope of this assessment.	1.21			SS3	4	92		<0.1
7.0	2.0					SS4	4	96		<0.1
9.0						SS5	50+	50		<0.1
10.0	3.0	**END OF BOREHOLE**	104.03 3.04							
13.0	4.0									
17.0	5.0									
20.0	6.0									

MONITORING WELL DETAILS



EASTING: 0426577
NORTHING: 5015417
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.07 m
TOP OF RISER ELEVATION: 108.04 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: N/A

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: BH25

LRL ENGINEERING | INGÉNIERIE
5430 Canotek Road, Ottawa, ON, K1J 9G2
www.lrl.ca (613) 842-3434

PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT / M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800	MONITORING WELL DETAILS
0.0 / 0.0		107.19								
1.0	**LOAM:** Clayey, traces of organics and traces of gravel, loose, moist, brown.	0.00			SS1	7	38	CC Pesticides Inorganics Heavy Metals (Hg & CrVI)	<0.1	
2.0		106.58								
3.0 / 1.0	**SILTY CLAY:** Soft, moist, brown.	0.61			SS2	5	29	VOC PHC PAH	<0.1	
4.0										
5.0					SS3	5	21		<0.1	
6.0		106.58								
7.0 / 2.0	**SILT:** Traces of clay, Loose to compact, moist to saturated, brown.	1.83			SS4	3	50		<0.1	
8.0										
9.0					SS5	12	75		<0.1	
10.0 / 3.0		104.02								
11.0	**END OF BOREHOLE**	3.04								
12.0										
13.0 / 4.0										
14.0										
15.0										
16.0 / 5.0										
17.0										
18.0										
19.0										
20.0 / 6.0										

EASTING: 0426516
NORTHING: 5015367
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 106.95 m
TOP OF RISER ELEVATION: N/A
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: N/A

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
PCB: Polychlorinated Biphenyls
N/A: Not applicable

BOREHOLE LOG: BH26

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5430 Canotek Road, Ottawa, ON, K1J 9G2
www.lrl.ca (613) 842-3434

PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800	MONITORING WELL DETAILS
0.0	0.0		107.19								
		LOAM: Clayey, gravelly, traces of organics, loose, moist, brown.	0.00			SS1	7	38	OC Pesticides PAH	<0.1	
3.0	1.0		105.98			SS2	5	29	VOC PHC Inorganics Heavy Metals (Hg & CrVI)	<0.1	
		SILT: Traces of gravel, traces of clay moist to saturated at 2.8 m bgs, grey to brown.	1.21			SS3	5	21		<0.1	
7.0	2.0					SS4	3	50		<0.1	
9.0						SS5	12	75		<0.1	
10.0	3.0		104.15								
		END OF BOREHOLE	3.04								
20.0	6.0										

EASTING: 0426480
NORTHING: 5015404
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.19 m
TOP OF RISER ELEVATION: N/A
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: N/A

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: BH26

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5430 Canotek Road, Ottawa, ON, K1J 9G2
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PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800	MONITORING WELL DETAILS
0.0	0.0		107.19								
		LOAM: Clayey, gravelly, traces of organics, loose, moist, brown.	0.00			SS1	7	38	OC Pesticides PAH	<0.1	
3.0	1.0		105.98			SS2	5	29	VOC PHC Inorganics Heavy Metals (Hg & CrVI)	<0.1	
		SILT: Traces of gravel, traces of clay moist to saturated at 2.8 m bgs, grey to brown.	1.21			SS3	5	21		<0.1	
7.0	2.0					SS4	3	50		<0.1	
9.0						SS5	12	75		<0.1	
10.0	3.0		104.15								
		END OF BOREHOLE	3.04								
20.0	6.0										

EASTING: 0426480
NORTHING: 5015404
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.19 m
TOP OF RISER ELEVATION: N/A
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: N/A

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW27

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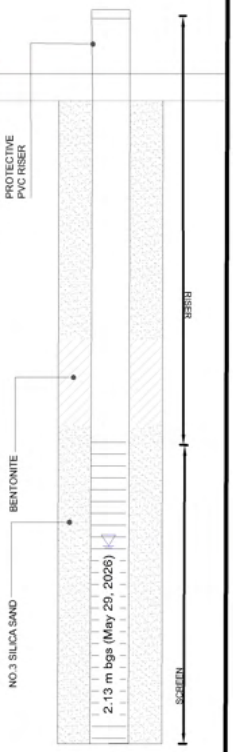
PROJECT NO.: 240720
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
DATE: MAY 26, 2026

PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800
0.0	0.0		107.51							
0.0	0.0	**LOAM:** Clayey, traces of organics and traces of gravel, loose, moist, brown, traces of rock from 1.2 to 1.8 m bgs.	0.00			SS1	6	50	OC Pesticides Inorganics Heavy Metals (Hg & CrVI)	<0.1
2.0						SS2	4	50	VOC PHC	<0.1
3.0	1.0									
5.0						SS3	50+	17	PAH	<0.1
6.0			105.68							
6.0	2.0	**SILT:** Compact to loose, moist to saturated, grey-brown, presence of rock in basal part of borehole.	1.83			SS4	10	21		<0.1
9.0						SS5	8	75		<0.1
10.0	3.0	**END OF BOREHOLE**	104.47 / 3.04							
20.0	6.0									

MONITORING WELL DETAILS



EASTING: 0426445
NORTHING: 5015440
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.51 m
TOP OF RISER ELEVATION: 108.45 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: 51 mm

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW28

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PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT / M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) / ISOBUTYLENE (ppm)	MONITORING WELL DETAILS
0.0 / 0.0		107.54								
0.0 – 1.0 / 0.0 – 0.3	**LOAM:** Silty, presence of organics and gravel, becoming clayey in depth, compact, moist, brown.	0.00 – 106.93			SS1	12	33	OC Pesticides Inorganics Heavy Metals (Hg & CrVI)	<0.1	
1.0 – 6.0 / 0.3 – 1.8	**SILTY CLAY:** Soft, moist, grey.	0.61 – 105.71			SS2	7	54	VOC PHC PAH	<0.1	
					SS3	8	33		<0.1	
6.0 – 10.0 / 1.8 – 3.0	**CLAYEY SILT:** Loose to compact, moist, grey to light brown in depth.	1.83 – 104.50			SS4	2	17		<0.1	
					SS5	9	9		<0.1	
10.0 / 3.0	**END OF BOREHOLE**	3.04								

Combustible Soil Vapours (ppm): 10, 30, 50, 70, 90
ISOBUTYLENE (ppm): 200, 600, 1000, 1400, 1800

EASTING: 0426533
NORTHING: 5015458
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.54 m
TOP OF RISER ELEVATION: N/A
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: N/A

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW29

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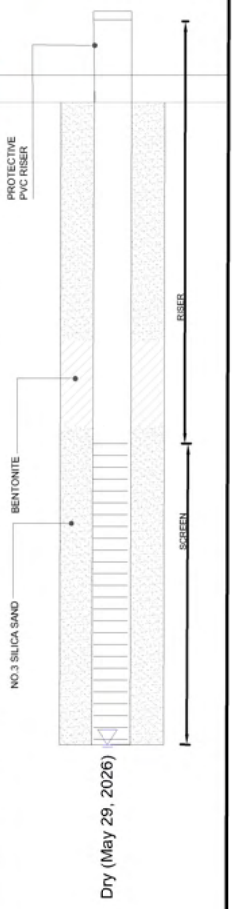
PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT / M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) 10 30 50 70 90 / ISOBUTYLENE (ppm) 200 600 1000 1400 1800
0.0 / 0.0		107.51							
0.0	**LOAM:** Silty, presence of organics and gravel, becoming clayey in depth, loose to compact, moist, brown.	0.00			SS1	9	25	OC Pesticides Inorganics Heavy Metals (Hg & CrVI)	<0.1
3.0 / 1.0					SS2	8	71	VOC PHC	<0.1
5.0					SS3	4	37	PAH	<0.1
7.0 / 2.0					SS4	3	50		<0.1
8.0		105.08							
9.0	**CLAYEY SILT:** Loose to very loose grey, moist.	2.43			SS5	1	67		<0.1
10.0 / 3.0		104.47							
	END OF BOREHOLE	3.04							
13.0 / 4.0									
17.0 / 5.0									
20.0 / 6.0									

MONITORING WELL DETAILS



EASTING: 0426509
NORTHING: 5015500
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.95 m
TOP OF RISER ELEVATION: 108.51 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: 51 mm

NOTES:
bgs: Below Grourd Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW30

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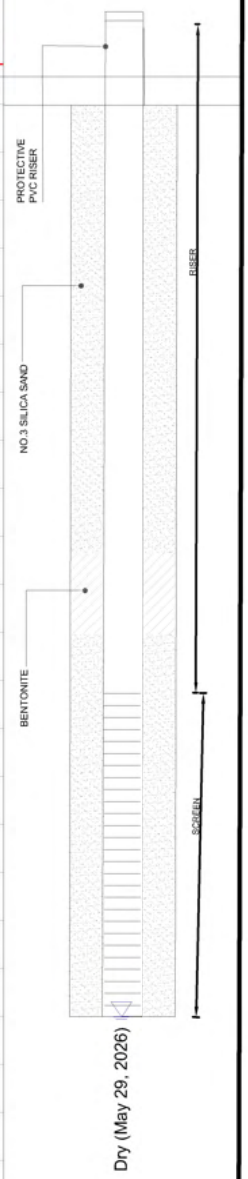
PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) / ISOBUTYLENE (ppm)
0.0	0.0		108.29							
0.0		**LOAM:** Traces of organics, traces of gravel, loose, moist, brown.	0.00							
						SS1	4	63		<0.1
			107.68							
		SILTY CLAY: Soft to very soft, moist, brown to brown-grey, presences of rock in basal part of borehole, at termination.	0.61							
						SS2	6	67		<0.1
	1.0									
						SS3	3	58		<0.1
	2.0									
						SS4	3	25	VOC PHC	<0.1
						SS5	1	50	PAH Heavy Metals (Hg & CrVI)	<0.1
	3.0									
						SS6	0	17		<0.1
						SS7	39	0		<0.1
	4.0		104.02							
14.0		**END OF BOREHOLE**	4.27							
	5.0									
	6.0									

Combustible Soil Vapours (ppm): 10 30 50 70 90
ISOBUTYLENE (ppm): 200 600 1000 1400 1800

MONITORING WELL DETAILS



EASTING: 0426706
NORTHING: 5015671
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 108.29 m
TOP OF RISER ELEVATION: 109.17 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: 51 mm

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW31

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www.lrl.ca (613) 842-9434

PROJECT NO.: 240720
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
DATE: MAY 26, 2026

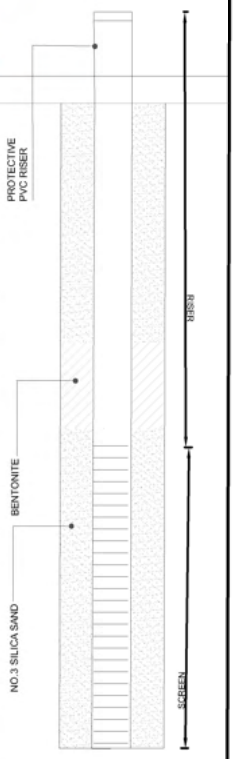
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm) / ISOBUTYLENE (ppm)
0.0	0.0		108.30							
		LOAM: Clayey, presence of organics, compact, moist, brown.	0.00			SS1	10	17		<0.1
			107.69							
		SILTY CLAY: Soft, moist to saturated at approximately 2.1 m below grade, presence of rock in basal part of borehole, at termination, traces of dark brown loam between 2.4 and 3.0 m, brown to grey at 2.4 m below grade.	0.61			SS2	3	71		<0.1
						SS3	8	50	VOC PHC	<0.1
						SS4	3	63	PAH Heavy Metals (Hg & CrVI)	<0.1
						SS5	1	54		<0.1
10.0	3.0	**END OF BOREHOLE**	105.26 / 3.04							

Combustible Soil Vapours (ppm): 10 30 50 70 90
ISOBUTYLENE (ppm): 200 600 1000 1400 1800

MONITORING WELL DETAILS



EASTING: 0426758
NORTHING: 5015618
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 108.30 m
TOP OF RISER ELEVATION: 109.32 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: 51 mm

NOTES:
bgs: Below Grourd Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

BOREHOLE LOG: MW32

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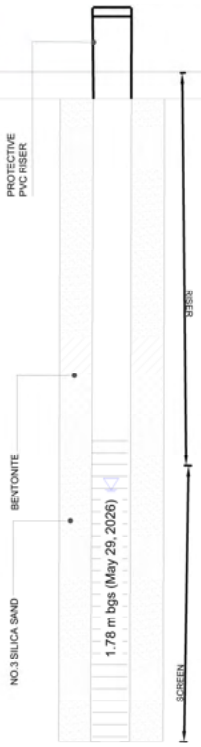
PROJECT NO.: 240720
PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
CLIENT: PALLADIUM RESORT DEVELOPMENT LIMITED PARTNERSHIP
LOCATION: 2775 & 2785 PALLADIUM DRIVE; AND BLOCK 244 PLAN 4M 1687, OTTAWA, ONTARIO
DATE: MAY 26, 2026
FIELD PERSONNEL: ERIC LAVERGNE

DRILLER: DOWNING DRILLING LTD.
DRILLING EQUIPMENT: TRACK MOUNTED CME
DRILLING METHOD: HOLLOW STEM AUGER & SPLIT SPOONS

DEPTH (FT)	DEPTH (M)	SOIL DESCRIPTION	ELEV./DEPTH (m)	LITHOLOGY	TYPE	SAMPLE NUMBER	N OR RQD (%)	RECOVERY (%)	LABORATORY ANALYSIS	Combustible Soil Vapours (ppm)	ISOBUTYLENE (ppm)
0.0	0.0		107.58								
		LOAM: Silty, presence of organics, becoming clayey in depth, loose, moist, brown.	0.00			SS1	7	75		<0.1	
1.0											
2.0						SS2	5	71		<0.1	
3.0	1.0		106.37								
4.0		**SILTY CLAY:** Soft, moist to saturated at approximately 1.7 m below grade, presence of rock in basal part of borehole, at termination, brown.	1.21			SS3	4	75	VOC PHC	<0.1	
5.0											
6.0						SS4	7	75	PAH Heavy Metals (Hg & CrVI)	<0.1	
7.0	2.0										
8.0						SS5	50+	8		<0.1	
9.0											
10.0	3.0	**END OF BOREHOLE**	104.54 3.04								
11.0											
12.0											
13.0	4.0										
14.0											
15.0											
16.0											
17.0	5.0										
18.0											
19.0											
20.0	6.0										

MONITORING WELL DETAILS



EASTING: 0426598
NORTHING: 5015512
SITE DATUM: GEODETIC BENCHMARK ESTABLISHED AT THE TOP OF THE FIRE HYDRANT SPINDLE, LOCATED TO THE EAST OF THE SITE ALONG PALLADIUM DRIVE (109.04 M AMSL).
GROUNDSURFACE ELEVATION: 107.58 m
TOP OF RISER ELEVATION: 108.51 m
HOLE DIAMETER: 203/96 mm
MONITORING WELL DIAMETER: 51 mm

NOTES:
bgs: Below Ground Surface
VOC: Volatile Organic Compounds
PHC: Petroleum Hydrocarbons
PAH: Polycyclic Aromatic Hydrocarbons
N/A: Not applicable

APPENDIX B

Certificates of Laboratory Analysis

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Certificate of Analysis

LRL Associates Ltd.
5430 Canotek Road
Ottawa, ON K1J 9G2
Attn: Eric Lavergne

Client PO:
Project: 240720
Custody: 77409

Report Date: 14-Apr-2025
Order Date: 8-Apr-2025

Order #: 2515160

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2515160-01	12-SS1
2515160-02	12-SS2
2515160-03	2-SS1
2515160-04	2-SS2
2515160-05	7-SS1
2515160-06	7-SS2
2515160-07	11-SS1
2515160-08	11-SS2
2515160-09	10-SS1
2515160-10	10-SS2

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	9-Apr-25	9-Apr-25
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	9-Apr-25	10-Apr-25
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	9-Apr-25	9-Apr-25
Conductivity	MOE E3138 - probe @25 °C, water ext	9-Apr-25	9-Apr-25
Cyanide, free	MOE E3015 - Auto Colour, water extraction	9-Apr-25	9-Apr-25
Mercury by CVAA	EPA 7471B - CVAA, digestion	9-Apr-25	9-Apr-25
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	9-Apr-25	9-Apr-25
PHC F1	CWS Tier 1 - P&T GC-FID	9-Apr-25	10-Apr-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	8-Apr-25	10-Apr-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	9-Apr-25	9-Apr-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	9-Apr-25	10-Apr-25
REG 153: Pesticides, OC	EPA 8081B - GC-ECD	9-Apr-25	10-Apr-25
SAR	Calculated	9-Apr-25	9-Apr-25
Solids, %	CWS Tier 1 - Gravimetric	10-Apr-25	14-Apr-25

	Client ID:	12-SS1	12-SS2	2-SS1	2-SS2	-	-
	Sample Date:	07-Apr-25 12:00	07-Apr-25 12:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-01	2515160-02	2515160-03	2515160-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	76.8	80.4	84.0	88.8	-	-
General Inorganics							
SAR	0.01 N/A	-	0.31	-	0.10	-	-
Conductivity	5 uS/cm	-	231	-	202	-	-
Cyanide, free	0.03 ug/g	-	<0.03	-	<0.03	-	-
pH	0.05 pH Units	-	7.47	-	7.53	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	-	<1.0	-	-
Arsenic	1.0 ug/g	-	4.6	-	3.3	-	-
Barium	1.0 ug/g	-	220	-	116	-	-
Beryllium	0.5 ug/g	-	0.8	-	<0.5	-	-
Boron, available	0.5 ug/g	-	<0.5	-	<0.5	-	-
Boron	5.0 ug/g	-	8.6	-	5.1	-	-
Cadmium	0.5 ug/g	-	<0.5	-	<0.5	-	-
Chromium (VI)	0.2 ug/g	-	0.4	-	<0.2	-	-
Chromium	5.0 ug/g	-	54.0	-	36.4	-	-
Cobalt	1.0 ug/g	-	15.1	-	9.4	-	-
Copper	5.0 ug/g	-	30.5	-	16.3	-	-
Lead	1.0 ug/g	-	9.0	-	5.5	-	-
Mercury	0.1 ug/g	-	<0.1	-	<0.1	-	-
Molybdenum	1.0 ug/g	-	<1.0	-	<1.0	-	-
Nickel	5.0 ug/g	-	31.2	-	23.1	-	-
Selenium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Silver	0.3 ug/g	-	<0.3	-	<0.3	-	-
Thallium	1.0 ug/g	-	<1.0	-	<1.0	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	12-SS1	12-SS2	2-SS1	2-SS2	-	-
	Sample Date:	07-Apr-25 12:00	07-Apr-25 12:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-01	2515160-02	2515160-03	2515160-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Vanadium	10.0 ug/g	-	76.2	-	40.6	-	-
Zinc	20.0 ug/g	-	77.9	-	27.2	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene	0.05 ug/g	<0.05	-	<0.05	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene-d8	Surrogate	104%	-	106%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	-	-
F3 PHCs (C16-C34)	8 ug/g	20 [2]	-	12	-	-	-
F4 PHCs (C34-C50)	6 ug/g	33 [2]	-	20	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-

	Client ID:	12-SS1	12-SS2	2-SS1	2-SS2	-	-
	Sample Date:	07-Apr-25 12:00	07-Apr-25 12:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-01	2515160-02	2515160-03	2515160-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Fluorene	0.02 ug/g	-	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	-	-	-	-
Pyrene	0.02 ug/g	-	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	-	119%	-	-	-	-
Terphenyl-d14	Surrogate	-	118%	-	-	-	-

	Client ID:	7-SS1	7-SS2	11-SS1	11-SS2	-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-05	2515160-06	2515160-07	2515160-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	82.1	83.3	81.0	79.4	-	-
General Inorganics							
SAR	0.01 N/A	-	0.23	-	0.48	-	-
Conductivity	5 uS/cm	-	239	-	240	-	-
Cyanide, free	0.03 ug/g	-	<0.03	-	<0.03	-	-
pH	0.05 pH Units	-	7.32	-	7.05	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	-	<1.0	-	-
Arsenic	1.0 ug/g	-	3.7	-	3.9	-	-
Barium	1.0 ug/g	-	190	-	141	-	-
Beryllium	0.5 ug/g	-	0.6	-	0.6	-	-
Boron	5.0 ug/g	-	8.1	-	8.3	-	-
Boron, available	0.5 ug/g	-	<0.5	-	0.6	-	-
Cadmium	0.5 ug/g	-	<0.5	-	<0.5	-	-
Chromium (VI)	0.2 ug/g	-	<0.2	-	<0.2	-	-
Chromium	5.0 ug/g	-	32.5	-	38.9	-	-
Cobalt	1.0 ug/g	-	8.9	-	9.5	-	-
Copper	5.0 ug/g	-	16.5	-	16.6	-	-
Lead	1.0 ug/g	-	9.4	-	7.4	-	-
Mercury	0.1 ug/g	-	<0.1	-	<0.1	-	-
Molybdenum	1.0 ug/g	-	<1.0	-	<1.0	-	-
Nickel	5.0 ug/g	-	16.6	-	18.7	-	-
Selenium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Silver	0.3 ug/g	-	<0.3	-	<0.3	-	-
Thallium	1.0 ug/g	-	<1.0	-	<1.0	-	-

	Client ID:	7-SS1	7-SS2	11-SS1	11-SS2	-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-05	2515160-06	2515160-07	2515160-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Vanadium	10.0 ug/g	-	46.4	-	55.0	-	-
Zinc	20.0 ug/g	-	53.2	-	56.7	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene	0.05 ug/g	<0.05	-	<0.05	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene-d8	Surrogate	102%	-	102%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	-	-
F3 PHCs (C16-C34)	8 ug/g	14	-	12	-	-	-
F4 PHCs (C34-C50)	6 ug/g	21	-	17	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	<0.01	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	-	<0.01	-	-	-	-
alpha-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
gamma-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
o,p'-DDD	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDD	0.02 ug/g	-	<0.02	-	-	-	-
DDD	0.02 ug/g	-	<0.02	-	-	-	-

	Client ID:	7-SS1	7-SS2	11-SS1	11-SS2	-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00	07-Apr-25 09:00		
	Sample ID:	2515160-05	2515160-06	2515160-07	2515160-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
o,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
DDE	0.01 ug/g	-	<0.01	-	-	-	-
o,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
DDT	0.01 ug/g	-	<0.01	-	-	-	-
Dieldrin	0.02 ug/g	-	<0.02	-	-	-	-
Endrin	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I	0.01 ug/g	-	<0.01	-	-	-	-
Endosulfan II	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I/II	0.02 ug/g	-	<0.02	-	-	-	-
Heptachlor	0.01 ug/g	-	<0.01	-	-	-	-
Heptachlor epoxide	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobenzene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachloroethane	0.01 ug/g	-	<0.01	-	-	-	-
Methoxychlor	0.01 ug/g	-	<0.01	-	-	-	-
Decachlorobiphenyl	Surrogate	-	56.0%	-	-	-	-

	Client ID:	10-SS1	10-SS2			-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00				
	Sample ID:	2515160-09	2515160-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	83.4	83.9	-	-	-	-
General Inorganics							
SAR	0.01 N/A	-	0.62	-	-	-	-
Conductivity	5 uS/cm	-	292	-	-	-	-
Cyanide, free	0.03 ug/g	-	<0.03	-	-	-	-
pH	0.05 pH Units	-	6.79	-	-	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	-	-	-	-
Arsenic	1.0 ug/g	-	4.2	-	-	-	-
Barium	1.0 ug/g	-	204	-	-	-	-
Beryllium	0.5 ug/g	-	0.7	-	-	-	-
Boron, available	0.5 ug/g	-	0.6	-	-	-	-
Boron	5.0 ug/g	-	9.2	-	-	-	-
Cadmium	0.5 ug/g	-	<0.5	-	-	-	-
Chromium (VI)	0.2 ug/g	-	<0.2	-	-	-	-
Chromium	5.0 ug/g	-	40.5	-	-	-	-
Cobalt	1.0 ug/g	-	10.2	-	-	-	-
Copper	5.0 ug/g	-	20.5	-	-	-	-
Lead	1.0 ug/g	-	11.3	-	-	-	-
Mercury	0.1 ug/g	-	<0.1	-	-	-	-
Molybdenum	1.0 ug/g	-	<1.0	-	-	-	-
Nickel	5.0 ug/g	-	20.9	-	-	-	-
Selenium	1.0 ug/g	-	<1.0	-	-	-	-
Silver	0.3 ug/g	-	<0.3	-	-	-	-
Thallium	1.0 ug/g	-	<1.0	-	-	-	-

	Client ID:	10-SS1	10-SS2			-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00				
	Sample ID:	2515160-09	2515160-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Metals							
Uranium	1.0 ug/g	-	<1.0	-	-	-	-
Vanadium	10.0 ug/g	-	55.9	-	-	-	-
Zinc	20.0 ug/g	-	67.2	-	-	-	-
Volatiles							
Benzene	0.02 ug/g	<0.02	-	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-
Toluene-d8	Surrogate	108%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-

	Client ID:	10-SS1	10-SS2			-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00				
	Sample ID:	2515160-09	2515160-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Semi-Volatiles							
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Fluorene	0.02 ug/g	-	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	-	-	-	-
Pyrene	0.02 ug/g	-	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	-	89.7%	-	-	-	-
Terphenyl-d14	Surrogate	-	89.1%	-	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	<0.01	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	-	<0.01	-	-	-	-
alpha-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
gamma-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
o,p'-DDD	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDD	0.02 ug/g	-	<0.02	-	-	-	-
DDD	0.02 ug/g	-	<0.02	-	-	-	-
o,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
DDE	0.01 ug/g	-	<0.01	-	-	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	10-SS1	10-SS2			-	-
	Sample Date:	07-Apr-25 09:00	07-Apr-25 09:00				
	Sample ID:	2515160-09	2515160-10				
	Matrix:	Soil	Soil				
	MDL/Units						
Pesticides, OC							
o,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
DDT	0.01 ug/g	-	<0.01	-	-	-	-
Dieldrin	0.02 ug/g	-	<0.02	-	-	-	-
Endrin	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I	0.01 ug/g	-	<0.01	-	-	-	-
Endosulfan II	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I/II	0.02 ug/g	-	<0.02	-	-	-	-
Heptachlor	0.01 ug/g	-	<0.01	-	-	-	-
Heptachlor epoxide	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobenzene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachloroethane	0.01 ug/g	-	<0.01	-	-	-	-
Methoxychlor	0.01 ug/g	-	<0.01	-	-	-	-
Decachlorobiphenyl	Surrogate	-	56.0%	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Pesticides, OC								
Aldrin	ND	0.01	ug/g					
gamma-BHC (Lindane)	ND	0.01	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
alpha-Chlordane	ND	0.01	ug/g					
gamma-Chlordane	ND	0.01	ug/g					
Chlordane	ND	0.01	ug/g					
o,p'-DDD	ND	0.01	ug/g					
p,p'-DDD	ND	0.02	ug/g					
DDD	ND	0.02	ug/g					
o,p'-DDE	ND	0.01	ug/g					
p,p'-DDE	ND	0.01	ug/g					
DDE	ND	0.01	ug/g					
o,p'-DDT	ND	0.01	ug/g					
p,p'-DDT	ND	0.01	ug/g					
DDT	ND	0.01	ug/g					
Dieldrin	ND	0.02	ug/g					
Endrin	ND	0.02	ug/g					
Endosulfan I	ND	0.01	ug/g					
Endosulfan II	ND	0.02	ug/g					
Endosulfan I/II	ND	0.02	ug/g					
Heptachlor	ND	0.01	ug/g					
Heptachlor epoxide	ND	0.01	ug/g					
Hexachlorobenzene	ND	0.01	ug/g					
Hexachlorobutadiene	ND	0.01	ug/g					
Hexachloroethane	ND	0.01	ug/g					
Methoxychlor	ND	0.01	ug/g					
Surrogate: Decachlorobiphenyl	*0.0276*		*%*	*55.3*	*50-140*			
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.835*		*%*	*62.6*	*50-140*			
Surrogate: Terphenyl-d14	*0.898*		*%*	*67.4*	*50-140*			
Volatiles								
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	*7.79*		*%*	*97.4*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.22	0.01	N/A	0.22			0.3	30	
Conductivity	201	5	uS/cm	196			2.3	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.58	0.05	pH Units	7.61			0.4	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	3.4	1.0	ug/g	3.2			4.4	30	
Barium	80.7	1.0	ug/g	87.2			7.7	30	
Beryllium	ND	0.5	ug/g	0.5			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	10.4	5.0	ug/g	10.4			0.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	24.0	5.0	ug/g	23.7			1.4	30	
Cobalt	6.7	1.0	ug/g	6.7			0.1	30	
Copper	12.6	5.0	ug/g	12.8			1.3	30	
Lead	12.6	1.0	ug/g	12.9			1.9	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	12.8	5.0	ug/g	12.9			0.9	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	33.8	10.0	ug/g	33.3			1.4	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	67.5	20.0	ug/g	67.3			0.3	30	
Pesticides, OC									
Aldrin	ND	0.01	ug/g	ND			NC	40	
gamma-BHC (Lindane)	ND	0.01	ug/g	ND			NC	40	
alpha-Chlordane	ND	0.01	ug/g	ND			NC	40	
gamma-Chlordane	ND	0.01	ug/g	ND			NC	40	
o,p'-DDD	ND	0.01	ug/g	ND			NC	40	
p,p'-DDD	ND	0.02	ug/g	ND			NC	40	
o,p'-DDE	ND	0.01	ug/g	ND			NC	40	
p,p'-DDE	ND	0.01	ug/g	ND			NC	40	
o,p'-DDT	ND	0.01	ug/g	ND			NC	40	
p,p'-DDT	ND	0.01	ug/g	ND			NC	40	
Dieldrin	ND	0.02	ug/g	ND			NC	40	
Endrin	ND	0.02	ug/g	ND			NC	40	
Endosulfan I	ND	0.01	ug/g	ND			NC	40	
Endosulfan II	ND	0.02	ug/g	ND			NC	40	
Heptachlor	ND	0.01	ug/g	ND			NC	40	
Heptachlor epoxide	ND	0.01	ug/g	ND			NC	40	
Hexachlorobenzene	ND	0.01	ug/g	ND			NC	40	
Hexachlorobutadiene	ND	0.01	ug/g	ND			NC	40	
Hexachloroethane	ND	0.01	ug/g	ND			NC	40	
Methoxychlor	ND	0.01	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.0328*		*%*		*54.6*	*50-140*			
Physical Characteristics									
% Solids	81.1	0.1	% by Wt.	81.0			0.1	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.023	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	0.103	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	0.084	0.02	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	0.115	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	0.044	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	0.044	0.02	ug/g	ND			NC	40	
Chrysene	0.106	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.235	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.053	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.063	0.02	ug/g	ND			NC	40	
Pyrene	0.151	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.12*		*%*		*73.5*	*50-140*			
Surrogate: Terphenyl-d14	*1.22*		*%*		*79.8*	*50-140*			
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	*12.2*		*%*		*109*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.294	0.03	ug/g	ND	98.1	70-130			
Hydrocarbons									
F1 PHCs (C6-C10)	175	7	ug/g	ND	102	85-115			
F2 PHCs (C10-C16)	105	4	ug/g	ND	116	60-140			
F3 PHCs (C16-C34)	277	8	ug/g	ND	124	60-140			
F4 PHCs (C34-C50)	180	6	ug/g	ND	127	60-140			
Metals									
Arsenic	52.4	1.0	ug/g	1.3	102	70-130			
Barium	82.8	1.0	ug/g	34.9	95.8	70-130			
Beryllium	50.6	0.5	ug/g	ND	101	70-130			
Boron, available	4.57	0.5	ug/g	ND	91.3	60-140			
Boron	48.0	5.0	ug/g	ND	87.6	70-130			
Cadmium	49.9	0.5	ug/g	ND	99.6	70-130			
Chromium (VI)	4.9	0.2	ug/g	ND	98.0	66-118			
Chromium	64.2	5.0	ug/g	9.5	109	70-130			
Cobalt	55.7	1.0	ug/g	2.7	106	70-130			
Copper	54.6	5.0	ug/g	5.1	99.0	70-130			
Lead	54.5	1.0	ug/g	5.2	98.7	70-130			
Mercury	1.56	0.1	ug/g	ND	104	70-130			
Molybdenum	49.3	1.0	ug/g	ND	98.3	70-130			
Nickel	56.4	5.0	ug/g	5.2	102	70-130			
Selenium	48.4	1.0	ug/g	ND	96.3	70-130			
Silver	39.0	0.3	ug/g	ND	78.0	70-130			
Thallium	47.5	1.0	ug/g	ND	94.9	70-130			
Uranium	48.7	1.0	ug/g	ND	97.0	70-130			
Vanadium	67.7	10.0	ug/g	13.3	109	70-130			
Zinc	69.6	20.0	ug/g	26.9	85.4	70-130			
Pesticides, OC									
Aldrin	0.20	0.01	ug/g	ND	83.2	50-140			
gamma-BHC (Lindane)	0.18	0.01	ug/g	ND	75.9	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
alpha-Chlordane	0.18	0.01	ug/g	ND	75.2	50-140			
gamma-Chlordane	0.18	0.01	ug/g	ND	74.6	50-140			
o,p'-DDD	0.25	0.01	ug/g	ND	105	50-140			
p,p'-DDD	0.21	0.02	ug/g	ND	88.6	50-140			
o,p'-DDE	0.21	0.01	ug/g	ND	87.6	50-140			
p,p'-DDE	0.19	0.01	ug/g	ND	79.2	50-140			
o,p'-DDT	0.28	0.01	ug/g	ND	115	50-140			
p,p'-DDT	0.21	0.01	ug/g	ND	88.1	50-140			
Endosulfan I	0.19	0.01	ug/g	ND	77.7	50-140			
Endosulfan II	0.12	0.02	ug/g	ND	51.0	50-140			
Heptachlor	0.21	0.01	ug/g	ND	88.8	50-140			
Heptachlor epoxide	0.20	0.01	ug/g	ND	83.5	50-140			
Hexachlorobenzene	0.17	0.01	ug/g	ND	70.0	50-140			
Hexachlorobutadiene	0.18	0.01	ug/g	ND	76.5	50-140			
Hexachloroethane	0.17	0.01	ug/g	ND	70.4	50-140			
Methoxychlor	0.20	0.01	ug/g	ND	83.1	50-140			
Surrogate: Decachlorobiphenyl	*0.0327*		*%*		*54.4*	*50-140*			
Semi-Volatiles									
Acenaphthene	0.145	0.02	ug/g	ND	75.6	50-140			
Acenaphthylene	0.126	0.02	ug/g	ND	66.1	50-140			
Anthracene	0.141	0.02	ug/g	ND	73.6	50-140			
Benzo [a] anthracene	0.161	0.02	ug/g	ND	84.1	50-140			
Benzo [a] pyrene	0.119	0.02	ug/g	ND	62.2	50-140			
Benzo [b] fluoranthene	0.162	0.02	ug/g	ND	84.8	50-140			
Benzo [g,h,i] perylene	0.152	0.02	ug/g	ND	79.5	50-140			
Benzo [k] fluoranthene	0.150	0.02	ug/g	ND	78.6	50-140			
Chrysene	0.173	0.02	ug/g	ND	90.3	50-140			
Dibenzo [a,h] anthracene	0.156	0.02	ug/g	ND	81.8	50-140			
Fluoranthene	0.195	0.02	ug/g	ND	102	50-140			
Fluorene	0.152	0.02	ug/g	ND	79.3	50-140			
Indeno [1,2,3-cd] pyrene	0.155	0.02	ug/g	ND	81.0	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1-Methylnaphthalene	0.139	0.02	ug/g	ND	72.7	50-140			
2-Methylnaphthalene	0.197	0.02	ug/g	ND	103	50-140			
Naphthalene	0.134	0.01	ug/g	ND	70.1	50-140			
Phenanthrene	0.171	0.02	ug/g	ND	89.5	50-140			
Pyrene	0.159	0.02	ug/g	ND	83.0	50-140			
Surrogate: 2-Fluorobiphenyl	*1.20*		*%*		*78.6*	*50-140*			
Surrogate: Terphenyl-d14	*1.26*		*%*		*82.7*	*50-140*			
Volatiles									
Benzene	3.75	0.02	ug/g	ND	93.7	60-130			
Ethylbenzene	3.51	0.05	ug/g	ND	87.8	60-130			
Toluene	3.01	0.05	ug/g	ND	75.3	60-130			
m,p-Xylenes	6.65	0.05	ug/g	ND	83.1	60-130			
o-Xylene	3.43	0.05	ug/g	ND	85.8	60-130			
Surrogate: Toluene-d8	*7.86*		*%*		*98.2*	*50-140*			

Qualifier Notes:

Login Qualifiers :

Container and COC sample IDs don't match. Report includes container IDs as directed by client. -

Applies to Samples: 10-SS1, 10-SS2

Sample Qualifiers :

2: Some peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup. Results may be biased high.

Sample Data Revisions:

None

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES

Paracel ID: 2515160

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Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
25/5/60	№ 77409

Client Name: KRL Associates Ltd	Project Ref: 240720	Page __ of __
Contact Name: Eric Lavergne	Quote #:	Turnaround Time
Address: 5430 Canotek Road	PO #:	☐ 1 day ☐ 3 day
	E-mail: elavergne@krl.ca	☐ 2 day ☒ Regular
Telephone: 613 842 3434		Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☐ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: ___
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	Required Analysis: BTEX	PHC	PAH	Metals & Inorganics	O Pesticides
1	BH17-SS1	S		2		Apr 7	PM	X	X			
2	17-SS2						PM			X	X	
3	2-SS1						AM	X	X			
4	2-SS2										X	
5	7-SS1							X	X			
6	7-SS2										X	X
7	11-SS1							X	X			
8	11-SS2										X	
9	14-SS1							X	X			
10	14-SS2										X	X

Comments: Full Metals please

Method of Delivery: Drop Box

Relinquished By (Sign):	Received at Depot: KB 8:30	Received at Lab: JM	Verified By:
Relinquished By (Print): Eric Lavergne	Date/Time: April 7th	Date/Time: APR 8/25 1043	Date/Time: Apr 8 11:23
Date/Time: Apr 8, 2025	Temperature: 14.5 °C	Temperature: 15.7 °C	pH Verified: ☐ By: MB

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Certificate of Analysis

LRL Associates Ltd.
5430 Canotek Road
Ottawa, ON K1J 9G2
Attn: Jessica Arthurs

Client PO:
Project: 240720
Custody: 148263

Report Date: 14-Apr-2025
Order Date: 8-Apr-2025

Order #: 2515164

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2515164-01	BH9-SS1
2515164-02	BH9-SS2
2515164-03	BH3-SS1
2515164-04	BH3-SS2
2515164-05	BH5-SS1
2515164-06	BH5-SS2
2515164-07	BH1-SS1
2515164-09	BH14-SS1
2515164-10	BH14-SS2

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	14-Apr-25	14-Apr-25
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	9-Apr-25	9-Apr-25
Conductivity	MOE E3138 - probe @25 °C, water ext	9-Apr-25	9-Apr-25
Cyanide, free	MOE E3015 - Auto Colour, water extraction	9-Apr-25	9-Apr-25
Mercury by CVAA	EPA 7471B - CVAA, digestion	9-Apr-25	9-Apr-25
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	9-Apr-25	9-Apr-25
PHC F1	CWS Tier 1 - P&T GC-FID	9-Apr-25	10-Apr-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	8-Apr-25	10-Apr-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	9-Apr-25	9-Apr-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	9-Apr-25	10-Apr-25
REG 153: Pesticides, OC	EPA 8081B - GC-ECD	9-Apr-25	10-Apr-25
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	9-Apr-25	10-Apr-25
SAR	Calculated	9-Apr-25	9-Apr-25
Solids, %	CWS Tier 1 - Gravimetric	10-Apr-25	14-Apr-25

	Client ID:	BH9-SS1	BH9-SS2	BH3-SS1	BH3-SS2	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	04-Apr-25 12:00		
	Sample ID:	2515164-01	2515164-02	2515164-03	2515164-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	78.5	78.5	84.6	84.8	-	-
General Inorganics							
SAR	0.01 N/A	-	0.12	-	0.50	-	-
Conductivity	5 uS/cm	-	206	-	278	-	-
Cyanide, free	0.03 ug/g	-	<0.03	-	<0.03	-	-
pH	0.05 pH Units	-	7.27	-	6.96	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	-	<1.0	-	-
Arsenic	1.0 ug/g	-	3.5	-	3.2	-	-
Barium	1.0 ug/g	-	98.2	-	104	-	-
Beryllium	0.5 ug/g	-	0.5	-	<0.5	-	-
Boron	5.0 ug/g	-	<5.0	-	6.4	-	-
Cadmium	0.5 ug/g	-	<0.5	-	<0.5	-	-
Chromium	5.0 ug/g	-	30.8	-	28.6	-	-
Chromium (VI)	0.2 ug/g	-	<0.2	-	<0.2	-	-
Cobalt	1.0 ug/g	-	7.6	-	7.4	-	-
Copper	5.0 ug/g	-	15.0	-	11.0	-	-
Lead	1.0 ug/g	-	6.0	-	7.2	-	-
Mercury	0.1 ug/g	-	<0.1	-	<0.1	-	-
Molybdenum	1.0 ug/g	-	<1.0	-	<1.0	-	-
Nickel	5.0 ug/g	-	15.8	-	12.5	-	-
Selenium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Silver	0.3 ug/g	-	<0.3	-	<0.3	-	-
Thallium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Uranium	1.0 ug/g	-	<1.0	-	<1.0	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	BH9-SS1	BH9-SS2	BH3-SS1	BH3-SS2	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	04-Apr-25 12:00		
	Sample ID:	2515164-01	2515164-02	2515164-03	2515164-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	-	43.3	-	40.7	-	-
Zinc	20.0 ug/g	-	43.9	-	43.2	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	<0.50	-	-	-
Benzene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Bromoform	0.05 ug/g	<0.05	-	<0.05	-	-	-
Bromomethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	<0.05	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Chloroform	0.05 ug/g	<0.05	-	<0.05	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	<0.05	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	<0.05	-	-	-

	Client ID:	BH9-SS1	BH9-SS2	BH3-SS1	BH3-SS2	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	04-Apr-25 12:00		
	Sample ID:	2515164-01	2515164-02	2515164-03	2515164-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	<0.05	-	-	-
Hexane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	<0.50	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	<0.50	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	<0.05	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	<0.05	-	-	-
Styrene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	<0.02	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene-d8	Surrogate	105%	-	106%	-	-	-
4-Bromofluorobenzene	Surrogate	107%	-	105%	-	-	-
Dibromofluoromethane	Surrogate	86.5%	-	113%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	BH9-SS1	BH9-SS2	BH3-SS1	BH3-SS2	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	04-Apr-25 12:00		
	Sample ID:	2515164-01	2515164-02	2515164-03	2515164-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	-	-
F3 PHCs (C16-C34)	8 ug/g	16	-	38	-	-	-
F4 PHCs (C34-C50)	6 ug/g	23	-	43	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Fluorene	0.02 ug/g	-	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	-	-	-	-
Pyrene	0.02 ug/g	-	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	-	93.8%	-	-	-	-
Terphenyl-d14	Surrogate	-	93.0%	-	-	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	BH5-SS1	BH5-SS2	BH1-SS1	BH14-SS1	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	03-Apr-25 09:00		
	Sample ID:	2515164-05	2515164-06	2515164-07	2515164-09		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	83.0	81.5	78.5	74.1	-	-
General Inorganics							
SAR	0.01 N/A	0.13	-	-	-	-	-
Conductivity	5 uS/cm	246	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.21	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	<1.0	-	-	-
Arsenic	1.0 ug/g	4.0	-	3.8	-	-	-
Barium	1.0 ug/g	151	-	126	-	-	-
Beryllium	0.5 ug/g	0.7	-	0.6	-	-	-
Boron	5.0 ug/g	6.6	-	5.2	-	-	-
Cadmium	0.5 ug/g	<0.5	-	<0.5	-	-	-
Chromium	5.0 ug/g	34.8	-	31.4	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	<0.2	-	-	-
Cobalt	1.0 ug/g	10.3	-	8.7	-	-	-
Copper	5.0 ug/g	15.1	-	11.9	-	-	-
Lead	1.0 ug/g	21.8	-	13.7	-	-	-
Mercury	0.1 ug/g	<0.1	-	<0.1	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	<1.0	-	-	-
Nickel	5.0 ug/g	18.4	-	15.9	-	-	-
Selenium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Silver	0.3 ug/g	<0.3	-	<0.3	-	-	-
Thallium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Uranium	1.0 ug/g	<1.0	-	<1.0	-	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	BH5-SS1	BH5-SS2	BH1-SS1	BH14-SS1	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	03-Apr-25 09:00		
	Sample ID:	2515164-05	2515164-06	2515164-07	2515164-09		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	53.8	-	53.8	-	-	-
Zinc	20.0 ug/g	63.9	-	61.9	-	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	<0.50	-	-	-
Benzene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Bromoform	0.05 ug/g	<0.05	-	<0.05	-	-	-
Bromomethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	<0.05	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Chloroform	0.05 ug/g	<0.05	-	<0.05	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	<0.05	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	<0.05	-	-	-

	Client ID:	BH5-SS1	BH5-SS2	BH1-SS1	BH14-SS1	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	03-Apr-25 09:00		
	Sample ID:	2515164-05	2515164-06	2515164-07	2515164-09		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	<0.05	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Hexane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	<0.50	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	<0.50	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	<0.05	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	<0.05	-	-	-
Styrene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Toluene	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	<0.05	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	<0.02	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	<0.05	-	-	-
Dibromofluoromethane	Surrogate	76.5%	-	87.1%	-	-	-
Toluene-d8	Surrogate	108%	-	107%	-	-	-
4-Bromofluorobenzene	Surrogate	106%	-	108%	-	-	-
Benzene	0.02 ug/g	-	-	-	<0.02	-	-
Ethylbenzene	0.05 ug/g	-	-	-	<0.05	-	-

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	BH5-SS1	BH5-SS2	BH1-SS1	BH14-SS1	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	03-Apr-25 09:00		
	Sample ID:	2515164-05	2515164-06	2515164-07	2515164-09		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Toluene	0.05 ug/g	-	-	-	<0.05	-	-
m,p-Xylenes	0.05 ug/g	-	-	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	-	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	-	-	<0.05	-	-
Toluene-d8	Surrogate	-	-	-	112%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g	27 [2]	-	29 [2]	12	-	-
F4 PHCs (C34-C50)	6 ug/g	38 [2]	-	41 [2]	25	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	<0.01	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	-	<0.01	-	-	-	-
alpha-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
gamma-Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
Chlordane	0.01 ug/g	-	<0.01	-	-	-	-
o,p'-DDD	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDD	0.02 ug/g	-	<0.02	-	-	-	-
DDD	0.02 ug/g	-	<0.02	-	-	-	-
o,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDE	0.01 ug/g	-	<0.01	-	-	-	-
DDE	0.01 ug/g	-	<0.01	-	-	-	-
o,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
p,p'-DDT	0.01 ug/g	-	<0.01	-	-	-	-
DDT	0.01 ug/g	-	<0.01	-	-	-	-

	Client ID:	BH5-SS1	BH5-SS2	BH1-SS1	BH14-SS1	-	-
	Sample Date:	03-Apr-25 12:00	03-Apr-25 12:00	04-Apr-25 12:00	03-Apr-25 09:00		
	Sample ID:	2515164-05	2515164-06	2515164-07	2515164-09		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Dieldrin	0.02 ug/g	-	<0.02	-	-	-	-
Endrin	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I	0.01 ug/g	-	<0.01	-	-	-	-
Endosulfan II	0.02 ug/g	-	<0.02	-	-	-	-
Endosulfan I/II	0.02 ug/g	-	<0.02	-	-	-	-
Heptachlor	0.01 ug/g	-	<0.01	-	-	-	-
Heptachlor epoxide	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobenzene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	-	<0.01	-	-	-	-
Hexachloroethane	0.01 ug/g	-	<0.01	-	-	-	-
Methoxychlor	0.01 ug/g	-	<0.01	-	-	-	-
Decachlorobiphenyl	Surrogate	-	51.3%	-	-	-	-

	Client ID:	BH14-SS2				-	-
	Sample Date:	03-Apr-25 09:00					
	Sample ID:	2515164-10					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	73.9	-	-	-	-	-
General Inorganics							
SAR	0.01 N/A	0.41	-	-	-	-	-
Conductivity	5 uS/cm	291	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.32	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	-	-
Arsenic	1.0 ug/g	3.8	-	-	-	-	-
Barium	1.0 ug/g	189	-	-	-	-	-
Beryllium	0.5 ug/g	0.8	-	-	-	-	-
Boron	5.0 ug/g	5.5	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-
Chromium	5.0 ug/g	62.2	-	-	-	-	-
Cobalt	1.0 ug/g	15.4	-	-	-	-	-
Copper	5.0 ug/g	31.4	-	-	-	-	-
Lead	1.0 ug/g	6.4	-	-	-	-	-
Mercury	0.1 ug/g	<0.1	-	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-
Nickel	5.0 ug/g	33.8	-	-	-	-	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-

	Client ID:	BH14-SS2				-	-
	Sample Date:	03-Apr-25 09:00					
	Sample ID:	2515164-10					
	Matrix:	Soil					
	MDL/Units						
Metals							
Vanadium	10.0 ug/g	77.4	-	-	-	-	-
Zinc	20.0 ug/g	71.5	-	-	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	-	-
Anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Chrysene	0.02 ug/g	<0.02	-	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Fluorene	0.02 ug/g	<0.02	-	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	-	-
Pyrene	0.02 ug/g	<0.02	-	-	-	-	-
2-Fluorobiphenyl	Surrogate	107%	-	-	-	-	-
Terphenyl-d14	Surrogate	106%	-	-	-	-	-
Pesticides, OC							

	Client ID:	BH14-SS2				-	-
	Sample Date:	03-Apr-25 09:00					
	Sample ID:	2515164-10					
	Matrix:	Soil					
	MDL/Units						
Pesticides, OC							
Aldrin	0.01 ug/g	<0.01	-	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	<0.01	-	-	-	-	-
alpha-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
gamma-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDD	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDD	0.02 ug/g	<0.02	-	-	-	-	-
DDD	0.02 ug/g	<0.02	-	-	-	-	-
o,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
DDE	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
DDT	0.01 ug/g	<0.01	-	-	-	-	-
Dieldrin	0.02 ug/g	<0.02	-	-	-	-	-
Endrin	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I	0.01 ug/g	<0.01	-	-	-	-	-
Endosulfan II	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I/II	0.02 ug/g	<0.02	-	-	-	-	-
Heptachlor	0.01 ug/g	<0.01	-	-	-	-	-
Heptachlor epoxide	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobenzene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachloroethane	0.01 ug/g	<0.01	-	-	-	-	-
Methoxychlor	0.01 ug/g	<0.01	-	-	-	-	-

	Client ID:	BH14-SS2				-	-
	Sample Date:	03-Apr-25 09:00					
	Sample ID:	2515164-10					
	Matrix:	Soil					
	MDL/Units						
Pesticides, OC							
Decachlorobiphenyl	Surrogate	54.0%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Pesticides, OC								
Aldrin	ND	0.01	ug/g					
gamma-BHC (Lindane)	ND	0.01	ug/g					
alpha-Chlordane	ND	0.01	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
gamma-Chlordane	ND	0.01	ug/g					
Chlordane	ND	0.01	ug/g					
o,p'-DDD	ND	0.01	ug/g					
p,p'-DDD	ND	0.02	ug/g					
DDD	ND	0.02	ug/g					
o,p'-DDE	ND	0.01	ug/g					
p,p'-DDE	ND	0.01	ug/g					
DDE	ND	0.01	ug/g					
o,p'-DDT	ND	0.01	ug/g					
p,p'-DDT	ND	0.01	ug/g					
DDT	ND	0.01	ug/g					
Dieldrin	ND	0.02	ug/g					
Endrin	ND	0.02	ug/g					
Endosulfan I	ND	0.01	ug/g					
Endosulfan II	ND	0.02	ug/g					
Endosulfan I/II	ND	0.02	ug/g					
Heptachlor	ND	0.01	ug/g					
Heptachlor epoxide	ND	0.01	ug/g					
Hexachlorobenzene	ND	0.01	ug/g					
Hexachlorobutadiene	ND	0.01	ug/g					
Hexachloroethane	ND	0.01	ug/g					
Methoxychlor	ND	0.01	ug/g					
Surrogate: Decachlorobiphenyl	*0.0276*		*%*	*55.3*	*50-140*			
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.835*		*%*	*62.6*	*50-140*			
Surrogate: Terphenyl-d14	*0.898*		*%*	*67.4*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*7.79*		*%*	*97.4*	*50-140*			
Surrogate: Dibromofluoromethane	*5.95*		*%*	*74.3*	*50-140*			
Surrogate: Toluene-d8	*7.79*		*%*	*97.4*	*50-140*			
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	*7.81*		*%*	*97.7*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.22	0.01	N/A	0.22			0.3	30	
Conductivity	201	5	uS/cm	196			2.3	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.58	0.05	pH Units	7.61			0.4	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	3.4	1.0	ug/g	3.2			4.4	30	
Barium	80.7	1.0	ug/g	87.2			7.7	30	
Beryllium	ND	0.5	ug/g	0.5			NC	30	
Boron	10.4	5.0	ug/g	10.4			0.0	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	24.0	5.0	ug/g	23.7			1.4	30	
Cobalt	6.7	1.0	ug/g	6.7			0.1	30	
Copper	12.6	5.0	ug/g	12.8			1.3	30	
Lead	12.6	1.0	ug/g	12.9			1.9	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	12.8	5.0	ug/g	12.9			0.9	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	33.8	10.0	ug/g	33.3			1.4	30	
Zinc	67.5	20.0	ug/g	67.3			0.3	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Pesticides, OC									
Aldrin	ND	0.01	ug/g	ND			NC	40	
gamma-BHC (Lindane)	ND	0.01	ug/g	ND			NC	40	
alpha-Chlordane	ND	0.01	ug/g	ND			NC	40	
gamma-Chlordane	ND	0.01	ug/g	ND			NC	40	
o,p'-DDD	ND	0.01	ug/g	ND			NC	40	
p,p'-DDD	ND	0.02	ug/g	ND			NC	40	
o,p'-DDE	ND	0.01	ug/g	ND			NC	40	
p,p'-DDE	ND	0.01	ug/g	ND			NC	40	
o,p'-DDT	ND	0.01	ug/g	ND			NC	40	
p,p'-DDT	ND	0.01	ug/g	ND			NC	40	
Dieldrin	ND	0.02	ug/g	ND			NC	40	
Endrin	ND	0.02	ug/g	ND			NC	40	
Endosulfan I	ND	0.01	ug/g	ND			NC	40	
Endosulfan II	ND	0.02	ug/g	ND			NC	40	
Heptachlor	ND	0.01	ug/g	ND			NC	40	
Heptachlor epoxide	ND	0.01	ug/g	ND			NC	40	
Hexachlorobenzene	ND	0.01	ug/g	ND			NC	40	
Hexachlorobutadiene	ND	0.01	ug/g	ND			NC	40	
Hexachloroethane	ND	0.01	ug/g	ND			NC	40	
Methoxychlor	ND	0.01	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.0328*		*%*		*54.6*	*50-140*			
Physical Characteristics									
% Solids	81.1	0.1	% by Wt.	81.0			0.1	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	0.023	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	0.103	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	0.084	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	0.115	0.02	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [g,h,i] perylene	0.044	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	0.044	0.02	ug/g	ND			NC	40	
Chrysene	0.106	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	0.235	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.053	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	0.063	0.02	ug/g	ND			NC	40	
Pyrene	0.151	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.12*		*%*		*73.5*	*50-140*			
Surrogate: Terphenyl-d14	*1.22*		*%*		*79.8*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*12.4*		*%*		*111*	*50-140*			
Surrogate: Dibromofluoromethane	*9.32*		*%*		*83.4*	*50-140*			
Surrogate: Toluene-d8	*12.2*		*%*		*109*	*50-140*			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	*7.83*		*%*		*97.9*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.294	0.03	ug/g	ND	98.1	70-130			
Hydrocarbons									
F1 PHCs (C6-C10)	175	7	ug/g	ND	102	85-115			
F2 PHCs (C10-C16)	105	4	ug/g	ND	116	60-140			
F3 PHCs (C16-C34)	277	8	ug/g	ND	124	60-140			
F4 PHCs (C34-C50)	180	6	ug/g	ND	127	60-140			
Metals									
Arsenic	52.4	1.0	ug/g	1.3	102	70-130			
Barium	82.8	1.0	ug/g	34.9	95.8	70-130			
Beryllium	50.6	0.5	ug/g	ND	101	70-130			
Boron	48.0	5.0	ug/g	ND	87.6	70-130			
Cadmium	49.9	0.5	ug/g	ND	99.6	70-130			
Chromium (VI)	4.9	0.2	ug/g	ND	98.0	66-118			
Chromium	64.2	5.0	ug/g	9.5	109	70-130			
Cobalt	55.7	1.0	ug/g	2.7	106	70-130			
Copper	54.6	5.0	ug/g	5.1	99.0	70-130			
Lead	54.5	1.0	ug/g	5.2	98.7	70-130			
Mercury	1.56	0.1	ug/g	ND	104	70-130			
Molybdenum	49.3	1.0	ug/g	ND	98.3	70-130			
Nickel	56.4	5.0	ug/g	5.2	102	70-130			
Selenium	48.4	1.0	ug/g	ND	96.3	70-130			
Silver	39.0	0.3	ug/g	ND	78.0	70-130			
Thallium	47.5	1.0	ug/g	ND	94.9	70-130			
Uranium	48.7	1.0	ug/g	ND	97.0	70-130			
Vanadium	67.7	10.0	ug/g	13.3	109	70-130			
Zinc	69.6	20.0	ug/g	26.9	85.4	70-130			
Pesticides, OC									
Aldrin	0.20	0.01	ug/g	ND	83.2	50-140			
gamma-BHC (Lindane)	0.18	0.01	ug/g	ND	75.9	50-140			
alpha-Chlordane	0.18	0.01	ug/g	ND	75.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
gamma-Chlordane	0.18	0.01	ug/g	ND	74.6	50-140			
o,p'-DDD	0.25	0.01	ug/g	ND	105	50-140			
p,p'-DDD	0.21	0.02	ug/g	ND	88.6	50-140			
o,p'-DDE	0.21	0.01	ug/g	ND	87.6	50-140			
p,p'-DDE	0.19	0.01	ug/g	ND	79.2	50-140			
o,p'-DDT	0.28	0.01	ug/g	ND	115	50-140			
p,p'-DDT	0.21	0.01	ug/g	ND	88.1	50-140			
Endosulfan I	0.19	0.01	ug/g	ND	77.7	50-140			
Endosulfan II	0.12	0.02	ug/g	ND	51.0	50-140			
Heptachlor	0.21	0.01	ug/g	ND	88.8	50-140			
Heptachlor epoxide	0.20	0.01	ug/g	ND	83.5	50-140			
Hexachlorobenzene	0.17	0.01	ug/g	ND	70.0	50-140			
Hexachlorobutadiene	0.18	0.01	ug/g	ND	76.5	50-140			
Hexachloroethane	0.17	0.01	ug/g	ND	70.4	50-140			
Methoxychlor	0.20	0.01	ug/g	ND	83.1	50-140			
Surrogate: Decachlorobiphenyl	*0.0327*		*%*		*54.4*	*50-140*			
Semi-Volatiles									
Acenaphthene	0.145	0.02	ug/g	ND	75.6	50-140			
Acenaphthylene	0.126	0.02	ug/g	ND	66.1	50-140			
Anthracene	0.141	0.02	ug/g	ND	73.6	50-140			
Benzo [a] anthracene	0.161	0.02	ug/g	ND	84.1	50-140			
Benzo [a] pyrene	0.119	0.02	ug/g	ND	62.2	50-140			
Benzo [b] fluoranthene	0.162	0.02	ug/g	ND	84.8	50-140			
Benzo [g,h,i] perylene	0.152	0.02	ug/g	ND	79.5	50-140			
Benzo [k] fluoranthene	0.150	0.02	ug/g	ND	78.6	50-140			
Chrysene	0.173	0.02	ug/g	ND	90.3	50-140			
Dibenzo [a,h] anthracene	0.156	0.02	ug/g	ND	81.8	50-140			
Fluoranthene	0.195	0.02	ug/g	ND	102	50-140			
Fluorene	0.152	0.02	ug/g	ND	79.3	50-140			
Indeno [1,2,3-cd] pyrene	0.155	0.02	ug/g	ND	81.0	50-140			
1-Methylnaphthalene	0.139	0.02	ug/g	ND	72.7	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
2-Methylnaphthalene	0.197	0.02	ug/g	ND	103	50-140			
Naphthalene	0.134	0.01	ug/g	ND	70.1	50-140			
Phenanthrene	0.171	0.02	ug/g	ND	89.5	50-140			
Pyrene	0.159	0.02	ug/g	ND	83.0	50-140			
Surrogate: 2-Fluorobiphenyl	*1.20*		*%*		*78.6*	*50-140*			
Surrogate: Terphenyl-d14	*1.26*		*%*		*82.7*	*50-140*			
Volatiles									
Acetone	6.77	0.50	ug/g	ND	67.7	50-140			
Benzene	3.75	0.02	ug/g	ND	93.7	60-130			
Bromodichloromethane	3.30	0.05	ug/g	ND	82.4	60-130			
Bromoform	2.75	0.05	ug/g	ND	68.9	60-130			
Bromomethane	3.13	0.05	ug/g	ND	78.2	50-140			
Carbon Tetrachloride	3.16	0.05	ug/g	ND	79.1	60-130			
Chlorobenzene	3.41	0.05	ug/g	ND	85.3	60-130			
Chloroform	2.88	0.05	ug/g	ND	71.9	60-130			
Dibromochloromethane	2.95	0.05	ug/g	ND	73.9	60-130			
Dichlorodifluoromethane	3.40	0.05	ug/g	ND	84.9	50-140			
1,2-Dichlorobenzene	3.44	0.05	ug/g	ND	85.9	60-130			
1,3-Dichlorobenzene	3.51	0.05	ug/g	ND	87.7	60-130			
1,4-Dichlorobenzene	3.48	0.05	ug/g	ND	87.0	60-130			
1,1-Dichloroethane	3.50	0.05	ug/g	ND	87.6	60-130			
1,2-Dichloroethane	2.97	0.05	ug/g	ND	74.1	60-130			
1,1-Dichloroethylene	3.61	0.05	ug/g	ND	90.2	60-130			
cis-1,2-Dichloroethylene	2.89	0.05	ug/g	ND	72.2	60-130			
trans-1,2-Dichloroethylene	3.76	0.05	ug/g	ND	93.9	60-130			
1,2-Dichloropropane	3.56	0.05	ug/g	ND	89.1	60-130			
cis-1,3-Dichloropropylene	2.83	0.05	ug/g	ND	70.8	60-130			
trans-1,3-Dichloropropylene	2.71	0.05	ug/g	ND	67.7	60-130			
Ethylbenzene	3.51	0.05	ug/g	ND	87.8	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.06	0.05	ug/g	ND	76.4	60-130			
Hexane	3.55	0.05	ug/g	ND	88.7	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Methyl Ethyl Ketone (2-Butanone)	6.86	0.50	ug/g	ND	68.6	50-140			
Methyl Isobutyl Ketone	9.52	0.50	ug/g	ND	95.2	50-140			
Methyl tert-butyl ether	8.68	0.05	ug/g	ND	86.8	50-140			
Methylene Chloride	3.91	0.05	ug/g	ND	97.8	60-130			
Styrene	3.16	0.05	ug/g	ND	79.0	60-130			
1,1,1,2-Tetrachloroethane	3.06	0.05	ug/g	ND	76.4	60-130			
1,1,2,2-Tetrachloroethane	3.31	0.05	ug/g	ND	82.6	60-130			
Tetrachloroethylene	3.38	0.05	ug/g	ND	84.4	60-130			
Toluene	3.01	0.05	ug/g	ND	75.3	60-130			
1,1,1-Trichloroethane	2.91	0.05	ug/g	ND	72.7	60-130			
1,1,2-Trichloroethane	3.20	0.05	ug/g	ND	79.9	60-130			
Trichloroethylene	3.52	0.05	ug/g	ND	88.1	60-130			
Trichlorofluoromethane	3.90	0.05	ug/g	ND	97.4	50-140			
Vinyl chloride	4.31	0.02	ug/g	ND	108	50-140			
m,p-Xylenes	6.65	0.05	ug/g	ND	83.1	60-130			
o-Xylene	3.43	0.05	ug/g	ND	85.8	60-130			
Surrogate: 4-Bromofluorobenzene	*8.16*		*%*		*102*	*50-140*			
Surrogate: Dibromofluoromethane	*7.28*		*%*		*91.0*	*50-140*			
Surrogate: Toluene-d8	*7.86*		*%*		*98.2*	*50-140*			
Benzene	4.19	0.02	ug/g	ND	105	60-130			
Ethylbenzene	4.09	0.05	ug/g	ND	102	60-130			
Toluene	3.48	0.05	ug/g	ND	87.0	60-130			
m,p-Xylenes	7.81	0.05	ug/g	ND	97.6	60-130			
o-Xylene	3.94	0.05	ug/g	ND	98.5	60-130			
Surrogate: Toluene-d8	*7.90*		*%*		*98.8*	*50-140*			

Qualifier Notes:

Login Qualifiers :

Sample - F1/BTEX/VOCs (soil) not submitted according to Reg. 153/04, Amended 2011 - not field preserved. Prepared in the lab as directed by client.
Applies to Samples: BH14-SS1

Sample Qualifiers :

2: Some peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup. Results may be biased high.

Sample Data Revisions:

None

Certificate of Analysis

Report Date: 14-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 8-Apr-2025

Client PO:

Project Description: 240720

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARAC LABORATORIE

Paracel ID: 2515164

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Paracel Order Number (Lab Use Only)
2515164

Chain of Custody (Lab Use Only)
№ 148263

Client Name: LRL Engineering
Contact Name: Jessica Arthurs
Address: 5430 Canotek Road
Ottawa, On K1J 9G2
Telephone: 613 978 0658

Project Ref: 240720
Quote #
PO #
E-mail: Jarthurs@lrl.ca

Page 1 of 1

Turnaround Time
☐ 1 Day ☐ 3 Day
☐ 2 day ☒ Regular
Date Required: _____

☐ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/other ☐ Med/Fine
☐ Table 2 ☒ Res/Park ☒ Coarse
☒ Table 3 ☐ Ind/Comm
Table ___
For RSC: ☐ Yes ☒ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ other:

Matrix Type: **S** (Soil/Sed.) **GW** (Ground Water) **SW** (Surface Water) **SS** (Storm/Sanitary Sewer) **P** (Paint) **A** (Air) **O** (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	OCP Pesticides	● Reg 153 Inorganics		
1	BH9-SS1	S		2	—	03/04/2025	PM	X	X									
2	BH9-SS2	↓		1	↓	03/04/2025	PM			X	X	X	X			X		
3	BH3-SS1			2		04/04/25	PM	X	X									
4	BH3-SS2			1		04/04/25	PM				X	X	X			X		
5	BH5-SS1			2		03/04/2025	PM	X	X		X	X	X			X		
6	BH5-SS2			1		03/04/2025	PM								X			
7	BH1-SS1			2		04/04/25	PM	X	X		X	X	X					
8	BH1-SS2			1		04/04/25	PM			X					X			
9	BH14-SS1			2		03/04/25	AM	X	X									
10	BH14-SS2	↓		1	↓	03/04/25	AM			X	X	X	X		X	X		

Comments:
Please subsample VOC for BH14-SS1

Method of Delivery: P. Courier

Relinquished By (Sign):	Received at Depot:	Received at Lab: JM	Verified By:
Relinquished By (Print):	Date/Time:	Date/Time: APR 8 25 1043	Date/Time: APR 8 11 41
Date/Time:	Temperature °C	Temperature 15.7 °C	pH Verified: ☐ By:

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Certificate of Analysis

LRL Associates Ltd.
5430 Canotek Road
Ottawa, ON K1J 9G2
Attn: Eric Lavergne

Client PO:
Project: 240720
Custody: 148284

Report Date: 17-Apr-2025
Order Date: 11-Apr-2025

Order #: 2515562

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2515562-01	20-SS1
2515562-02	20-SS2
2515562-03	23-SS1

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	14-Apr-25	14-Apr-25
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	14-Apr-25	15-Apr-25
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	14-Apr-25	15-Apr-25
Conductivity	MOE E3138 - probe @25 °C, water ext	14-Apr-25	14-Apr-25
Cyanide, free	MOE E3015 - Auto Colour, water extraction	15-Apr-25	15-Apr-25
Mercury by CVAA	EPA 7471B - CVAA, digestion	14-Apr-25	14-Apr-25
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	15-Apr-25	15-Apr-25
PHC F1	CWS Tier 1 - P&T GC-FID	14-Apr-25	15-Apr-25
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	15-Apr-25	16-Apr-25
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	14-Apr-25	14-Apr-25
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	15-Apr-25	15-Apr-25
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	14-Apr-25	15-Apr-25
SAR	Calculated	14-Apr-25	14-Apr-25
Solids, %	CWS Tier 1 - Gravimetric	15-Apr-25	17-Apr-25

PARACEL LABORATORIES LTD.

Order #: 2515562

Certificate of Analysis

Report Date: 17-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 11-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	20-SS1	20-SS2	23-SS1	-	-	-
	Sample Date:	10-Apr-25 09:00	10-Apr-25 09:00	08-Apr-25 09:00	-		
	Sample ID:	2515562-01	2515562-02	2515562-03	-		
	Matrix:	Soil	Soil	Soil	-		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	81.2	81.1	81.8	-	-	-
General Inorganics							
SAR	0.01 N/A	0.29	0.51	-	-	-	-
Conductivity	5 uS/cm	242	323	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	<0.03	-	-	-	-
pH	0.05 pH Units	7.41	7.51	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	-	-	-	-
Arsenic	1.0 ug/g	3.6	4.7	-	-	-	-
Barium	1.0 ug/g	164	199	-	-	-	-
Beryllium	0.5 ug/g	0.7	0.8	-	-	-	-
Boron	5.0 ug/g	8.2	8.8	-	-	-	-
Boron, available	0.5 ug/g	0.5	0.5	-	-	-	-
Cadmium	0.5 ug/g	<0.5	<0.5	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	<0.2	-	-	-	-
Chromium	5.0 ug/g	40.9	45.7	-	-	-	-
Cobalt	1.0 ug/g	10.8	12.5	-	-	-	-
Copper	5.0 ug/g	20.7	21.2	-	-	-	-
Lead	1.0 ug/g	8.4	10.0	-	-	-	-
Mercury	0.1 ug/g	<0.1	<0.1	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	<1.0	-	-	-	-
Nickel	5.0 ug/g	22.1	22.8	-	-	-	-
Selenium	1.0 ug/g	<1.0	<1.0	-	-	-	-
Silver	0.3 ug/g	<0.3	<0.3	-	-	-	-
Thallium	1.0 ug/g	<1.0	<1.0	-	-	-	-

Certificate of Analysis

Report Date: 17-Apr-2025

Client: **LRL Associates Ltd.**

Order Date: 11-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	20-SS1	20-SS2	23-SS1	-	-	-
	Sample Date:	10-Apr-25 09:00	10-Apr-25 09:00	08-Apr-25 09:00	-		
	Sample ID:	2515562-01	2515562-02	2515562-03	-		
	Matrix:	Soil	Soil	Soil	-		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	<1.0	1.2	-	-	-	-
Vanadium	10.0 ug/g	56.4	64.9	-	-	-	-
Zinc	20.0 ug/g	68.4	76.5	-	-	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	-	-
Benzene	0.02 ug/g	<0.02	-	-	-	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	-	-
Bromoform	0.05 ug/g	<0.05	-	-	-	-	-
Bromomethane	0.05 ug/g	<0.05	-	-	-	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
Chloroform	0.05 ug/g	<0.05	-	-	-	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-

	Client ID:	20-SS1	20-SS2	23-SS1	-	-	-
	Sample Date:	10-Apr-25 09:00	10-Apr-25 09:00	08-Apr-25 09:00	-		
	Sample ID:	2515562-01	2515562-02	2515562-03	-		
	Matrix:	Soil	Soil	Soil	-		
	MDL/Units						
Volatiles							
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	-	-
Hexane	0.05 ug/g	<0.05	-	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	-	-
Styrene	0.05 ug/g	<0.05	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
Toluene	0.05 ug/g	<0.05	-	-	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	-	-
Dibromofluoromethane	Surrogate	119%	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	102%	-	-	-	-	-
Toluene-d8	Surrogate	105%	-	-	-	-	-
Benzene	0.02 ug/g	-	-	<0.02	-	-	-

Certificate of Analysis

Report Date: 17-Apr-2025

Client: LRL Associates Ltd.

Order Date: 11-Apr-2025

Client PO:

Project Description: 240720

	Client ID:	20-SS1	20-SS2	23-SS1	-	-	-
	Sample Date:	10-Apr-25 09:00	10-Apr-25 09:00	08-Apr-25 09:00	-		
	Sample ID:	2515562-01	2515562-02	2515562-03	-		
	Matrix:	Soil	Soil	Soil	-		
	MDL/Units						
Volatiles							
Ethylbenzene	0.05 ug/g	-	-	<0.05	-	-	-
Toluene	0.05 ug/g	-	-	<0.05	-	-	-
m,p-Xylenes	0.05 ug/g	-	-	<0.05	-	-	-
o-Xylene	0.05 ug/g	-	-	<0.05	-	-	-
Xylenes, total	0.05 ug/g	-	-	<0.05	-	-	-
Toluene-d8	Surrogate	-	-	104%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	<7	-	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	<4	-	-	-
F3 PHCs (C16-C34)	8 ug/g	18	-	10	-	-	-
F4 PHCs (C34-C50)	6 ug/g	20	-	14	-	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	-	-
Anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Chrysene	0.02 ug/g	<0.02	-	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	-	-
Fluoranthene	0.02 ug/g	<0.02	-	-	-	-	-
Fluorene	0.02 ug/g	<0.02	-	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	-	-

	Client ID:	20-SS1	20-SS2	23-SS1	-		
	Sample Date:	10-Apr-25 09:00	10-Apr-25 09:00	08-Apr-25 09:00	-	-	-
	Sample ID:	2515562-01	2515562-02	2515562-03	-		
	Matrix:	Soil	Soil	Soil	-		
	MDL/Units						
Semi-Volatiles							
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	-	-	-	-
Phenanthrene	0.02 ug/g	<0.02	-	-	-	-	-
Pyrene	0.02 ug/g	<0.02	-	-	-	-	-
2-Fluorobiphenyl	Surrogate	81.3%	-	-	-	-	-
Terphenyl-d14	Surrogate	89.7%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*1.10*		*%*	*82.5*	*50-140*			
Surrogate: Terphenyl-d14	*1.17*		*%*	*87.9*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*7.33*		*%*	*91.7*	*50-140*			
Surrogate: Dibromofluoromethane	*7.89*		*%*	*98.6*	*50-140*			

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*7.97*		*%*	*99.6*	*50-140*			
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	*7.97*		*%*	*99.6*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.17	0.01	N/A	0.17			0.0	30	
Conductivity	756	5	uS/cm	756			0.0	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.21	0.05	pH Units	7.24			0.4	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	15.5	1.0	ug/g	15.5			0.0	30	
Barium	46.2	1.0	ug/g	41.3			11.1	30	
Beryllium	1.6	0.5	ug/g	1.6			1.0	30	
Boron, available	ND	0.5	ug/g	0.51			NC	35	
Boron	35.9	5.0	ug/g	37.8			5.3	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	43.7	5.0	ug/g	43.2			1.1	30	
Cobalt	23.0	1.0	ug/g	23.5			2.0	30	
Copper	67.1	5.0	ug/g	79.4			16.8	30	
Lead	6.5	1.0	ug/g	6.8			5.0	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	49.5	5.0	ug/g	50.2			1.4	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	1.0	1.0	ug/g	1.0			0.9	30	
Vanadium	50.8	10.0	ug/g	49.0			3.6	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	101	20.0	ug/g	103			1.9	30	
Physical Characteristics									
% Solids	83.5	0.1	% by Wt.	84.4			1.1	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.46*		*%*		*88.8*	*50-140*			
Surrogate: Terphenyl-d14	*1.58*		*%*		*96.4*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*9.12*		*%*		*97.4*	*50-140*			
Surrogate: Dibromofluoromethane	*10.6*		*%*		*113*	*50-140*			
Surrogate: Toluene-d8	*9.59*		*%*		*102*	*50-140*			
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	*9.59*		*%*		*102*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.253	0.03	ug/g	ND	68.6	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	185	7	ug/g	ND	108	85-115			
F2 PHCs (C10-C16)	86	4	ug/g	ND	108	60-140			
F3 PHCs (C16-C34)	229	8	ug/g	ND	117	60-140			
F4 PHCs (C34-C50)	137	6	ug/g	ND	111	60-140			
Metals									
Arsenic	65.9	1.0	ug/g	6.2	119	70-130			
Barium	76.8	1.0	ug/g	16.5	121	70-130			
Beryllium	60.5	0.5	ug/g	0.6	120	70-130			
Boron, available	4.79	0.5	ug/g	0.51	85.6	60-140			
Boron	67.7	5.0	ug/g	15.1	105	70-130			
Cadmium	55.4	0.5	ug/g	ND	111	70-130			
Chromium (VI)	4.9	0.2	ug/g	ND	98.5	66-118			
Chromium	83.6	5.0	ug/g	17.3	133	70-130			QM-07
Cobalt	71.9	1.0	ug/g	9.4	125	70-130			
Copper	86.5	5.0	ug/g	31.8	109	70-130			
Lead	56.4	1.0	ug/g	2.7	107	70-130			
Mercury	1.58	0.1	ug/g	ND	105	70-130			
Molybdenum	59.5	1.0	ug/g	ND	118	70-130			
Nickel	82.8	5.0	ug/g	20.1	125	70-130			
Selenium	57.6	1.0	ug/g	ND	115	70-130			
Silver	44.1	0.3	ug/g	ND	88.2	70-130			
Thallium	53.7	1.0	ug/g	ND	107	70-130			
Uranium	57.4	1.0	ug/g	ND	114	70-130			
Vanadium	85.7	10.0	ug/g	19.6	132	70-130			QM-07
Zinc	100	20.0	ug/g	41.1	118	70-130			
Semi-Volatiles									
Acenaphthene	0.196	0.02	ug/g	ND	95.6	50-140			
Acenaphthylene	0.194	0.02	ug/g	ND	94.4	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anthracene	0.223	0.02	ug/g	ND	109	50-140			
Benzo [a] anthracene	0.210	0.02	ug/g	ND	102	50-140			
Benzo [a] pyrene	0.239	0.02	ug/g	ND	117	50-140			
Benzo [b] fluoranthene	0.185	0.02	ug/g	ND	90.0	50-140			
Benzo [g,h,i] perylene	0.195	0.02	ug/g	ND	94.9	50-140			
Benzo [k] fluoranthene	0.187	0.02	ug/g	ND	90.9	50-140			
Chrysene	0.220	0.02	ug/g	ND	107	50-140			
Dibenzo [a,h] anthracene	0.204	0.02	ug/g	ND	99.4	50-140			
Fluoranthene	0.259	0.02	ug/g	ND	126	50-140			
Fluorene	0.189	0.02	ug/g	ND	92.2	50-140			
Indeno [1,2,3-cd] pyrene	0.199	0.02	ug/g	ND	96.8	50-140			
1-Methylnaphthalene	0.193	0.02	ug/g	ND	94.2	50-140			
2-Methylnaphthalene	0.216	0.02	ug/g	ND	105	50-140			
Naphthalene	0.192	0.01	ug/g	ND	93.7	50-140			
Phenanthrene	0.222	0.02	ug/g	ND	108	50-140			
Pyrene	0.199	0.02	ug/g	ND	96.8	50-140			
Surrogate: 2-Fluorobiphenyl	*1.46*		*%*		*88.9*	*50-140*			
Surrogate: Terphenyl-d14	*1.55*		*%*		*94.3*	*50-140*			
Volatiles									
Acetone	12.4	0.50	ug/g	ND	124	50-140			
Benzene	3.84	0.02	ug/g	ND	96.1	60-130			
Bromodichloromethane	4.46	0.05	ug/g	ND	111	60-130			
Bromoform	4.69	0.05	ug/g	ND	117	60-130			
Bromomethane	4.80	0.05	ug/g	ND	120	50-140			
Carbon Tetrachloride	4.46	0.05	ug/g	ND	112	60-130			
Chlorobenzene	4.14	0.05	ug/g	ND	103	60-130			
Chloroform	4.72	0.05	ug/g	ND	118	60-130			
Dibromochloromethane	4.37	0.05	ug/g	ND	109	60-130			
Dichlorodifluoromethane	4.74	0.05	ug/g	ND	118	50-140			
1,2-Dichlorobenzene	4.46	0.05	ug/g	ND	112	60-130			
1,3-Dichlorobenzene	4.35	0.05	ug/g	ND	109	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	4.53	0.05	ug/g	ND	113	60-130			
1,1-Dichloroethane	4.16	0.05	ug/g	ND	104	60-130			
1,2-Dichloroethane	5.01	0.05	ug/g	ND	125	60-130			
1,1-Dichloroethylene	4.46	0.05	ug/g	ND	111	60-130			
cis-1,2-Dichloroethylene	4.71	0.05	ug/g	ND	118	60-130			
trans-1,2-Dichloroethylene	3.64	0.05	ug/g	ND	91.1	60-130			
1,2-Dichloropropane	4.89	0.05	ug/g	ND	122	60-130			
cis-1,3-Dichloropropylene	4.46	0.05	ug/g	ND	112	60-130			
trans-1,3-Dichloropropylene	4.72	0.05	ug/g	ND	118	60-130			
Ethylbenzene	4.52	0.05	ug/g	ND	113	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.86	0.05	ug/g	ND	96.4	60-130			
Hexane	4.17	0.05	ug/g	ND	104	60-130			
Methyl Ethyl Ketone (2-Butanone)	13.7	0.50	ug/g	ND	137	50-140			
Methyl Isobutyl Ketone	11.8	0.50	ug/g	ND	118	50-140			
Methyl tert-butyl ether	13.9	0.05	ug/g	ND	139	50-140			
Methylene Chloride	4.62	0.05	ug/g	ND	116	60-130			
Styrene	4.58	0.05	ug/g	ND	114	60-130			
1,1,1,2-Tetrachloroethane	3.94	0.05	ug/g	ND	98.6	60-130			
1,1,2,2-Tetrachloroethane	3.96	0.05	ug/g	ND	99.1	60-130			
Tetrachloroethylene	4.27	0.05	ug/g	ND	107	60-130			
Toluene	4.59	0.05	ug/g	ND	115	60-130			
1,1,1-Trichloroethane	4.38	0.05	ug/g	ND	110	60-130			
1,1,2-Trichloroethane	4.76	0.05	ug/g	ND	119	60-130			
Trichloroethylene	4.96	0.05	ug/g	ND	124	60-130			
Trichlorofluoromethane	4.65	0.05	ug/g	ND	116	50-140			
Vinyl chloride	2.99	0.02	ug/g	ND	74.6	50-140			
m,p-Xylenes	8.63	0.05	ug/g	ND	108	60-130			
o-Xylene	4.47	0.05	ug/g	ND	112	60-130			
Surrogate: 4-Bromofluorobenzene	*6.81*		*%*		*85.1*	*50-140*			
Surrogate: Dibromofluoromethane	*7.42*		*%*		*92.7*	*50-140*			
Surrogate: Toluene-d8	*7.36*		*%*		*92.0*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzene	3.84	0.02	ug/g	ND	96.1	60-130			
Ethylbenzene	4.52	0.05	ug/g	ND	113	60-130			
Toluene	4.59	0.05	ug/g	ND	115	60-130			
m,p-Xylenes	8.63	0.05	ug/g	ND	108	60-130			
o-Xylene	4.47	0.05	ug/g	ND	112	60-130			
Surrogate: Toluene-d8	*7.36*		*%*		*92.0*	*50-140*			

Qualifier Notes:

QC Qualifiers:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES

Paracel ID: 2515562

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Paracel Order Number (Lab Use Only): ~~250~~ 2515562

Chain of Custody (Lab Use Only) № 148284

Client Name: LRL Associates Ltd
Contact Name: Eric Lavergne
Address: 5430 Canotek Road
Telephone: 613 842 5434

Project Ref: 240720
Quote #
PO #
E-mail: elavergne@lrl.ca

Page 1 of 1

Turnaround Time
☐ 1 Day ☐ 3 Day
☐ 2 day ☒ Regular
Date Required: _____

☒ REG 153/04 ☐ REG 406/19
☐ Table 1 ☐ Agri/other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
Table ___
For RSC: ☐ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ other:

Matrix Type: **S** (Soil/Sed.) **GW** (Ground Water) **SW** (Surface Water) **SS** (Storm/Sanitary Sewer) **P** (Paint) **A** (Air) **O** (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Full metals & Inorganics			
1	20-551	S		2		April 10	AM	X	X	X					/			
2	20-552	↓		↓		April 10	↓								X			
3	23-551					April 8		X										
4	23-552	↓		↓		April 8	↓								X			
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: WALK IN

Relinquished By (Sign):	Received at Depot:	Received at Lab: JM	Verified By: SD
Relinquished By (Print): Eric Lavergne	Date/Time:	Date/Time: APR 11/25 1331	Date/Time: Apr 11, 2025 2:10pm
Date/Time: April 11, 2025	Temperature °C	Temperature 11.4 °C	pH Verified: ☐ By:

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Certificate of Analysis

LRL Associates Ltd.
5430 Canotek Road
Ottawa, ON K1J 9G2
Attn: Eric Lavergne

Client PO:
Project: 240720
Custody: 151310, 151309, 151308

Report Date: 3-Jun-2026
Order Date: 28-May-2026

Order #: 2622390

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	Paracel ID	Client ID
2622390-01	30-SS4	2622390-17	29-SS1
2622390-02	30-SS5	2622390-18	29-SS2
2622390-03	26-SS1	2622390-19	29-SS3
2622390-04	26-SS2	2622390-20	29-SSX
2622390-05	25-SS1	2622390-21	24-SS1
2622390-06	25-SS2	2622390-22	24-SS2
2622390-07	27-SS1		
2622390-08	27-SS2		
2622390-09	27-SS3		
2622390-10	31-SS3		
2622390-11	31-SS4		
2622390-12	32-SS3		
2622390-13	32-SS4		
2622390-14	32-SSX		
2622390-15	28-SS1		
2622390-16	28-SS2		

Approved By:

Mark Foto

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	Ottawa	29-May-26	1-Jun-26
Conductivity	MOE E3138 - probe @25 °C, water ext	Ottawa	29-May-26	29-May-26
Cyanide, free	MOE E3015 - Auto Colour, water extraction	Ottawa	29-May-26	29-May-26
Mercury by CVAA	EPA 7471B - CVAA, digestion	Ottawa	29-May-26	29-May-26
pH, soil	MOE E3137 - probe @25 °C, CaCl2 ext	Ottawa	29-May-26	29-May-26
PHC F1	CWS Tier 1 - P&T GC-FID	Ottawa	29-May-26	29-May-26
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	Ottawa	29-May-26	1-Jun-26
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	Ottawa	29-May-26	29-May-26
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	Ottawa	30-May-26	31-May-26
REG 153: Pesticides, OC	EPA 8081B - GC-ECD	Ottawa	29-May-26	29-May-26
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	Ottawa	29-May-26	29-May-26
SAR	Calculated	Ottawa	29-May-26	29-May-26
Solids, %	CWS Tier 1 - Gravimetric		28-May-26	29-May-26

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	30-SS4	30-SS5	26-SS1	26-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	25-May-26 12:00	25-May-26 12:00		
	Sample ID:	2622390-01	2622390-02	2622390-03	2622390-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	83.1	79.9	87.6	86.6	-	-
General Inorganics							
SAR	0.01 N/A	-	-	-	0.09	-	-
Conductivity	5 uS/cm	-	-	-	209	-	-
Cyanide, free	0.03 ug/g	-	-	-	<0.03	-	-
pH	0.05 pH Units	-	-	-	7.52	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	-	<1.0	-	-
Arsenic	1.0 ug/g	-	3.6	-	2.1	-	-
Barium	1.0 ug/g	-	109	-	83.5	-	-
Beryllium	0.5 ug/g	-	0.5	-	<0.5	-	-
Boron	5.0 ug/g	-	6.0	-	12.5	-	-
Cadmium	0.5 ug/g	-	<0.5	-	<0.5	-	-
Chromium	5.0 ug/g	-	30.9	-	22.1	-	-
Chromium (VI)	0.2 ug/g	-	<0.2	-	<0.2	-	-
Cobalt	1.0 ug/g	-	8.4	-	7.4	-	-
Copper	5.0 ug/g	-	15.4	-	11.8	-	-
Lead	1.0 ug/g	-	4.7	-	7.7	-	-
Mercury	0.1 ug/g	-	<0.1	-	<0.1	-	-
Molybdenum	1.0 ug/g	-	<1.0	-	<1.0	-	-
Nickel	5.0 ug/g	-	17.7	-	16.0	-	-
Selenium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Silver	0.3 ug/g	-	<0.3	-	<0.3	-	-
Thallium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Uranium	1.0 ug/g	-	<1.0	-	<1.0	-	-
Vanadium	10.0 ug/g	-	45.0	-	22.6	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	30-SS4	30-SS5	26-SS1	26-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	25-May-26 12:00	25-May-26 12:00		
	Sample ID:	2622390-01	2622390-02	2622390-03	2622390-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	-	41.2	-	21.6	-	-
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	<0.50	-	-
Benzene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Bromodichloromethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Bromoform	0.05 ug/g	<0.05	-	-	<0.05	-	-
Bromomethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	<0.05	-	-
Chlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Chloroform	0.05 ug/g	<0.05	-	-	<0.05	-	-
Dibromochloromethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	<0.05	-	-
Ethylbenzene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	<0.05	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	30-SS4	30-SS5	26-SS1	26-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	25-May-26 12:00	25-May-26 12:00		
	Sample ID:	2622390-01	2622390-02	2622390-03	2622390-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Hexane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	<0.05	-	-
Methylene Chloride	0.05 ug/g	<0.05	-	-	<0.05	-	-
Styrene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Toluene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Trichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	<0.05	-	-
Vinyl chloride	0.02 ug/g	<0.02	-	-	<0.02	-	-
m,p-Xylenes	0.05 ug/g	<0.05	-	-	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	<0.05	-	-
4-Bromofluorobenzene	Surrogate	97.9%	-	-	95.3%	-	-
Dibromofluoromethane	Surrogate	77.1%	-	-	74.9%	-	-
Toluene-d8	Surrogate	118%	-	-	115%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	8	-	-
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	39	-	-
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	48	-	-

	Client ID:	30-SS4	30-SS5	26-SS1	26-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	25-May-26 12:00	25-May-26 12:00		
	Sample ID:	2622390-01	2622390-02	2622390-03	2622390-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Anthracene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	0.02	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Chrysene	0.02 ug/g	-	<0.02	0.02	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	0.04	-	-	-
Fluorene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	<0.04	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	<0.01	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	<0.02	-	-	-
Pyrene	0.02 ug/g	-	<0.02	0.04	-	-	-
2-Fluorobiphenyl	Surrogate	-	72.2%	79.9%	-	-	-
Terphenyl-d14	Surrogate	-	77.3%	106%	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	-	<0.01	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	-	-	<0.01	-	-	-
alpha-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
gamma-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	30-SS4	30-SS5	26-SS1	26-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	25-May-26 12:00	25-May-26 12:00		
	Sample ID:	2622390-01	2622390-02	2622390-03	2622390-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
o,p'-DDD	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDD	0.02 ug/g	-	-	<0.02	-	-	-
DDD	0.02 ug/g	-	-	<0.02	-	-	-
o,p'-DDE	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDE	0.01 ug/g	-	-	<0.01	-	-	-
DDE	0.01 ug/g	-	-	<0.01	-	-	-
o,p'-DDT	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDT	0.01 ug/g	-	-	<0.01	-	-	-
DDT	0.01 ug/g	-	-	<0.01	-	-	-
Dieldrin	0.02 ug/g	-	-	<0.02	-	-	-
Endrin	0.02 ug/g	-	-	<0.02	-	-	-
Endosulfan I	0.01 ug/g	-	-	<0.01	-	-	-
Endosulfan II	0.02 ug/g	-	-	<0.02	-	-	-
Endosulfan I/II	0.02 ug/g	-	-	<0.02	-	-	-
Heptachlor	0.01 ug/g	-	-	<0.01	-	-	-
Heptachlor epoxide	0.01 ug/g	-	-	<0.01	-	-	-
Hexachlorobenzene	0.01 ug/g	-	-	<0.01	-	-	-
Hexachlorobutadiene	0.01 ug/g	-	-	<0.01	-	-	-
Hexachloroethane	0.01 ug/g	-	-	<0.01	-	-	-
Methoxychlor	0.01 ug/g	-	-	<0.01	-	-	-
Decachlorobiphenyl	Surrogate	-	-	70.6%	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	25-SS1	25-SS2	27-SS1	27-SS2	-	-
	Sample Date:	25-May-26 12:00	25-May-26 12:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-05	2622390-06	2622390-07	2622390-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	86.1	84.2	88.4	85.0	-	-
General Inorganics							
SAR	0.01 N/A	0.18	-	0.15	-	-	-
Conductivity	5 uS/cm	208	-	176	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	<0.03	-	-	-
pH	0.05 pH Units	7.33	-	7.39	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	<1.0	-	-	-
Arsenic	1.0 ug/g	2.3	-	2.1	-	-	-
Barium	1.0 ug/g	119	-	99.2	-	-	-
Beryllium	0.5 ug/g	<0.5	-	<0.5	-	-	-
Boron	5.0 ug/g	5.4	-	6.2	-	-	-
Cadmium	0.5 ug/g	<0.5	-	<0.5	-	-	-
Chromium	5.0 ug/g	25.6	-	22.6	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	<0.2	-	-	-
Cobalt	1.0 ug/g	7.0	-	6.4	-	-	-
Copper	5.0 ug/g	12.3	-	13.1	-	-	-
Lead	1.0 ug/g	6.9	-	15.3	-	-	-
Mercury	0.1 ug/g	<0.1	-	<0.1	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	<1.0	-	-	-
Nickel	5.0 ug/g	13.7	-	13.1	-	-	-
Selenium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Silver	0.3 ug/g	<0.3	-	<0.3	-	-	-
Thallium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Uranium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Vanadium	10.0 ug/g	37.5	-	30.2	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	25-SS1	25-SS2	27-SS1	27-SS2	-	-
	Sample Date:	25-May-26 12:00	25-May-26 12:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-05	2622390-06	2622390-07	2622390-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	36.9	-	47.2	-	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Benzene	0.02 ug/g	-	<0.02	-	<0.02	-	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromoform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromomethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chloroform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	<0.05	-	-

	Client ID:	25-SS1	25-SS2	27-SS1	27-SS2	-	-
	Sample Date:	25-May-26 12:00	25-May-26 12:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-05	2622390-06	2622390-07	2622390-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Hexane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Styrene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Toluene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	<0.02	-	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
4-Bromofluorobenzene	Surrogate	-	96.8%	-	96.7%	-	-
Dibromofluoromethane	Surrogate	-	75.6%	-	72.9%	-	-
Toluene-d8	Surrogate	-	115%	-	118%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	-	5	-	6	-	-
F3 PHCs (C16-C34)	8 ug/g	-	18	-	45	-	-
F4 PHCs (C34-C50)	6 ug/g	-	8	-	45	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	25-SS1	25-SS2	27-SS1	27-SS2	-	-
	Sample Date:	25-May-26 12:00	25-May-26 12:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-05	2622390-06	2622390-07	2622390-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Fluorene	0.02 ug/g	-	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	-	-	-	-
Pyrene	0.02 ug/g	-	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	-	91.6%	-	-	-	-
Terphenyl-d14	Surrogate	-	89.9%	-	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	<0.01	-	<0.01	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	<0.01	-	<0.01	-	-	-
alpha-Chlordane	0.01 ug/g	<0.01	-	<0.01	-	-	-
gamma-Chlordane	0.01 ug/g	<0.01	-	<0.01	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	25-SS1	25-SS2	27-SS1	27-SS2	-	-
	Sample Date:	25-May-26 12:00	25-May-26 12:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-05	2622390-06	2622390-07	2622390-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	<0.01	-	<0.01	-	-	-
o,p'-DDD	0.01 ug/g	<0.01	-	<0.01	-	-	-
p,p'-DDD	0.02 ug/g	<0.02	-	<0.02	-	-	-
DDD	0.02 ug/g	<0.02	-	<0.02	-	-	-
o,p'-DDE	0.01 ug/g	<0.01	-	<0.01	-	-	-
p,p'-DDE	0.01 ug/g	<0.01	-	<0.01	-	-	-
DDE	0.01 ug/g	<0.01	-	<0.01	-	-	-
o,p'-DDT	0.01 ug/g	<0.01	-	<0.01	-	-	-
p,p'-DDT	0.01 ug/g	<0.01	-	<0.01	-	-	-
DDT	0.01 ug/g	<0.01	-	<0.01	-	-	-
Dieldrin	0.02 ug/g	<0.02	-	<0.02	-	-	-
Endrin	0.02 ug/g	<0.02	-	<0.02	-	-	-
Endosulfan I	0.01 ug/g	<0.01	-	<0.01	-	-	-
Endosulfan II	0.02 ug/g	<0.02	-	<0.02	-	-	-
Endosulfan I/II	0.02 ug/g	<0.02	-	<0.02	-	-	-
Heptachlor	0.01 ug/g	<0.01	-	<0.01	-	-	-
Heptachlor epoxide	0.01 ug/g	<0.01	-	<0.01	-	-	-
Hexachlorobenzene	0.01 ug/g	<0.01	-	<0.01	-	-	-
Hexachlorobutadiene	0.01 ug/g	<0.01	-	<0.01	-	-	-
Hexachloroethane	0.01 ug/g	<0.01	-	<0.01	-	-	-
Methoxychlor	0.01 ug/g	<0.01	-	<0.01	-	-	-
Decachlorobiphenyl	Surrogate	73.5%	-	70.0%	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	27-SS3	31-SS3	31-SS4	32-SS3	-	-
	Sample Date:	26-May-26 09:00	25-May-26 09:00	25-May-26 09:00	25-May-26 09:00		
	Sample ID:	2622390-09	2622390-10	2622390-11	2622390-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	87.3	83.1	79.3	87.8	-	-
Metals							
Antimony	1.0 ug/g	-	-	<1.0	-	-	-
Arsenic	1.0 ug/g	-	-	1.6	-	-	-
Barium	1.0 ug/g	-	-	62.6	-	-	-
Beryllium	0.5 ug/g	-	-	<0.5	-	-	-
Boron	5.0 ug/g	-	-	<5.0	-	-	-
Cadmium	0.5 ug/g	-	-	<0.5	-	-	-
Chromium	5.0 ug/g	-	-	18.7	-	-	-
Chromium (VI)	0.2 ug/g	-	-	0.2	-	-	-
Cobalt	1.0 ug/g	-	-	4.8	-	-	-
Copper	5.0 ug/g	-	-	13.5	-	-	-
Lead	1.0 ug/g	-	-	2.7	-	-	-
Mercury	0.1 ug/g	-	-	<0.1	-	-	-
Molybdenum	1.0 ug/g	-	-	<1.0	-	-	-
Nickel	5.0 ug/g	-	-	10.1	-	-	-
Selenium	1.0 ug/g	-	-	<1.0	-	-	-
Silver	0.3 ug/g	-	-	<0.3	-	-	-
Thallium	1.0 ug/g	-	-	<1.0	-	-	-
Uranium	1.0 ug/g	-	-	<1.0	-	-	-
Vanadium	10.0 ug/g	-	-	34.0	-	-	-
Zinc	20.0 ug/g	-	-	26.9	-	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Benzene	0.02 ug/g	-	<0.02	-	<0.02	-	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	27-SS3	31-SS3	31-SS4	32-SS3	-	-
	Sample Date:	26-May-26 09:00	25-May-26 09:00	25-May-26 09:00	25-May-26 09:00		
	Sample ID:	2622390-09	2622390-10	2622390-11	2622390-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Bromoform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromomethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chloroform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	<0.05	-	-
Hexane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	<0.05	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	27-SS3	31-SS3	31-SS4	32-SS3	-	-
	Sample Date:	26-May-26 09:00	25-May-26 09:00	25-May-26 09:00	25-May-26 09:00		
	Sample ID:	2622390-09	2622390-10	2622390-11	2622390-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Styrene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Toluene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	<0.02	-	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
4-Bromofluorobenzene	Surrogate	-	100%	-	95.8%	-	-
Dibromofluoromethane	Surrogate	-	79.4%	-	76.9%	-	-
Toluene-d8	Surrogate	-	120%	-	115%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	-	<4	-	5	-	-
F3 PHCs (C16-C34)	8 ug/g	-	42	-	15	-	-
F4 PHCs (C34-C50)	6 ug/g	-	48	-	14	-	-
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	27-SS3	31-SS3	31-SS4	32-SS3	-	-
	Sample Date:	26-May-26 09:00	25-May-26 09:00	25-May-26 09:00	25-May-26 09:00		
	Sample ID:	2622390-09	2622390-10	2622390-11	2622390-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Benzo [a] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Chrysene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Fluoranthene	0.02 ug/g	0.04	-	<0.02	-	-	-
Fluorene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	<0.04	-	-	-
Naphthalene	0.01 ug/g	<0.01	-	<0.01	-	-	-
Phenanthrene	0.02 ug/g	0.04	-	<0.02	-	-	-
Pyrene	0.02 ug/g	0.03	-	<0.02	-	-	-
2-Fluorobiphenyl	Surrogate	83.0%	-	68.0%	-	-	-
Terphenyl-d14	Surrogate	93.4%	-	72.7%	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	32-SS4	32-SSX	28-SS1	28-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-13	2622390-14	2622390-15	2622390-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	85.7	90.5	86.5	92.0	-	-
General Inorganics							
SAR	0.01 N/A	-	-	0.42	-	-	-
Conductivity	5 uS/cm	-	-	665	-	-	-
Cyanide, free	0.03 ug/g	-	-	<0.03	-	-	-
pH	0.05 pH Units	-	-	7.38	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	<1.0	-	-	-
Arsenic	1.0 ug/g	1.7	-	1.9	-	-	-
Barium	1.0 ug/g	77.1	-	147	-	-	-
Beryllium	0.5 ug/g	<0.5	-	<0.5	-	-	-
Boron	5.0 ug/g	<5.0	-	8.9	-	-	-
Cadmium	0.5 ug/g	<0.5	-	<0.5	-	-	-
Chromium	5.0 ug/g	15.4	-	18.1	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	<0.2	-	-	-
Cobalt	1.0 ug/g	4.9	-	5.9	-	-	-
Copper	5.0 ug/g	9.7	-	14.4	-	-	-
Lead	1.0 ug/g	4.6	-	8.0	-	-	-
Mercury	0.1 ug/g	<0.1	-	<0.1	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	<1.0	-	-	-
Nickel	5.0 ug/g	9.3	-	11.9	-	-	-
Selenium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Silver	0.3 ug/g	<0.3	-	<0.3	-	-	-
Thallium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Uranium	1.0 ug/g	<1.0	-	<1.0	-	-	-
Vanadium	10.0 ug/g	25.0	-	24.2	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	32-SS4	32-SSX	28-SS1	28-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-13	2622390-14	2622390-15	2622390-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	22.7	-	28.0	-	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Benzene	0.02 ug/g	-	<0.02	-	<0.02	-	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromoform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromomethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chloroform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	<0.05	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	32-SS4	32-SSX	28-SS1	28-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-13	2622390-14	2622390-15	2622390-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Hexane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Styrene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Toluene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	<0.02	-	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
4-Bromofluorobenzene	Surrogate	-	93.5%	-	93.6%	-	-
Dibromofluoromethane	Surrogate	-	73.0%	-	72.8%	-	-
Toluene-d8	Surrogate	-	114%	-	113%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	-	<4	-	6	-	-
F3 PHCs (C16-C34)	8 ug/g	-	<8	-	25	-	-
F4 PHCs (C34-C50)	6 ug/g	-	<6	-	17	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	32-SS4	32-SSX	28-SS1	28-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-13	2622390-14	2622390-15	2622390-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Acenaphthylene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Chrysene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Fluoranthene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Fluorene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	<0.04	-	-
Naphthalene	0.01 ug/g	<0.01	-	-	<0.01	-	-
Phenanthrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
Pyrene	0.02 ug/g	<0.02	-	-	<0.02	-	-
2-Fluorobiphenyl	Surrogate	89.8%	-	-	84.8%	-	-
Terphenyl-d14	Surrogate	92.6%	-	-	84.9%	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	-	<0.01	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	-	-	<0.01	-	-	-
alpha-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
gamma-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	32-SS4	32-SSX	28-SS1	28-SS2	-	-
	Sample Date:	25-May-26 09:00	25-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-13	2622390-14	2622390-15	2622390-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
o,p'-DDD	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDD	0.02 ug/g	-	-	<0.02	-	-	-
DDD	0.02 ug/g	-	-	<0.02	-	-	-
o,p'-DDE	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDE	0.01 ug/g	-	-	<0.01	-	-	-
DDE	0.01 ug/g	-	-	<0.01	-	-	-
o,p'-DDT	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDT	0.01 ug/g	-	-	<0.01	-	-	-
DDT	0.01 ug/g	-	-	<0.01	-	-	-
Dieldrin	0.02 ug/g	-	-	<0.02	-	-	-
Endrin	0.02 ug/g	-	-	<0.02	-	-	-
Endosulfan I	0.01 ug/g	-	-	<0.01	-	-	-
Endosulfan II	0.02 ug/g	-	-	<0.02	-	-	-
Endosulfan I/II	0.02 ug/g	-	-	<0.02	-	-	-
Heptachlor	0.01 ug/g	-	-	<0.01	-	-	-
Heptachlor epoxide	0.01 ug/g	-	-	<0.01	-	-	-
Hexachlorobenzene	0.01 ug/g	-	-	<0.01	-	-	-
Hexachlorobutadiene	0.01 ug/g	-	-	<0.01	-	-	-
Hexachloroethane	0.01 ug/g	-	-	<0.01	-	-	-
Methoxychlor	0.01 ug/g	-	-	<0.01	-	-	-
Decachlorobiphenyl	Surrogate	-	-	74.7%	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	29-SS1	29-SS2	29-SS3	29-SSX	-	-
	Sample Date:	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-17	2622390-18	2622390-19	2622390-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	86.4	86.2	86.5	83.9	-	-
General Inorganics							
SAR	0.01 N/A	0.19	-	-	-	-	-
Conductivity	5 uS/cm	232	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.36	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	-	-
Arsenic	1.0 ug/g	2.2	-	-	-	-	-
Barium	1.0 ug/g	103	-	-	-	-	-
Beryllium	0.5 ug/g	<0.5	-	-	-	-	-
Boron	5.0 ug/g	6.8	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-
Chromium	5.0 ug/g	23.1	-	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-
Cobalt	1.0 ug/g	6.0	-	-	-	-	-
Copper	5.0 ug/g	16.5	-	-	-	-	-
Lead	1.0 ug/g	11.8	-	-	-	-	-
Mercury	0.1 ug/g	<0.1	-	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-
Nickel	5.0 ug/g	12.5	-	-	-	-	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-
Vanadium	10.0 ug/g	29.0	-	-	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	29-SS1	29-SS2	29-SS3	29-SSX	-	-
	Sample Date:	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-17	2622390-18	2622390-19	2622390-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Zinc	20.0 ug/g	39.1	-	-	-	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Benzene	0.02 ug/g	-	<0.02	-	<0.02	-	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromoform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Bromomethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Chloroform	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	<0.05	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	29-SS1	29-SS2	29-SS3	29-SSX	-	-
	Sample Date:	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-17	2622390-18	2622390-19	2622390-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Hexane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	<0.05	-	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	<0.05	-	-
Styrene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Toluene	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	<0.05	-	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	<0.02	-	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	<0.05	-	-
4-Bromofluorobenzene	Surrogate	-	96.6%	-	96.8%	-	-
Dibromofluoromethane	Surrogate	-	74.9%	-	78.8%	-	-
Toluene-d8	Surrogate	-	116%	-	118%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	<7	-	-
F2 PHCs (C10-C16)	4 ug/g	-	5	-	5	-	-
F3 PHCs (C16-C34)	8 ug/g	-	37	-	26	-	-
F4 PHCs (C34-C50)	6 ug/g	-	47	-	32	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: LRL Associates Ltd.

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	29-SS1	29-SS2	29-SS3	29-SSX	-	-
	Sample Date:	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-17	2622390-18	2622390-19	2622390-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	-	<0.02	-	-	-
Acenaphthylene	0.02 ug/g	-	-	<0.02	-	-	-
Anthracene	0.02 ug/g	-	-	<0.02	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	-	0.03	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	-	0.03	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	-	0.03	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	-	<0.02	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	-	<0.02	-	-	-
Chrysene	0.02 ug/g	-	-	0.03	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	<0.02	-	-	-
Fluoranthene	0.02 ug/g	-	-	0.06	-	-	-
Fluorene	0.02 ug/g	-	-	<0.02	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	<0.02	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	-	<0.04	-	-	-
Naphthalene	0.01 ug/g	-	-	<0.01	-	-	-
Phenanthrene	0.02 ug/g	-	-	<0.02	-	-	-
Pyrene	0.02 ug/g	-	-	0.06	-	-	-
2-Fluorobiphenyl	Surrogate	-	-	87.9%	-	-	-
Terphenyl-d14	Surrogate	-	-	83.7%	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	<0.01	-	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	<0.01	-	-	-	-	-
alpha-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
gamma-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

	Client ID:	29-SS1	29-SS2	29-SS3	29-SSX	-	-
	Sample Date:	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00	26-May-26 09:00		
	Sample ID:	2622390-17	2622390-18	2622390-19	2622390-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDD	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDD	0.02 ug/g	<0.02	-	-	-	-	-
DDD	0.02 ug/g	<0.02	-	-	-	-	-
o,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
DDE	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
DDT	0.01 ug/g	<0.01	-	-	-	-	-
Dieldrin	0.02 ug/g	<0.02	-	-	-	-	-
Endrin	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I	0.01 ug/g	<0.01	-	-	-	-	-
Endosulfan II	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I/II	0.02 ug/g	<0.02	-	-	-	-	-
Heptachlor	0.01 ug/g	<0.01	-	-	-	-	-
Heptachlor epoxide	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobenzene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachloroethane	0.01 ug/g	<0.01	-	-	-	-	-
Methoxychlor	0.01 ug/g	<0.01	-	-	-	-	-
Decachlorobiphenyl	Surrogate	65.7%	-	-	-	-	-

	Client ID:	24-SS1	24-SS2			-	-
	Sample Date:	26-May-26 12:00	26-May-26 12:00				
	Sample ID:	2622390-21	2622390-22				
	Matrix:	Soil	Soil				
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	88.4	87.7	-	-	-	-
General Inorganics							
SAR	0.01 N/A	0.12	-	-	-	-	-
Conductivity	5 uS/cm	244	-	-	-	-	-
Cyanide, free	0.03 ug/g	<0.03	-	-	-	-	-
pH	0.05 pH Units	7.57	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	-	-
Arsenic	1.0 ug/g	2.1	-	-	-	-	-
Barium	1.0 ug/g	138	-	-	-	-	-
Beryllium	0.5 ug/g	0.5	-	-	-	-	-
Boron	5.0 ug/g	6.7	-	-	-	-	-
Cadmium	0.5 ug/g	<0.5	-	-	-	-	-
Chromium	5.0 ug/g	27.7	-	-	-	-	-
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	-	-
Cobalt	1.0 ug/g	8.0	-	-	-	-	-
Copper	5.0 ug/g	15.9	-	-	-	-	-
Lead	1.0 ug/g	5.4	-	-	-	-	-
Mercury	0.1 ug/g	<0.1	-	-	-	-	-
Molybdenum	1.0 ug/g	<1.0	-	-	-	-	-
Nickel	5.0 ug/g	16.8	-	-	-	-	-
Selenium	1.0 ug/g	<1.0	-	-	-	-	-
Silver	0.3 ug/g	<0.3	-	-	-	-	-
Thallium	1.0 ug/g	<1.0	-	-	-	-	-
Uranium	1.0 ug/g	<1.0	-	-	-	-	-
Vanadium	10.0 ug/g	37.0	-	-	-	-	-

	Client ID:	24-SS1	24-SS2			-	-
	Sample Date:	26-May-26 12:00	26-May-26 12:00				
	Sample ID:	2622390-21	2622390-22				
	Matrix:	Soil	Soil				
	MDL/Units						
Metals							
Zinc	20.0 ug/g	36.3	-	-	-	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	-	-	-
Benzene	0.02 ug/g	-	<0.02	-	-	-	-
Bromodichloromethane	0.05 ug/g	-	<0.05	-	-	-	-
Bromoform	0.05 ug/g	-	<0.05	-	-	-	-
Bromomethane	0.05 ug/g	-	<0.05	-	-	-	-
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	-	-	-
Chlorobenzene	0.05 ug/g	-	<0.05	-	-	-	-
Chloroform	0.05 ug/g	-	<0.05	-	-	-	-
Dibromochloromethane	0.05 ug/g	-	<0.05	-	-	-	-
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	-	-	-
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	-	-
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	-	-
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	-	-
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	-	-	-
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	-	-	-
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	-	-
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	-	-
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	-	-
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	-	-	-
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	-	-	-
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	-	-
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	-	-	-

	Client ID:	24-SS1	24-SS2			-	-
	Sample Date:	26-May-26 12:00	26-May-26 12:00				
	Sample ID:	2622390-21	2622390-22				
	Matrix:	Soil	Soil				
	MDL/Units						
Volatiles							
Hexane	0.05 ug/g	-	<0.05	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	-	-	-
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	-	-	-
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	-	-	-
Methylene Chloride	0.05 ug/g	-	<0.05	-	-	-	-
Styrene	0.05 ug/g	-	<0.05	-	-	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	-	-
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	-	-	-
Toluene	0.05 ug/g	-	<0.05	-	-	-	-
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	-	-	-
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	-	-	-
Trichloroethylene	0.05 ug/g	-	<0.05	-	-	-	-
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	-	-	-
Vinyl chloride	0.02 ug/g	-	<0.02	-	-	-	-
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	-	-	-
4-Bromofluorobenzene	Surrogate	-	95.7%	-	-	-	-
Dibromofluoromethane	Surrogate	-	74.8%	-	-	-	-
Toluene-d8	Surrogate	-	116%	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	-	-	-
F2 PHCs (C10-C16)	4 ug/g	-	<4	-	-	-	-
F3 PHCs (C16-C34)	8 ug/g	-	11	-	-	-	-
F4 PHCs (C34-C50)	6 ug/g	-	11	-	-	-	-

	Client ID:	24-SS1	24-SS2			-	-
	Sample Date:	26-May-26 12:00	26-May-26 12:00				
	Sample ID:	2622390-21	2622390-22				
	Matrix:	Soil	Soil				
	MDL/Units						
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	-	-
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	-	-
Anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	-	-
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Chrysene	0.02 ug/g	-	<0.02	-	-	-	-
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	-	-
Fluoranthene	0.02 ug/g	-	<0.02	-	-	-	-
Fluorene	0.02 ug/g	-	<0.02	-	-	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	-	-
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	-	-
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	-	-
Naphthalene	0.01 ug/g	-	<0.01	-	-	-	-
Phenanthrene	0.02 ug/g	-	<0.02	-	-	-	-
Pyrene	0.02 ug/g	-	<0.02	-	-	-	-
2-Fluorobiphenyl	Surrogate	-	78.0%	-	-	-	-
Terphenyl-d14	Surrogate	-	80.4%	-	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	<0.01	-	-	-	-	-
gamma-BHC (Lindane)	0.01 ug/g	<0.01	-	-	-	-	-
alpha-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
gamma-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-

	Client ID:	24-SS1	24-SS2			-	-
	Sample Date:	26-May-26 12:00	26-May-26 12:00				
	Sample ID:	2622390-21	2622390-22				
	Matrix:	Soil	Soil				
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDD	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDD	0.02 ug/g	<0.02	-	-	-	-	-
DDD	0.02 ug/g	<0.02	-	-	-	-	-
o,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
DDE	0.01 ug/g	<0.01	-	-	-	-	-
o,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
DDT	0.01 ug/g	<0.01	-	-	-	-	-
Dieldrin	0.02 ug/g	<0.02	-	-	-	-	-
Endrin	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I	0.01 ug/g	<0.01	-	-	-	-	-
Endosulfan II	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I/II	0.02 ug/g	<0.02	-	-	-	-	-
Heptachlor	0.01 ug/g	<0.01	-	-	-	-	-
Heptachlor epoxide	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobenzene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachlorobutadiene	0.01 ug/g	<0.01	-	-	-	-	-
Hexachloroethane	0.01 ug/g	<0.01	-	-	-	-	-
Methoxychlor	0.01 ug/g	<0.01	-	-	-	-	-
Decachlorobiphenyl	Surrogate	69.5%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Chromium (VI)	ND	0.2	ug/g					
Mercury	ND	0.1	ug/g					
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Pesticides, OC								
Aldrin	ND	0.01	ug/g					
gamma-BHC (Lindane)	ND	0.01	ug/g					
alpha-Chlordane	ND	0.01	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
gamma-Chlordane	ND	0.01	ug/g					
Chlordane	ND	0.01	ug/g					
o,p'-DDD	ND	0.01	ug/g					
p,p'-DDD	ND	0.02	ug/g					
DDD	ND	0.02	ug/g					
o,p'-DDE	ND	0.01	ug/g					
p,p'-DDE	ND	0.01	ug/g					
DDE	ND	0.01	ug/g					
o,p'-DDT	ND	0.01	ug/g					
p,p'-DDT	ND	0.01	ug/g					
DDT	ND	0.01	ug/g					
Dieldrin	ND	0.02	ug/g					
Endrin	ND	0.02	ug/g					
Endosulfan I	ND	0.01	ug/g					
Endosulfan II	ND	0.02	ug/g					
Endosulfan I/II	ND	0.02	ug/g					
Heptachlor	ND	0.01	ug/g					
Heptachlor epoxide	ND	0.01	ug/g					
Hexachlorobenzene	ND	0.01	ug/g					
Hexachlorobutadiene	ND	0.01	ug/g					
Hexachloroethane	ND	0.01	ug/g					
Methoxychlor	ND	0.01	ug/g					
Surrogate: Decachlorobiphenyl	*0.0389*		*%*	*77.8*	*50-140*			
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*1.08*		*%*	*80.7*	*50-140*			
Surrogate: Terphenyl-d14	*1.28*		*%*	*96.3*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*7.35*		*%*	*91.9*	*50-140*			
Surrogate: Dibromofluoromethane	*4.96*		*%*	*62.0*	*50-140*			
Surrogate: Toluene-d8	*8.95*		*%*	*112*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	0.08	0.01	N/A	0.08			0.0	30	
Conductivity	177	5	uS/cm	177			0.2	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.28	0.05	pH Units	7.24			0.6	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	20	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	269	40	ug/g	477			55.8	30	QR-04
F4 PHCs (C34-C50)	218	30	ug/g	692			104.0	30	QR-04
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	2.7	1.0	ug/g	2.9			7.6	30	
Barium	94.0	1.0	ug/g	102			8.2	30	
Beryllium	ND	0.5	ug/g	0.5			NC	30	
Boron	5.8	5.0	ug/g	6.2			7.6	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	29.2	5.0	ug/g	31.6			7.9	30	
Cobalt	8.4	1.0	ug/g	9.0			6.7	30	
Copper	18.7	5.0	ug/g	20.1			7.3	30	
Lead	17.0	1.0	ug/g	18.1			6.0	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	20.5	5.0	ug/g	21.8			6.2	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	31.2	10.0	ug/g	33.9			8.1	30	
Zinc	47.7	20.0	ug/g	51.3			7.3	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Pesticides, OC									
Aldrin	ND	0.01	ug/g	ND			NC	40	
gamma-BHC (Lindane)	ND	0.01	ug/g	ND			NC	40	
alpha-Chlordane	ND	0.01	ug/g	ND			NC	40	
gamma-Chlordane	ND	0.01	ug/g	ND			NC	40	
o,p'-DDD	ND	0.01	ug/g	ND			NC	40	
p,p'-DDD	ND	0.02	ug/g	ND			NC	40	
o,p'-DDE	ND	0.01	ug/g	ND			NC	40	
p,p'-DDE	ND	0.01	ug/g	ND			NC	40	
o,p'-DDT	ND	0.01	ug/g	ND			NC	40	
p,p'-DDT	ND	0.01	ug/g	ND			NC	40	
Dieldrin	ND	0.02	ug/g	ND			NC	40	
Endrin	ND	0.02	ug/g	ND			NC	40	
Endosulfan I	ND	0.01	ug/g	ND			NC	40	
Endosulfan II	ND	0.02	ug/g	ND			NC	40	
Heptachlor	ND	0.01	ug/g	ND			NC	40	
Heptachlor epoxide	ND	0.01	ug/g	ND			NC	40	
Hexachlorobenzene	ND	0.01	ug/g	ND			NC	40	
Hexachlorobutadiene	ND	0.01	ug/g	ND			NC	40	
Hexachloroethane	ND	0.01	ug/g	ND			NC	40	
Methoxychlor	ND	0.01	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.0425*		*%*		*74.5*	*50-140*			
Physical Characteristics									
% Solids	93.6	0.1	% by Wt.	93.0			0.6	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*1.11*		*%*		*73.3*	*50-140*			
Surrogate: Terphenyl-d14	*1.22*		*%*		*80.2*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	0.194	0.02	ug/g	0.195			0.6	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	0.166	0.05	ug/g	0.172			3.6	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	0.828	0.05	ug/g	0.846			2.2	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	0.419	0.05	ug/g	0.439			4.6	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	0.228	0.05	ug/g	0.242			6.3	50	
o-Xylene	0.172	0.05	ug/g	0.181			4.9	50	
Surrogate: 4-Bromofluorobenzene	*8.59*		*%*		*94.4*	*50-140*			
Surrogate: Dibromofluoromethane	*6.81*		*%*		*74.9*	*50-140*			
Surrogate: Toluene-d8	*10.5*		*%*		*116*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.256	0.03	ug/g	ND	73.9	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	197	7	ug/g	ND	98.6	85-115			
F2 PHCs (C10-C16)	87	4	ug/g	5	98.0	60-140			
F3 PHCs (C16-C34)	241	8	ug/g	14	111	60-140			
F4 PHCs (C34-C50)	166	6	ug/g	14	117	60-140			
Metals									
Antimony	35.5	1.0	ug/g	ND	70.9	70-130			
Arsenic	42.7	1.0	ug/g	1.2	83.0	70-130			
Barium	84.0	1.0	ug/g	40.8	86.4	70-130			
Beryllium	44.4	0.5	ug/g	ND	88.5	70-130			
Boron	47.7	5.0	ug/g	ND	90.4	70-130			
Cadmium	40.8	0.5	ug/g	ND	81.6	70-130			
Chromium (VI)	5.2	0.2	ug/g	ND	104	66-118			
Chromium	56.4	5.0	ug/g	12.6	87.5	70-130			
Cobalt	46.4	1.0	ug/g	3.6	85.5	70-130			
Copper	49.1	5.0	ug/g	8.0	82.2	70-130			
Lead	49.8	1.0	ug/g	7.2	85.1	70-130			
Mercury	1.43	0.1	ug/g	ND	95.5	70-130			
Molybdenum	41.5	1.0	ug/g	ND	82.4	70-130			
Nickel	51.1	5.0	ug/g	8.7	84.6	70-130			
Selenium	42.7	1.0	ug/g	ND	85.2	70-130			
Silver	38.7	0.3	ug/g	ND	77.4	70-130			
Thallium	41.5	1.0	ug/g	ND	82.9	70-130			
Uranium	42.4	1.0	ug/g	ND	84.3	70-130			
Vanadium	57.7	10.0	ug/g	13.5	88.3	70-130			
Zinc	61.5	20.0	ug/g	20.5	81.9	70-130			
Pesticides, OC									
Aldrin	0.14	0.01	ug/g	ND	63.1	50-140			
gamma-BHC (Lindane)	0.15	0.01	ug/g	ND	66.8	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
alpha-Chlordane	0.13	0.01	ug/g	ND	59.0	50-140			
gamma-Chlordane	0.14	0.01	ug/g	ND	59.2	50-140			
o,p'-DDD	0.15	0.01	ug/g	ND	65.2	50-140			
p,p'-DDD	0.21	0.02	ug/g	ND	93.8	50-140			
o,p'-DDE	0.13	0.01	ug/g	ND	54.9	50-140			
p,p'-DDE	0.15	0.01	ug/g	ND	63.6	50-140			
o,p'-DDT	0.17	0.01	ug/g	ND	74.1	50-140			
p,p'-DDT	0.22	0.01	ug/g	ND	95.1	50-140			
Dieldrin	0.13	0.02	ug/g	ND	59.1	50-140			
Endosulfan I	0.14	0.01	ug/g	ND	63.3	50-140			
Endosulfan II	0.13	0.02	ug/g	ND	55.9	50-140			
Heptachlor	0.16	0.01	ug/g	ND	71.7	50-140			
Heptachlor epoxide	0.15	0.01	ug/g	ND	64.0	50-140			
Hexachlorobenzene	0.18	0.01	ug/g	ND	80.8	50-140			
Hexachlorobutadiene	0.13	0.01	ug/g	ND	57.0	50-140			
Hexachloroethane	0.16	0.01	ug/g	ND	70.9	50-140			
Methoxychlor	0.24	0.01	ug/g	ND	107	50-140			
Surrogate: Decachlorobiphenyl	*0.0444*		*%*		*77.8*	*50-140*			
Semi-Volatiles									
Acenaphthene	0.188	0.02	ug/g	ND	99.2	50-140			
Acenaphthylene	0.172	0.02	ug/g	ND	91.0	50-140			
Anthracene	0.120	0.02	ug/g	ND	63.1	50-140			
Benzo [a] anthracene	0.163	0.02	ug/g	ND	85.8	50-140			
Benzo [a] pyrene	0.164	0.02	ug/g	ND	86.3	50-140			
Benzo [b] fluoranthene	0.157	0.02	ug/g	ND	82.9	50-140			
Benzo [g,h,i] perylene	0.143	0.02	ug/g	ND	75.2	50-140			
Benzo [k] fluoranthene	0.138	0.02	ug/g	ND	73.1	50-140			
Chrysene	0.191	0.02	ug/g	ND	101	50-140			
Dibenzo [a,h] anthracene	0.132	0.02	ug/g	ND	69.4	50-140			
Fluoranthene	0.153	0.02	ug/g	ND	80.5	50-140			
Fluorene	0.174	0.02	ug/g	ND	91.8	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Indeno [1,2,3-cd] pyrene	0.128	0.02	ug/g	ND	67.7	50-140			
1-Methylnaphthalene	0.122	0.02	ug/g	ND	64.2	50-140			
2-Methylnaphthalene	0.116	0.02	ug/g	ND	61.2	50-140			
Naphthalene	0.139	0.01	ug/g	ND	73.3	50-140			
Phenanthrene	0.175	0.02	ug/g	ND	92.5	50-140			
Pyrene	0.153	0.02	ug/g	ND	80.6	50-140			
Surrogate: 2-Fluorobiphenyl	*0.917*		*%*		*60.5*	*50-140*			
Surrogate: Terphenyl-d14	*1.10*		*%*		*72.7*	*50-140*			
Volatiles									
Acetone	8.97	0.50	ug/g	ND	89.7	50-140			
Benzene	2.52	0.02	ug/g	ND	63.1	60-130			
Bromodichloromethane	4.52	0.05	ug/g	ND	113	60-130			
Bromoform	2.88	0.05	ug/g	ND	72.0	60-130			
Bromomethane	2.61	0.05	ug/g	ND	65.1	50-140			
Carbon Tetrachloride	2.47	0.05	ug/g	ND	61.7	60-130			
Chlorobenzene	3.48	0.05	ug/g	ND	87.0	60-130			
Chloroform	3.92	0.05	ug/g	ND	97.9	60-130			
Dibromochloromethane	2.98	0.05	ug/g	ND	74.5	60-130			
Dichlorodifluoromethane	3.41	0.05	ug/g	ND	85.3	50-140			
1,2-Dichlorobenzene	3.40	0.05	ug/g	ND	84.9	60-130			
1,3-Dichlorobenzene	3.48	0.05	ug/g	ND	87.0	60-130			
1,4-Dichlorobenzene	3.46	0.05	ug/g	ND	86.4	60-130			
1,1-Dichloroethane	3.14	0.05	ug/g	ND	78.4	60-130			
1,2-Dichloroethane	3.06	0.05	ug/g	ND	76.4	60-130			
1,1-Dichloroethylene	3.97	0.05	ug/g	ND	99.2	60-130			
cis-1,2-Dichloroethylene	3.59	0.05	ug/g	ND	89.6	60-130			
trans-1,2-Dichloroethylene	2.97	0.05	ug/g	ND	74.3	60-130			
1,2-Dichloropropane	2.76	0.05	ug/g	ND	69.1	60-130			
cis-1,3-Dichloropropylene	3.32	0.05	ug/g	ND	83.0	60-130			
trans-1,3-Dichloropropylene	2.60	0.05	ug/g	ND	64.9	60-130			
Ethylbenzene	4.18	0.05	ug/g	ND	104	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Ethylene dibromide (dibromoethane, 1,2-)	3.97	0.05	ug/g	ND	99.3	60-130			
Hexane	2.64	0.05	ug/g	ND	66.0	60-130			
Methyl Ethyl Ketone (2-Butanone)	9.48	0.50	ug/g	ND	94.8	50-140			
Methyl Isobutyl Ketone	6.31	0.50	ug/g	ND	63.1	50-140			
Methyl tert-butyl ether	6.49	0.05	ug/g	ND	64.9	50-140			
Methylene Chloride	2.60	0.05	ug/g	ND	65.0	60-130			
Styrene	4.03	0.05	ug/g	ND	101	60-130			
1,1,1,2-Tetrachloroethane	2.92	0.05	ug/g	ND	73.1	60-130			
1,1,2,2-Tetrachloroethane	2.44	0.05	ug/g	ND	61.0	60-130			
Tetrachloroethylene	3.27	0.05	ug/g	ND	81.8	60-130			
Toluene	4.04	0.05	ug/g	ND	101	60-130			
1,1,1-Trichloroethane	2.50	0.05	ug/g	ND	62.4	60-130			
1,1,2-Trichloroethane	3.16	0.05	ug/g	ND	78.9	60-130			
Trichloroethylene	2.52	0.05	ug/g	ND	62.9	60-130			
Trichlorofluoromethane	2.42	0.05	ug/g	ND	60.5	50-140			
Vinyl chloride	4.21	0.02	ug/g	ND	105	50-140			
m,p-Xylenes	8.52	0.05	ug/g	ND	106	60-130			
o-Xylene	4.33	0.05	ug/g	ND	108	60-130			
Surrogate: 4-Bromofluorobenzene	*6.81*		*%*		*85.2*	*50-140*			
Surrogate: Dibromofluoromethane	*5.97*		*%*		*74.6*	*50-140*			
Surrogate: Toluene-d8	*8.97*		*%*		*112*	*50-140*			

Qualifier Notes:

QC Qualifiers:

QR-04	Duplicate results exceeds RPD limits due to non-homogeneous matrix.

Sample Data Revisions:

None

Certificate of Analysis

Report Date: 03-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 28-May-2026

Client PO:

Project Description: 240720

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

Benzo[b]fluoranthene results may be biased high due to co-elution with Benzo[j]fluoranthene

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2622390

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2622390	Nº 151310

Client Name: LRL Associates Ltd
Contact Name: Eric Lavergne
Address: 5430 Canotek Road
Telephone: 613 842 3434

Project Ref: 240720
Quote #:
PO #:
E-mail: elavergne@lrl.ca

Page 1 of 3

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Heavy Metals by ICP	Hg	CrVI	B (HWE)	OC Pesticides	General Inorganics		
1	30-SS4	S		2		May 25	AM	X	X									
2	30-SS5	↓		↓		↓	PM			X	X	X	X					
3	26-SS1						PM			X					X			
4	26-SS2						PM	X	X		X	X	X			X		
5	25-SS1						PM				X	X	X		X	X		
6	25-SS2					↓	PM	X	X	X								
7	27-SS1					May 26	AM				X	X	X		X	X		
8	27-SS2					May 26	AM	X	X									
9	27-SS3					May 25	AM			X								
10	31-SS3	↓		↓		May 25	AM	X	X									

Comments: General Inorganics to include pH, SAR, Conductivity, free cyanide.

Method of Delivery: Walk In

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Eric Lavergne	Date/Time:	Date/Time: May 28/26 10:10	Date/Time: May 28/26 11:36
Date/Time: May 27, 2026	Temperature: °C	Temperature: 18.2	pH Verified: ☐ By:

PARACEL LABORATORIES LTD.

Paracel ID: 2622390

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2622390	Nº 151309

Client Name: LRL Associates Ltd.
Contact Name: Eric Lavergne
Address: 5430 Canotek Road
Telephone: 613 842 3434

Project Ref: 240720
Quote #:
PO #:
E-mail: elavergne@lrl.ca

Page 2 of 3

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP (Heavy)	Hg	CrVI	B (HWE)	OC Pesticides	General Inorganics		
1	31-SS4	S		2		May 25	AM			X	X	X	X					
2	32-SS3							X	X									
3	32-SS4									X	X	X	X					
4	32-SSX							X	X									
5	28-SS1					May 26					X	X	X		X	X		
6	28-SS2							X	X	X								
7	29-SS1										X	X	X		X	X		
8	29-SS2							X	X									
9	29-SS3									X								
10	29-SSX							X	X									

Comments:

Method of Delivery: walk IN

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Relinquished By (Sign):	Received at Depot:	Received at Lab: Wds	Verified By:
Relinquished By (Print):	Date/Time:	Date/Time: May 28 10:10	Date/Time: May 28/26 11:36
Date/Time:	Temperature: °C	Temperature: 18.2	pH Verified: ☐ By:

Chain of Custody (Env). xlsx - Revision 7.0

PARACEL LABORATORIES LTD

Paracel ID: 2622390

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2622390	Nº 151308

Client Name: LRL Associates Ltd.
Contact Name: Eric Lavergne
Address: 5430 Canotek Road
Telephone: 613 842 3434

Project Ref: 240720
Quote #:
PO #:
E-mail: elavergne@lrl.ca

Page 3 of 3

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☐ Agri/Other ☐ Med/Fine
☐ Table 2 ☐ Res/Park ☐ Coarse
☒ Table 3 ☐ Ind/Comm
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Field Filtered	Sample Taken: Date	Sample Taken: Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWE)	OC Pesticides	General Inorganics		
1	24-SS1	S		2		May 26	PM				X	X	X		X	X		
2	24-SS2	S		2		May 26	PM	X	X	X								
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Walk In

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print):	Date/Time:	Date/Time: May 28/26 10:10	Date/Time: May 28/26 11:36
Date/Time:	Temperature: °C	Temperature: 18.2	pH Verified: ☐ By:

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Certificate of Analysis

LRL Associates Ltd.
5430 Canotek Road
Ottawa, ON K1J 9G2
Attn: Eric Lavergne

Client PO:
Project: 240720
Custody: 146557

Report Date: 4-Jun-2026
Order Date: 29-May-2026

Order #: 2623041

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2623041-01	MW32
2623041-02	MW27
2623041-03	MWX
2623041-04	Trip Blank

Approved By:

Mark Foto, M.Sc.
Laboratory Director

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	Ottawa	2-Jun-26	2-Jun-26
Chromium, hexavalent - water	MOE E3056 - colourimetric	Ottawa	4-Jun-26	4-Jun-26
Cyanide, free	MOE E3015 - Auto Colour	Ottawa	1-Jun-26	1-Jun-26
Mercury by CVAA	EPA 245.2 - Cold Vapour AA	Ottawa	2-Jun-26	2-Jun-26
Metals, ICP-MS	EPA 200.8 - ICP-MS	Ottawa	2-Jun-26	3-Jun-26
pH	SM 4500-H+	Ottawa	2-Jun-26	2-Jun-26
PHC F1	CWS Tier 1 - P&T GC-FID	Ottawa	2-Jun-26	2-Jun-26
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	Ottawa	3-Jun-26	3-Jun-26
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	Ottawa	4-Jun-26	4-Jun-26
REG 153: Pesticides, OC	EPA 8081B - GC-ECD	Ottawa	2-Jun-26	3-Jun-26
REG 153: VOCs by P&T GC/MS	EPA 624 - P&T GC-MS	Ottawa	2-Jun-26	2-Jun-26

Certificate of Analysis

Report Date: 04-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 29-May-2026

Client PO:

Project Description: 240720

	Client ID:	MW32	MW27	MWX	Trip Blank	-	-
	Sample Date:	29-May-26 02:00	29-May-26 02:30	29-May-26 02:00	27-May-26 09:00		
	Sample ID:	2623041-01	2623041-02	2623041-03	2623041-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Water		
	MDL/Units						
General Inorganics							
Cyanide, free	2 ug/L	<2	<2	<2	-	-	-
pH	0.1 pH Units	7.0	6.8	7.1	-	-	-
Anions							
Chloride	1 mg/L	8	17	8	-	-	-
Metals							
Mercury	0.1 ug/L	<0.1	<0.1	<0.1	-	-	-
Antimony	0.5 ug/L	0.8	<0.5	<0.5	-	-	-
Arsenic	1 ug/L	<1	<1	<1	-	-	-
Barium	1 ug/L	466	141	467	-	-	-
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
Boron	10 ug/L	16	131	16	-	-	-
Cadmium	0.1 ug/L	<0.1	<0.1	<0.1	-	-	-
Chromium	1 ug/L	<1	<1	<1	-	-	-
Chromium (VI)	10 ug/L	<10	<10	<10	-	-	-
Cobalt	0.5 ug/L	14.8	12.2	15.1	-	-	-
Copper	0.5 ug/L	11.9	0.9	12.2	-	-	-
Lead	0.1 ug/L	<0.1	0.1	<0.1	-	-	-
Molybdenum	0.5 ug/L	0.8	0.8	0.7	-	-	-
Nickel	1 ug/L	22	8	22	-	-	-
Selenium	1 ug/L	<1	<1	<1	-	-	-
Silver	0.1 ug/L	<0.1	<0.1	<0.1	-	-	-
Sodium	200 ug/L	9720	58700	9530	-	-	-
Thallium	0.1 ug/L	<0.1	<0.1	<0.1	-	-	-
Uranium	0.1 ug/L	1.8	3.4	1.5	-	-	-
Vanadium	0.5 ug/L	1.3	0.7	1.4	-	-	-
Zinc	5 ug/L	<5	6	6	-	-	-

Certificate of Analysis

Report Date: 04-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 29-May-2026

Client PO:

Project Description: 240720

	Client ID:	MW32	MW27	MWX	Trip Blank	-	-
	Sample Date:	29-May-26 02:00	29-May-26 02:30	29-May-26 02:00	27-May-26 09:00		
	Sample ID:	2623041-01	2623041-02	2623041-03	2623041-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Water		
	MDL/Units						
Volatiles							
Acetone	5.0 ug/L	33.0	9.5	34.3	<5.0	-	-
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	1.0	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	<0.2	<0.2	<0.2	-	-
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	-	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	5.4	<5.0	-	-

Certificate of Analysis

Report Date: 04-Jun-2026

Client: LRL Associates Ltd.

Order Date: 29-May-2026

Client PO:

Project Description: 240720

	Client ID:	MW32	MW27	MWX	Trip Blank	-	-
	Sample Date:	29-May-26 02:00	29-May-26 02:30	29-May-26 02:00	27-May-26 09:00		
	Sample ID:	2623041-01	2623041-02	2623041-03	2623041-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Water		
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	<5.0	-	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	<2.0	-	-
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	<5.0	-	-
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Trichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	-	-
Vinyl chloride	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
Xylenes, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate	78.8%	78.8%	76.2%	79.6%	-	-
Dibromofluoromethane	Surrogate	93.1%	94.1%	94.9%	95.6%	-	-
Toluene-d8	Surrogate	103%	103%	105%	108%	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	-	-	-
F2 PHCs (C10-C16)	100 ug/L	<100	<100	<100	-	-	-
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	-	-	-
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	-	-	-
Semi-Volatiles							
Acenaphthene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-

Certificate of Analysis

Report Date: 04-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 29-May-2026

Client PO:

Project Description: 240720

	Client ID:	MW32	MW27	MWX	Trip Blank	-	-
	Sample Date:	29-May-26 02:00	29-May-26 02:30	29-May-26 02:00	27-May-26 09:00		
	Sample ID:	2623041-01	2623041-02	2623041-03	2623041-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Water		
	MDL/Units						
Semi-Volatiles							
Acenaphthylene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Anthracene	0.01 ug/L	<0.01	0.01	<0.01	-	-	-
Benzo [a] anthracene	0.01 ug/L	<0.01	0.05	<0.01	-	-	-
Benzo [a] pyrene	0.01 ug/L	<0.01	0.06	<0.01	-	-	-
Benzo [b] fluoranthene	0.05 ug/L	<0.05	0.11	<0.05	-	-	-
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Benzo [k] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Chrysene	0.05 ug/L	<0.05	0.07	<0.05	-	-	-
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Fluoranthene	0.01 ug/L	<0.01	0.10	0.04	-	-	-
Fluorene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Indeno [1,2,3-cd] pyrene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
1-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
2-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Methylnaphthalene (1&2)	0.10 ug/L	<0.10	<0.10	<0.10	-	-	-
Naphthalene	0.05 ug/L	<0.05	<0.05	<0.05	-	-	-
Phenanthrene	0.05 ug/L	<0.05	0.08	0.11	-	-	-
Pyrene	0.01 ug/L	<0.01	0.08	0.05	-	-	-
2-Fluorobiphenyl	Surrogate	80.8%	90.3%	84.6%	-	-	-
Terphenyl-d14	Surrogate	91.0%	96.6%	90.7%	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/L	0.02	<0.01	<0.01	-	-	-
gamma-BHC (Lindane)	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
alpha-Chlordane	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
gamma-Chlordane	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Chlordane	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-

Certificate of Analysis

Report Date: 04-Jun-2026

Client: **LRL Associates Ltd.**

Order Date: 29-May-2026

Client PO:

Project Description: 240720

	Client ID:	MW32	MW27	MWX	Trip Blank	-	-
	Sample Date:	29-May-26 02:00	29-May-26 02:30	29-May-26 02:00	27-May-26 09:00		
	Sample ID:	2623041-01	2623041-02	2623041-03	2623041-04		
	Matrix:	Ground Water	Ground Water	Ground Water	Water		
	MDL/Units						
Pesticides, OC							
o,p'-DDD	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
p,p'-DDD	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
DDD	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
o,p'-DDE	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
p,p'-DDE	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
DDE	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
o,p'-DDT	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
p,p'-DDT	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
DDT	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Dieldrin	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Endrin	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Endosulfan I	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Endosulfan II	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Endosulfan I/II	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Heptachlor	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Heptachlor epoxide	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Hexachlorobenzene	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Hexachlorobutadiene	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Hexachloroethane	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Methoxychlor	0.01 ug/L	<0.01	<0.01	<0.01	-	-	-
Decachlorobiphenyl	Surrogate	72.4%	73.8%	69.1%	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions								
Chloride	ND	1	mg/L					
General Inorganics								
Cyanide, free	ND	2	ug/L					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Antimony	ND	0.5	ug/L					
Arsenic	ND	1	ug/L					
Barium	ND	1	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10	ug/L					
Cadmium	ND	0.1	ug/L					
Chromium	ND	1	ug/L					
Chromium (VI)	ND	10	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.1	ug/L					
Mercury	ND	0.1	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1	ug/L					
Selenium	ND	1	ug/L					
Silver	ND	0.1	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.1	ug/L					
Uranium	ND	0.1	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5	ug/L					
Pesticides, OC								
Aldrin	ND	0.01	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
gamma-BHC (Lindane)	ND	0.01	ug/L					
alpha-Chlordane	ND	0.01	ug/L					
gamma-Chlordane	ND	0.01	ug/L					
Chlordane	ND	0.01	ug/L					
o,p'-DDD	ND	0.01	ug/L					
p,p'-DDD	ND	0.01	ug/L					
DDD	ND	0.01	ug/L					
o,p'-DDE	ND	0.01	ug/L					
p,p'-DDE	ND	0.01	ug/L					
DDE	ND	0.01	ug/L					
o,p'-DDT	ND	0.01	ug/L					
p,p'-DDT	ND	0.01	ug/L					
DDT	ND	0.01	ug/L					
Dieldrin	ND	0.01	ug/L					
Endrin	ND	0.01	ug/L					
Endosulfan I	ND	0.01	ug/L					
Endosulfan II	ND	0.01	ug/L					
Endosulfan I/II	ND	0.01	ug/L					
Heptachlor	ND	0.01	ug/L					
Heptachlor epoxide	ND	0.01	ug/L					
Hexachlorobenzene	ND	0.01	ug/L					
Hexachlorobutadiene	ND	0.01	ug/L					
Hexachloroethane	ND	0.01	ug/L					
Methoxychlor	ND	0.01	ug/L					
Surrogate: Decachlorobiphenyl	*0.252*		*%*	*101*	*50-140*			
Semi-Volatiles								
Acenaphthene	ND	0.05	ug/L					
Acenaphthylene	ND	0.05	ug/L					
Anthracene	ND	0.01	ug/L					
Benzo [a] anthracene	ND	0.01	ug/L					
Benzo [a] pyrene	ND	0.01	ug/L					
Benzo [b] fluoranthene	ND	0.05	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [g,h,i] perylene	ND	0.05	ug/L					
Benzo [k] fluoranthene	ND	0.05	ug/L					
Chrysene	ND	0.05	ug/L					
Dibenzo [a,h] anthracene	ND	0.05	ug/L					
Fluoranthene	ND	0.01	ug/L					
Fluorene	ND	0.05	ug/L					
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L					
1-Methylnaphthalene	ND	0.05	ug/L					
2-Methylnaphthalene	ND	0.05	ug/L					
Methylnaphthalene (1&2)	ND	0.10	ug/L					
Naphthalene	ND	0.05	ug/L					
Phenanthrene	ND	0.05	ug/L					
Pyrene	ND	0.01	ug/L					
Surrogate: 2-Fluorobiphenyl	*7.50*		*%*	*75.0*	*50-140*			
Surrogate: Terphenyl-d14	*8.62*		*%*	*86.2*	*50-140*			
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
cis-1,2-Dichloroethylene	ND	0.5	ug/L					
trans-1,2-Dichloroethylene	ND	0.5	ug/L					
1,2-Dichloropropane	ND	0.5	ug/L					
cis-1,3-Dichloropropylene	ND	0.5	ug/L					
trans-1,3-Dichloropropylene	ND	0.5	ug/L					
1,3-Dichloropropene, total	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	ND	0.5	ug/L					
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L					
Tetrachloroethylene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.5	ug/L					
Surrogate: 4-Bromofluorobenzene	*72.3*		*%*	*90.4*	*50-140*			
Surrogate: Dibromofluoromethane	*71.5*		*%*	*89.3*	*50-140*			
Surrogate: Toluene-d8	*81.2*		*%*	*102*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	188	1	mg/L	188			0.0	20	
General Inorganics									
Cyanide, free	2.8	2	ug/L	2.7			1.1	20	
pH	7.9	0.1	pH Units	7.9			0.4	3.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
F2 PHCs (C10-C16)	ND	100	ug/L	ND			NC	30	
F3 PHCs (C16-C34)	ND	100	ug/L	ND			NC	30	
F4 PHCs (C34-C50)	ND	100	ug/L	ND			NC	30	
Metals									
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	0.62	0.5	ug/L	ND			NC	20	
Arsenic	ND	1	ug/L	ND			NC	20	
Barium	ND	1	ug/L	ND			NC	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	ND	10	ug/L	ND			NC	20	
Cadmium	ND	0.1	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1	ug/L	ND			NC	20	
Cobalt	ND	0.5	ug/L	ND			NC	20	
Copper	ND	0.5	ug/L	ND			NC	20	
Lead	ND	0.1	ug/L	ND			NC	20	
Molybdenum	ND	0.5	ug/L	ND			NC	20	
Nickel	ND	1	ug/L	ND			NC	20	
Selenium	ND	1	ug/L	ND			NC	20	
Silver	ND	0.1	ug/L	ND			NC	20	
Sodium	ND	200	ug/L	ND			NC	20	
Thallium	ND	0.1	ug/L	ND			NC	20	
Uranium	ND	0.1	ug/L	ND			NC	20	
Vanadium	ND	0.5	ug/L	ND			NC	20	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	ND	5	ug/L	ND			NC	20	
Semi-Volatiles									
Acenaphthene	ND	0.05	ug/L	ND			NC	30	
Acenaphthylene	ND	0.05	ug/L	ND			NC	30	
Anthracene	ND	0.01	ug/L	ND			NC	30	
Benzo [a] anthracene	ND	0.01	ug/L	ND			NC	30	
Benzo [a] pyrene	ND	0.01	ug/L	ND			NC	30	
Benzo [b] fluoranthene	ND	0.05	ug/L	ND			NC	30	
Benzo [g,h,i] perylene	ND	0.05	ug/L	ND			NC	30	
Benzo [k] fluoranthene	ND	0.05	ug/L	ND			NC	30	
Chrysene	ND	0.05	ug/L	ND			NC	30	
Dibenzo [a,h] anthracene	ND	0.05	ug/L	ND			NC	30	
Fluoranthene	ND	0.01	ug/L	ND			NC	30	
Fluorene	ND	0.05	ug/L	ND			NC	30	
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L	ND			NC	30	
1-Methylnaphthalene	ND	0.05	ug/L	ND			NC	30	
2-Methylnaphthalene	ND	0.05	ug/L	ND			NC	30	
Naphthalene	ND	0.05	ug/L	ND			NC	30	
Phenanthrene	ND	0.05	ug/L	ND			NC	30	
Pyrene	ND	0.01	ug/L	ND			NC	30	
Surrogate: 2-Fluorobiphenyl	*7.06*		*%*		*72.7*	*50-140*			
Surrogate: Terphenyl-d14	*7.95*		*%*		*81.9*	*50-140*			
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*63.7*		*%*		*79.7*	*50-140*			
Surrogate: Dibromofluoromethane	*78.7*		*%*		*98.4*	*50-140*			
Surrogate: Toluene-d8	*83.8*		*%*		*105*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	197	1	mg/L	188	89.7	70-124			
General Inorganics									
Cyanide, free	55.8	2	ug/L	2.7	106	70-130			
Hydrocarbons									
F1 PHCs (C6-C10)	1880	25	ug/L	ND	94.0	85-115			
F2 PHCs (C10-C16)	1800	100	ug/L	997	50.2	60-140			QM-05
F3 PHCs (C16-C34)	4290	100	ug/L	810	88.9	60-140			
F4 PHCs (C34-C50)	2360	100	ug/L	ND	95.3	60-140			
Metals									
Mercury	2.34	0.1	ug/L	ND	77.9	70-130			
Antimony	39.8	0.5	ug/L	ND	79.6	80-120			QM-07
Arsenic	48.5	1	ug/L	ND	96.9	80-120			
Barium	47.2	1	ug/L	ND	93.9	80-120			
Beryllium	53.9	0.5	ug/L	ND	108	80-120			
Boron	56	10	ug/L	ND	108	80-120			
Cadmium	51.3	0.1	ug/L	ND	103	80-120			
Chromium (VI)	205	10	ug/L	ND	102	75-115			
Chromium	49.8	1	ug/L	ND	99.6	80-120			
Cobalt	50.4	0.5	ug/L	ND	101	80-120			
Copper	51.5	0.5	ug/L	ND	103	80-120			
Lead	49.1	0.1	ug/L	ND	98.2	80-120			
Molybdenum	46.9	0.5	ug/L	ND	93.8	80-120			
Nickel	51.1	1	ug/L	ND	102	80-120			
Selenium	49.5	1	ug/L	ND	98.9	80-120			
Silver	50.9	0.1	ug/L	ND	102	80-120			
Sodium	9550	200	ug/L	ND	94.0	80-120			
Thallium	50.4	0.1	ug/L	ND	101	80-120			
Uranium	53.8	0.1	ug/L	ND	108	80-120			
Vanadium	48.9	0.5	ug/L	ND	97.9	80-120			
Zinc	52	5	ug/L	ND	103	80-120			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Pesticides, OC									
Aldrin	0.50	0.01	ug/L	ND	99.9	50-140			
gamma-BHC (Lindane)	0.63	0.01	ug/L	ND	127	50-140			
alpha-Chlordane	0.49	0.01	ug/L	ND	97.4	50-140			
gamma-Chlordane	0.49	0.01	ug/L	ND	98.5	50-140			
o,p'-DDD	0.51	0.01	ug/L	ND	102	50-140			
p,p'-DDD	0.63	0.01	ug/L	ND	126	50-140			
o,p'-DDE	0.45	0.01	ug/L	ND	90.5	50-140			
p,p'-DDE	0.52	0.01	ug/L	ND	103	50-140			
o,p'-DDT	0.49	0.01	ug/L	ND	97.4	50-140			
p,p'-DDT	0.61	0.01	ug/L	ND	122	50-140			
Dieldrin	0.54	0.01	ug/L	ND	108	50-140			
Endrin	0.50	0.01	ug/L	ND	100	50-140			
Endosulfan I	0.52	0.01	ug/L	ND	104	50-140			
Endosulfan II	0.57	0.01	ug/L	ND	114	50-140			
Heptachlor	0.54	0.01	ug/L	ND	107	50-140			
Heptachlor epoxide	0.55	0.01	ug/L	ND	109	50-140			
Hexachlorobenzene	0.55	0.01	ug/L	ND	110	50-140			
Hexachlorobutadiene	0.38	0.01	ug/L	ND	76.7	50-140			
Hexachloroethane	0.36	0.01	ug/L	ND	71.7	50-140			
Methoxychlor	0.63	0.01	ug/L	ND	126	50-140			
Surrogate: Decachlorobiphenyl	*0.241*		*%*		*96.4*	*50-140*			
Semi-Volatiles									
Acenaphthene	8.36	0.05	ug/L	ND	83.6	50-140			
Acenaphthylene	9.29	0.05	ug/L	ND	92.9	50-140			
Anthracene	9.80	0.01	ug/L	ND	98.0	50-140			
Benzo [a] anthracene	8.74	0.01	ug/L	ND	87.4	50-140			
Benzo [a] pyrene	7.73	0.01	ug/L	ND	77.3	50-140			
Benzo [b] fluoranthene	8.50	0.05	ug/L	ND	85.0	50-140			
Benzo [g,h,i] perylene	5.83	0.05	ug/L	ND	58.3	50-140			
Benzo [k] fluoranthene	6.42	0.05	ug/L	ND	64.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chrysene	7.92	0.05	ug/L	ND	79.2	50-140			
Fluoranthene	8.72	0.01	ug/L	ND	87.2	50-140			
Fluorene	9.10	0.05	ug/L	ND	91.0	50-140			
Indeno [1,2,3-cd] pyrene	9.58	0.05	ug/L	ND	95.8	50-140			
1-Methylnaphthalene	9.06	0.05	ug/L	ND	90.6	50-140			
2-Methylnaphthalene	12.4	0.05	ug/L	ND	124	50-140			
Naphthalene	8.65	0.05	ug/L	ND	86.5	50-140			
Phenanthrene	8.98	0.05	ug/L	ND	89.8	50-140			
Pyrene	7.47	0.01	ug/L	ND	74.7	50-140			
Surrogate: 2-Fluorobiphenyl	*7.70*		*%*		*77.0*	*50-140*			
Surrogate: Terphenyl-d14	*8.46*		*%*		*84.6*	*50-140*			
Volatiles									
Acetone	118	5.0	ug/L	ND	118	50-140			
Benzene	39.7	0.5	ug/L	ND	99.2	60-130			
Bromodichloromethane	39.7	0.5	ug/L	ND	99.2	60-130			
Bromoform	45.4	0.5	ug/L	ND	113	60-130			
Bromomethane	41.6	0.5	ug/L	ND	104	50-140			
Carbon Tetrachloride	37.3	0.2	ug/L	ND	93.2	60-130			
Chlorobenzene	36.2	0.5	ug/L	ND	90.4	60-130			
Chloroform	39.4	0.5	ug/L	ND	98.5	60-130			
Dibromochloromethane	40.5	0.5	ug/L	ND	101	60-130			
Dichlorodifluoromethane	47.7	1.0	ug/L	ND	119	50-140			
1,2-Dichlorobenzene	39.0	0.5	ug/L	ND	97.4	60-130			
1,3-Dichlorobenzene	41.2	0.5	ug/L	ND	103	60-130			
1,4-Dichlorobenzene	36.4	0.5	ug/L	ND	90.9	60-130			
1,1-Dichloroethane	40.4	0.5	ug/L	ND	101	60-130			
1,2-Dichloroethane	40.8	0.5	ug/L	ND	102	60-130			
1,1-Dichloroethylene	43.4	0.5	ug/L	ND	108	60-130			
cis-1,2-Dichloroethylene	41.9	0.5	ug/L	ND	105	60-130			
trans-1,2-Dichloroethylene	44.6	0.5	ug/L	ND	112	60-130			
1,2-Dichloropropane	38.4	0.5	ug/L	ND	96.0	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
cis-1,3-Dichloropropylene	39.9	0.5	ug/L	ND	99.8	60-130			
trans-1,3-Dichloropropylene	39.9	0.5	ug/L	ND	99.8	60-130			
Ethylbenzene	39.9	0.5	ug/L	ND	99.8	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	40.3	0.2	ug/L	ND	101	60-130			
Hexane	37.8	1.0	ug/L	ND	94.4	60-130			
Methyl Ethyl Ketone (2-Butanone)	123	5.0	ug/L	ND	123	50-140			
Methyl Isobutyl Ketone	113	5.0	ug/L	ND	113	50-140			
Methyl tert-butyl ether	99.6	2.0	ug/L	ND	99.6	50-140			
Methylene Chloride	45.8	5.0	ug/L	ND	114	60-130			
Styrene	39.9	0.5	ug/L	ND	99.8	60-130			
1,1,1,2-Tetrachloroethane	34.4	0.5	ug/L	ND	86.1	60-130			
1,1,2,2-Tetrachloroethane	36.6	0.5	ug/L	ND	91.5	60-130			
Tetrachloroethylene	38.7	0.5	ug/L	ND	96.7	60-130			
Toluene	37.1	0.5	ug/L	ND	92.8	60-130			
1,1,1-Trichloroethane	41.3	0.5	ug/L	ND	103	60-130			
1,1,2-Trichloroethane	39.1	0.5	ug/L	ND	97.7	60-130			
Trichloroethylene	39.9	0.5	ug/L	ND	99.8	60-130			
Trichlorofluoromethane	48.8	1.0	ug/L	ND	122	60-130			
Vinyl chloride	44.1	0.5	ug/L	ND	110	50-140			
m,p-Xylenes	77.3	0.5	ug/L	ND	96.7	60-130			
o-Xylene	38.2	0.5	ug/L	ND	95.6	60-130			
Surrogate: 4-Bromofluorobenzene	*63.6*		*%*		*79.5*	*50-140*			
Surrogate: Dibromofluoromethane	*72.3*		*%*		*90.3*	*50-140*			
Surrogate: Toluene-d8	*77.9*		*%*		*97.4*	*50-140*			

Qualifier Notes:

QC Qualifiers:

QM-05	The spike recovery was outside acceptance limits for the matrix spike due to matrix interference.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Benzo[b]fluoranthene results may be biased high due to co-elution with Benzo[j]fluoranthene

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARAC LABORATORIES

Paracel ID: 2623041

rent Blvd.
K1G 4J8
7
ellabs.com
.com

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2623041	№ 146557

Client Name: LRL Associates Ltd.
Contact Name: Eric Lavergne
Address: 5430 Carotek Road
Telephone: 613 842 3434

Project Ref: 240720
Quote #:
PO #:
E-mail: elavergne@lrl.ca

Page 1 of 1

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required: _____

☐ REG 153/04 ☐ REG 406/19
☐ Table 1 ☐ Res/Park ☐ Med/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU-Storm
Mun: _____
☐ Other

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (paint) A (Air) O (Other)

Required Analysis

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Full Metals (Heavy)	Hg	CrVI	B (HWS)	Inorganics + Cyanide	DC Pesticides
1	MW32	GW	13	~~14~~	May 29	2:00	X	X	X	X	X	X		X	X
2	MW27	↓		↓	↓	2:30	↓	↓	↓	↓	↓	↓		↓	↓
3	MWX	↓		↓	↓	2:00	↓	↓	↓	↓	↓	↓		↓	↓
4	Trip blank							X							
5															
6															
7															
8															
9															
10															

Comments:

Method of Delivery: Walk-in

Relinquished By (Sign):	Received at Depot: KB 1448	Received at Lab:	Verified By: LTJ
Relinquished By (Print): Eric Lavergne	Date/Time: May 29/26	Date/Time: June 1 26 9:58	Date/Time: 06/26, 11:31
Date/Time: May 29, 2026	Temperature: 16.5 °C	Temperature: 6.6 °C	pH Verified: ☐ By:

Chain of Custody (Env) xlsx