



Phase II Environmental Site Assessment  
15374 and 15450 Woodbine Avenue  
Gormley, Ontario

**CLIENT:**

Treasure Hill Homes  
1-1681 Langstaff Road  
Vaughan, Ontario, L4K 5T3

**ATTENTION:**

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Project Number: BRM-21010864-B0  
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## Legal Notification

This report was prepared by EXP Services Inc. for the account of *Treasure Hill Homes* (hereinafter referred to as 'the Client').

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## Executive Summary

EXP Services Inc. (EXP) was retained by Treasure Hill Homes (hereinafter referred to as 'the Client') to conduct a Phase II Environmental Site Assessment (ESA) of the properties located at 15374 and 15450 Woodbine Avenue, Gormley, Ontario (hereinafter referred to as 'the Site') as shown on Figure 1: Site Location Plan.

EXP understands that this Phase II ESA is required for due diligence purposes in support of a proposed real estate transaction and that the filing of a Record of Site Condition (RSC) is not required at this time.

The purpose of this Phase II ESA was to assess whether the Areas of Potential Environmental Concern (APECs) identified in the 2021 EXP Phase I ESA had resulted in adverse subsurface environmental impacts to the Site. The methodologies of this investigation were completed in general accordance with Canadian Standards Association (CSA) Z769-00 (R2018) and in accordance with generally accepted professional practices. Subject to this standard of care, EXP makes no express or implied warranties regarding its services and no third-party beneficiaries are intended.

It is understood that the Site is proposed to be redeveloped for residential use, including single-family dwellings, townhouse blocks and associated municipal roads and underground services. It is noted that this report is not intended for geotechnical design, construction planning, filing a Record of Site Condition (RSC) or for excess soils disposal purposes during construction.

The Site is located on the west side of Woodbine Avenue, approximately 230 m north of Aurora Road at the properties with the municipal addresses of 15374 and 15450 Woodbine Avenue, Gormley, Ontario. The Site is roughly rectangular in shape and measures approximately 333,000 m<sup>2</sup> (82.29 acres) in area according to the York Region Interactive Map (YRIM). The Site is currently under agricultural or other use, consisting primarily of open cornfields with several structures near the northeast corner.

Based on the results of the Phase II ESA conducted at the Site, the following findings are presented:

- 1) The drilling fieldwork for this Phase II ESA was conducted in conjunction with the geotechnical investigation of the Site between the period of May 26 and June 2, 2021. The geotechnical investigation consisted of twenty (20) boreholes drilled to depths ranging from 7.7 to 8.1 mbgs. Due to the areas of potential environmental concerns identified during the Phase I ESA, eight (8) additional boreholes (designated as BH101 to BH108) were drilled on Site to depths of 3.7 and 6.7 mbgs. Monitoring wells were installed in the boreholes BH6, BH11, BH18, BH102, BH103 and BH106 for groundwater monitoring and/or sampling.
- 2) In general, the stratigraphy of the site, as revealed in the boreholes, generally comprised fill and/or topsoil overlying native deposits of silty sand, sandy silt, silt, clayey silt and sandy silt till.
- 3) Fill was encountered surficially in Boreholes 3, 4, 7, 8 and 14. The fill in Borehole 3 and the upper level of Borehole 7 varied from silty sand to silt with topsoil inclusions. The fill in Boreholes 4, 7, 8 and 14 primarily consisted of topsoil. Moisture contents of the moist to very moist fill ranged from 9 to 30%. The fill extended to depths of approximately 1.5 to 3.7 m below existing grade. The deepest fill (i.e. greater than 3.5 m) is topsoil fill in Boreholes 4 and 7 located at the west part of 15450 Woodbine Avenue (north property). Fill was encountered in all 100-series boreholes, with the exception of borehole BH103. In general, the fill in the 100-series boreholes composed of moist to very moist sandy silt, silt with topsoil inclusion; brick or wood pieces were also found in the fill in boreholes BH101 and BH104. The fill unit in borehole BH105 (located in the open field at the northwest portion of the Site) extended to 4.0 mbgs. However, the fill unit within the remaining 100-series boreholes (located within proximity of the site

buildings) extended from surface (or beneath the concrete slab at borehole BH102) to depths ranging from 0.8 m to 2.2 mbgs.

- 4) No visual or olfactory evidence of petroleum hydrocarbon impact was detected in the fill or native soil samples. Soil vapour readings from soil samples were generally measured to be at low to negligible levels with the exception of BH102 where elevated soil vapour levels were identified. The soil samples with elevated soil vapour concentrations were selected for laboratory analysis.
- 5) Water levels in the installed monitoring wells (BH102, BH103 and BH106) were recorded in subsequent monitoring events on June 7 and 8, 2021, as shown on Table 5. Based on the static water levels measured on June 7, 2021, the groundwater levels in monitoring wells in BH6, BH11, BH18, BH102, BH103 and BH106 ranged from approximately 0.56 to 3.41 mbgs (corresponding to elevations of approximately 291.01 to 300.07 metres above mean sea level.
- 6) No apparent petroleum odours, sheens or free-phased petroleum products were observed in any of the monitoring wells.
- 7) The soil and groundwater data were compared to the Ontario Ministry of Environment, Conservation and Parks (MECP) Table 1 Full Depth Generic Site Condition Standards (SCS) for Residential/Parkland/Institutional/Industrial/Commercial/Community (RPI and ICC) property uses, medium and fine-textured soil listed in the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011 (the "MECP Table 1 SCS");
- 8) Selected soil samples were submitted for analysis of volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylene (BTEX), petroleum hydrocarbons (PHCs) F1 to F4, metals and inorganic parameters, organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs). The concentrations of the analyzed parameters in all submitted soil samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses.
- 9) Selected groundwater samples were submitted for analysis of VOCs, BTEX, and PHCs. The concentrations of the analyzed parameters in all submitted groundwater samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses.

Based on the findings of this Phase II ESA, the following conclusion and recommendations are presented.

- The laboratory analytical results for all tested soil and groundwater samples met the applicable MECP Table 1 Site Condition Standards for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses, medium to fine-textured soils. No further investigation is considered warranted for the Site at this time.
- Groundwater monitoring wells installed during this investigation on Site may be maintained for on-going monitoring purposes. If the monitoring wells are no longer required, they should be decommissioned by a licensed well contractor in accordance with Ontario Regulation 903.

## 1. Introduction

### 1.1 General

EXP Services Inc. (EXP) was retained by Treasure Hill Homes (hereinafter referred to as 'the Client') to conduct a Phase II Environmental Site Assessment (ESA) of the properties located at 15374 and 15450 Woodbine Avenue, Gormley, Ontario (hereinafter referred to as the 'Site') as shown on Figure 1: Site Location Plan.

The purpose of this Phase II ESA was to assess whether the Areas of Potential Environmental Concern (APECs) identified in the 2021 EXP Phase I ESA had resulted in adverse subsurface environmental impacts to the Site. EXP understands that this Phase II ESA is required for due diligence purposes in support of a proposed real estate transaction and that the filing of a Record of Site Condition (RSC) is not required at this time.

It is understood that the Site is proposed to be redeveloped for residential use, including single-family dwellings, townhouse blocks and associated municipal roads and underground services. It is noted that this report is not intended for geotechnical design, construction planning, filing a Record of Site Condition (RSC) or for excess soils disposal purposes during construction.

### 1.2 Site Description and Background

The Site is located on the west side of Woodbine Avenue, approximately 230 m north of Aurora Road at the properties with the municipal addresses of 15374 and 15450 Woodbine Avenue, Gormley, Ontario. The Site is roughly rectangular in shape and measures approximately 333,000 m<sup>2</sup> (82.29 acres) in area according to the York Region Interactive Map (YRIM).

The Site is currently under agricultural or other use, consisting primarily of open cornfields with several structures near the northeast corner. Clusters of trees were observed near the on-site structures and along the property limits. A tributary of Humber River (East Branch) situated in a south-to-north orientation transects the eastern extent of the Site. Structures at the northeast portion of the Site consisted of a residential structure (the 'House', currently boarded-up and inaccessible), a large barn/stable structure (the 'Barn/Stable', located southwest of the House), and a concrete pad which is presumably remnants of a storage area of a former barn/workshop structure located west of the House). No other permanent structures are present on the Site at the time of this Phase II ESA. As shown on the reviewed aerial photographs, a former residential dwelling, a former barn and a former shed appear to have been demolished in 2017 and 2018.

Throughout the years, the Site generally consisted of open agricultural fields with the northeast portion of the Site developed with existing and former structures dating from prior to the mid-1950s. Several of the rural structures were demolished in the late 1970s and replaced with the Barn/Stable and another structure (the former barn) located northeast of the Barn/Stable.

To the north and south, the Site is bounded by agricultural properties. To the east, the Site is bounded by Woodbine Avenue followed by agricultural properties. To the west, the Site is bounded by Highway 404 followed by a commercial retail plaza with office buildings.

### 1.3 Scope of Work

The Phase II ESA program is summarized below:

- Conduct underground utility clearance at the proposed borehole locations by Ontario One Call and a private utility locator to clear the boreholes of potential underground utilities prior to drilling;
- In conjunction with the geotechnical investigation which included the twenty (20) boreholes (designated as BH1 to BH20) drilled to depths ranging from 7.7 to 8.1 m below ground surface (mbgs), drill eight (8) boreholes (designated as BH101 to BH108) to depths of 3.6 m and 6.7 mbgs;
- In conjunction with the geotechnical investigation, install a total of six (6) monitoring wells in selected boreholes for groundwater level measurement and/or groundwater sampling;
- Conduct a field screening program on the recovered soil samples from selected boreholes for total organic vapours using a portable photo-ionizing detector (PID);
- Develop, purge and sample the newly installed monitoring wells to assess groundwater conditions and record water levels;
- Submit selected soil samples for chemical analysis of volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylene (BTEX), petroleum hydrocarbons (PHCs) F1 to F4, organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), as well as metals, hydrides-forming metals and other regulated parameters (collectively as metals and inorganic parameters);
- Submit groundwater samples from the monitoring wells for chemical analysis of VOCs, BTEX, PHCs (F1 to F4); and,
- Complete a report outlining the results of the investigation. The analytical results will be compared to the applicable standards listed in "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act."

EXP understands that this work is not being completed for the purposes of filing of an RSC with the Ontario MECP. Should an RSC filing be required for this Site in the future, additional work may be required to meet the requirements of the MECP RSC Regulation (O. Reg. 153/04).

### 1.4 Site Assessment Criteria

The assessment criteria, Site Condition Standards (SCS), applicable to a given site in Ontario are established under subsection 168.4(1) of the Environmental Protection Act. Tabulated generic criteria are provided in the Ministry of the Environment, Conservation and Parks (MECP) document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated: April 15, 2011 (hereinafter referred to as "the MECP Standards"). These standards are based on site sensitivity (sensitive or non-sensitive), groundwater use (potable or non-potable), property use (residential, parkland, institutional, commercial, industrial, community and agricultural/other), soil type (coarse or medium to fine textured) and restoration depth (full or stratified restoration). In addition, site specific criteria may be established on the basis of the findings of a Risk Assessment carried out in accordance with Part IX and Schedule C of Ontario Regulation 153/04 (O. Reg. 153/04).

The MECP Standards specify Site Condition Standards (SCS) for soil, groundwater and sediment that are tabulated as follows:

Table 1 - Applicable to sites where background concentrations must be met (full depth) such as sensitive sites where site-specific criteria have not been derived;



- Table 2 - Applicable to sites with potable groundwater and full depth restoration;
- Table 3 - Applicable to sites with non-potable groundwater and full depth restoration;
- Table 4 - Applicable to sites with potable groundwater and stratified restoration;
- Table 5 - Applicable to sites with non-potable groundwater and stratified restoration;
- Table 6 - Applicable to sites with potable groundwater and less than 2 metres of overburden above bedrock;
- Table 7 - Applicable to sites with non-potable groundwater and less than 2 metres of overburden above bedrock;
- Table 8 - Applicable to sites with potable groundwater and less than 30 metres from a water body; and,
- Table 9 - Applicable to sites with non-potable groundwater and less than 30 metres from a water body.

For assessment purposes, the Table 1 Full Depth Generic Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community (RPI and ICC) property uses were selected as representative of current conditions. The selection of these standards is based on the following factors:

- The current use of the Site is agricultural/other and residential;
- The intended future use of the Site is residential;
- The Site includes lands that are defined as an area of natural significance. The wetland on the east-end of the Site was identified by the Ministry of Natural Resources and Forestry (MNRF) as having environmental significance;
- The Site includes a tributary of the Holland River (East Branch), which transects the property on the east-end;
- No active water supply wells are suspected to be present on, adjacent to or within 30 m of the Site;
- There is no intention to carry out a stratified restoration at the Site;
- The pH levels of representative soil samples were generally between 5 and 9 for surface soils and between 5 and 11 for subsurface soils;
- Soil at the Site was generally observed to be medium and fine-textured; and,
- More than two-thirds of the Site has an overburden thickness greater than 2 metres.

## 2. Methodology

### 2.1 Drilling

Prior to the commencement of drilling activities, the locations of public and private underground utilities at the Site were located by Ontario One Call and by using a private locator to avoid contacting them during the subsurface investigation program.

The drilling fieldwork for this Phase II ESA was conducted in conjunction with the geotechnical investigation of the Site between the period of May 26 and June 2, 2021. The geotechnical investigation consisted of twenty (20) boreholes drilled to depths ranging from 7.7 to 8.1 mbgs. Due to the areas of potential environmental concerns identified during the Phase I ESA, eight (8) additional boreholes (designated as BH101 to BH108) were drilled on Site to depths of 3.7 and 6.7 mbgs. Monitoring wells were installed in the boreholes BH6, BH11, BH18, BH102, BH103 and BH106 for groundwater monitoring and/or sampling.

Approximate borehole locations are shown on Figure 2: Borehole Location Plan. The rationale for the borehole locations is summarized in the table below:

**TABLE 1 – RATIONALE OF BOREHOLE LOCATIONS**

| BOREHOLE ID | MEDIA               | LOCATION  | SOURCE/RATIONALE  |
|-------------|---------------------|---|---|
| BH 101      | Soil                | Exterior borehole, located within footprint of former residential house   | Assess the presence and environmental quality of fill within the footprint of former residential dwelling, and potential subsurface impacts from potential historical use of heating oil in the former residential structure. |
| BH 102      | Soil<br>Groundwater | Exterior borehole, located in the vicinity of a former barn/workshop and associated storage area                                  | Assess the environmental quality of soil within the footprint of former Barn, and potential subsurface impacts from potential handling or storage materials in and around the former barn/workshop structure.                 |
| BH 103      | Soil<br>Groundwater | Exterior borehole, located adjacent to remnants of former fill and vent pipes of a potential AST in basement of residential house | Assess potential subsurface impacts from potential historical use of heating oil in the existing House.   |
| BH 104      | Soil                | Exterior borehole, located adjacent to the grate drain inside the existing Barn/Stable  | Assess potential subsurface impacts from the grate drain inside the Barn/Stable.  |
| BH 105      | Soil                | Exterior borehole, within area where significant previous ground disturbance was noted  | Assess the presence and environmental quality of fill within the area where fill may have been placed.  |
| BH 106      | Soil<br>Groundwater | Exterior borehole, located adjacent to the grate drain inside the existing Barn/Stable  | Assess potential subsurface impacts from the grate drain inside the Barn/Stable.  |

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| BOREHOLE ID | MEDIA | LOCATION   | SOURCE/RATIONALE  |
|-------------|-------|--|---|
| BH 107      | Soil  | Exterior borehole, within area of former horse tracks              | Assess near surface fill for near surface impacts from potential historical use of dust suppressant.  |
| BH 108      | Soil  | Exterior borehole, located within footprint of former shed         | Assess the presence and environmental quality of fill within the footprint of the former shed, and potential subsurface impacts from potential handling or storage materials in and around the former shed. |
| BH 3        | Soil  | Exterior borehole, southwest portion of the agricultural field     | General characterization of fill / topsoil fill   |
| BH 4        | Soil  | Exterior borehole, northwest portion of the agricultural field     | General characterization of fill / topsoil fill   |
| BH 7        | Soil  | Exterior borehole, southeast portion of the agricultural field     | General characterization of fill / topsoil fill   |
| BH 12       | Soil  | Exterior borehole, south-central portion of the agricultural field | General characterization of fill / topsoil fill   |
| BH 14       | Soil  | Exterior borehole, east-central portion of the agricultural field  | General characterization of fill / topsoil fill   |
| BH 16       | Soil  | Exterior borehole, within area of former horse tracks              | Assess near surface fill for near surface impacts from potential historical use of dust suppressant.  |

All boreholes were drilled by a specialist drilling contractor utilizing a track-mounted drilling rig with solid and hollow stem continuous flight augers.

The drilling activities were continuously monitored by EXP to record the physical characteristics of the soil, depth of soil sample collection and total depth of boreholes. No petroleum-based greases or solvents were used during the drilling procedures. Field observations are summarized on the borehole logs provided in Appendix B. Summaries of analytical results are presented in Appendix C. Copies of the laboratory Certificates of Analysis for the tested soil and groundwater samples are provided in Appendix D.

Representative samples of the subsoils were recovered in the boreholes at regular intervals using a split-spoon sampler. The sampling equipment was cleaned between sampling intervals using phosphate-free soap followed by rinsing with distilled water to reduce the potential for cross-contamination.

The fieldwork was supervised by an EXP environmental engineering staff member who monitored the drilling and sampling operations and logged the samples from the borings. The borehole locations were established by EXP personnel. Ground surface elevations at the borehole locations were derived from Can-Net elevations with the use of a Trimble TSC3 Controller.

## 2.2 Soil Sampling

Dedicated nitrile gloves (i.e., one pair per sample) were used during sample handling. In boreholes where volatile parameters may be present, a portion of each soil sample was placed in a sealed plastic bag and allowed to reach ambient temperature prior to field screening using a portable photo-ionizing detector (PID). The measurements were made by inserting the instrument's probe into the plastic bag while manipulating the sample to ensure volatilization of the soil gases. These readings provide a real-time indication of the relative concentration of combustible vapours encountered in the subsurface during drilling and are used to aid in the assessment of the

vertical and horizontal extent of soil contamination and the selection of soil samples for analysis. The vapour readings, in parts per million by volume (ppmv), are provided in the borehole logs in Appendix B. Samples were preserved in moisture tight containers and returned to EXP's laboratory for visual, textural and olfactory classification.

A portion of selected soil samples was field preserved using laboratory-supplied vials filled and pre-weighed with methanol. The field preservation reduces the potential for induced volatilization during storage/transport prior to analysis for VOCs, BTEX and PHC F1 parameters. Soil samples intended for other non-volatile chemical parameters were placed directly into pre-cleaned, laboratory-supplied glass sample jars or vials. All soil samples were placed in clean ice-packed coolers prior to and during transportation to the subcontract laboratory, *Bureau Veritas Laboratories* of Mississauga, Ontario. The samples were transported and submitted under Chain of Custody documentation.

Soil samples were selected for laboratory analysis based on their visual appearance, olfactory evidence of impacts, area of potential environmental concern being investigated, Site background and/or potential water-bearing zones, where applicable. The soil samples submitted for laboratory analysis are summarized in Table 2.

**TABLE 2 – SUMMARY OF SOIL SAMPLES SUBMITTED FOR CHEMICAL ANALYSES**

| SAMPLE ID     | DEPTH (m) | MATERIAL / STRATA | RATIONALE  | ANALYSIS            |
|---------------|-----------|-------------------|--|---------------------|
| <b>BH 101</b> |           |                   |  |                     |
| BH-101 SS1    | 0.0 - 0.6 | Fill              | Assessment of fill materials   | Metals & Inorganics |
| BH-101 SS4    | 2.3 - 2.7 | Silt              | Soil sample has highest CV reading   | BTEX, PHCs          |
| <b>BH 102</b> |           |                   |  |                     |
| BH-102 SS5    | 3.1 - 3.7 | Silt              | Soil sample has highest CV reading   | VOCs, PHCs          |
| BH-102 SS5D   | 3.1 - 3.7 | Silt              | Field duplicate of BH-102 SS5  | VOCs, PHCs          |
| BH-102 SS6    | 3.8 - 4.4 | Silt              | Sample beneath soil sample with highest CV reading   | VOCs, PHCs          |
| BH-102 SS7    | 4.6 - 5.2 | Silt              | Sample beneath soil sample with highest CV reading   | VOCs, PHCs          |
| <b>BH 103</b> |           |                   |  |                     |
| BH-103 SS6    | 3.8 - 4.4 | Silt              | Soil sample has highest CV reading, with consideration of location of AST in basement            | BTEX, PHCs          |
| <b>BH 104</b> |           |                   |  |                     |
| BH-104 SS4    | 2.3-2.7   | Silt              | Assessment of soil from potential subsurface impacts from the grate drain inside the Barn/Stable | BTEX, PHCs          |
| <b>BH 105</b> |           |                   |  |                     |
| BH-105 SS1    | 0.0 - 0.6 | Fill              | Assessment of topsoil  | OCPs                |

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| SAMPLE ID     | DEPTH (m) | MATERIAL / STRATA   | RATIONALE   | ANALYSIS            |
|---------------|-----------|---------------------|---|---------------------|
| BH-105 SS2    | 0.8 - 1.4 | Fill                | Assessment of fill materials  | Metals & Inorganics |
| <b>BH 106</b> |           |                     |   |                     |
| BH-106 SS4    | 2.3 - 2.7 | Silt                | Soil sample has highest CV reading.<br>Assessment of soil from potential subsurface impacts from the grate drain inside the Barn/Stable           | BTEX, PHCs          |
| <b>BH 107</b> |           |                     |   |                     |
| BH-107 SS2    | 0.8 - 1.4 | Fill                | Assessment of near surface fill for near surface impacts from potential historical use of dust suppressant  | PCBs                |
| BH-107 SS2D   | 0.8 - 1.4 | Fill                | Field duplicate of BH-107 SS2   | PCBs                |
| BH-107 SS3    | 1.5 - 2.1 | Fill                | Soil sample has highest CV reading.<br>Assessment of near surface fill for near surface impacts from potential historical use of dust suppressant | BTEX, PHCs          |
| <b>BH 108</b> |           |                     |   |                     |
| BH-108 SS2    | 0.8 - 1.4 | Silt                | Soil sample has highest CV reading  | BTEX, PHCs          |
| <b>BH 3*</b>  |           |                     |   |                     |
| BH-3 SS3      | 1.5 - 2.1 | Fill (topsoil fill) | General characterization of fill / topsoil fill   | Metals & Inorganics |
| <b>BH 4*</b>  |           |                     |   |                     |
| BH-4 SS1      | 0.0 - 0.6 | Fill (topsoil fill) | General characterization of fill / topsoil fill   | OCPs                |
| BH-4 SS1D     | 0.0 - 0.6 | Fill (topsoil fill) | Field duplicate of BH-4 SS1   | OCPs                |
| BH-4 SS3      | 1.5 - 2.1 | Fill (topsoil fill) | General characterization of fill / topsoil fill   | Metals & Inorganics |
| BH-4 SS3D     | 1.5 - 2.1 | Fill (topsoil fill) | Field duplicate of BH-4 SS3   | Metals & Inorganics |
| <b>BH 7*</b>  |           |                     |   |                     |
| BH-7 SS1      | 0.0 - 0.6 | Fill                | General characterization of fill / topsoil fill   | OCPs                |
| BH-7 SS5      | 3.1 - 3.7 | Fill (topsoil fill) | General characterization of fill / topsoil fill   | Metals & Inorganics |
| <b>BH 12*</b> |           |                     |   |                     |
| BH-12 SS2     | 0.8 - 1.4 | Topsoil/Silty Sand  | General characterization of soil  | OCPs                |
| BH-12 SS3     | 1.5 - 2.1 | Silty Sand/Silt     | General characterization of soil  | Metals & Inorganics |

| SAMPLE ID     | DEPTH (m) | MATERIAL / STRATA   | RATIONALE  | ANALYSIS            |
|---------------|-----------|---------------------|--|---------------------|
| <b>BH 14*</b> |           |                     |  |                     |
| BH-14 SS2     | 0.8 - 1.4 | Fill (topsoil fill) | General characterization of fill / topsoil fill  | OCPs                |
| BH-14 SS3     | 1.5 - 2.1 | Topsoil/Silty Sand  | General characterization of soil   | Metals & Inorganics |
| <b>BH 16*</b> |           |                     |  |                     |
| BH-16 SS2     | 0.8 - 1.4 | Silt                | Assessment of near surface fill for near surface impacts from potential historical use of dust suppressant | PCBs                |
| BH-16 SS3     | 1.5 - 2.1 | Clayey Silt         | Assessment of near surface fill for near surface impacts from potential historical use of dust suppressant | BTEX, PHCs          |

**NOTES:**

\* Borehole drilled as part of the geotechnical investigation

- 1) PHC - Petroleum Hydrocarbons
- 2) BTEX - Benzene, Toluene, Ethylbenzene and Xylenes
- 3) VOC – Volatile Organic Compounds
- 4) OCP – Organochlorine Pesticides
- 5) PCB – Polychlorinated biphenyls
- 6) Metals and inorganics – Metals, hydride-forming metals, other regulated parameters
- 7) CV – Combustible vapour

## 2.3 Monitoring Wells

Groundwater levels were observed in the open boreholes during fieldwork and measured in monitoring wells installed during this investigation.

Groundwater monitoring wells were installed in boreholes BH6, BH11, BH18, BH102, BH103 and BH106 upon the completion of drilling. The monitoring wells were installed in general accordance with the Ontario Water Resources Act - R.R.O. 1990, Regulation 903 - Amended by O. Reg. 128/03 by a licensed well driller.

Monitoring wells consisted of 50 mm diameter PVC screen of 1.5 or 3.0 metres in length and an appropriate length of PVC riser pipe, as shown on Table 3. The annular space around the wells was backfilled with sand to a height of approximately 0.3 metres above the top of the screen. A bentonite seal was added from the top of the sand pack to approximately 0.3 metres below ground surface. The monitoring wells were completed with aboveground protective casings.

After completion of the monitoring well installation, the wells intended for groundwater sampling (BH102, BH103 and BH106) were developed on June 7, 2021 to remove fine sediment particles from the sand pack and enhance hydraulic communication with the surrounding formation waters. The monitoring wells were developed manually using dedicated *Waterra*® tubing equipped with a check ball valve. Water levels and standing water volumes in the monitoring wells were measured using a *Solinst*® electronic water level meter. The well construction is shown on the left margin of the borehole logs in Appendix B.

When the monitoring wells are no longer required, they must be decommissioned in accordance with the procedure outlined in the Ontario Water Resources Act - R.R.O. 1990, Regulation 903 - Amended by O. Reg. 128/03.

The installation details of the monitoring wells are summarized in Table 3.

**TABLE 3 – MONITORING WELL INSTALLATION DETAILS**

| MONITORING WELL | SCREENED INTERVAL (mbgs) | Length of Screen (m) | FORMATION(S) SCREENED |
|-----------------|--------------------------|----------------------|-----------------------|
| BH102           | 3.0 - 6.0                | 3.0                  | Silt                  |
| BH103           | 3.0 - 6.0                | 3.0                  | Silt                  |
| BH106           | 3.0 - 6.0                | 3.0                  | Silt                  |
| BH 6            | 4.4-7.4                  | 3.0                  | Silt                  |
| BH 11           | 6.1-7.6                  | 1.5                  | Sandy Silt Till       |
| BH 18           | 4.6-7.6                  | 3.0                  | Silt                  |

**NOTES:**

- 1) mbgs – metres below ground surface

## 2.4 Groundwater Sampling

Groundwater level monitoring, purging and sampling was conducted during fieldwork in the monitoring wells installed at selected borehole locations.

On June 8, 2021, monitoring wells installed at BH102, BH103 and BH106 were purged using a low flow peristaltic pump while monitoring water quality parameters (i.e. pH, turbidity, specific conductivity and temperature) and groundwater levels for steady-state conditions. Representative groundwater samples were collected using a slow flow peristaltic pump once steady-state conditions occurred. No apparent petroleum odours, sheens or free-phased petroleum products were observed in the groundwater samples recovered from the monitoring wells.

Samples were collected in containers supplied by the laboratory and stored in a field cooler for transport. Analytical results are discussed in Section 4.4 of this report. A summary of the groundwater analyses carried out is provided in Table 4.

**TABLE 4 – SUMMARY OF GROUNDWATER SAMPLES SUBMITTED FOR ANALYSIS**

| Monitoring Well | SAMPLE IDENTIFICATION | SAMPLE DATE (mm/dd/yyyy) | ANALYSIS   |
|-----------------|-----------------------|--------------------------|------------|
| BH102           | MW-102                | 06/08/2021               | VOCs, PHCs |
|                 | MW-102D (duplicate)   | 06/08/2021               | VOCs, PHCs |
| BH103           | BH/MW-103             | 06/08/2021               | BTEX, PHCs |
| BH106           | BH/MW-106             | 06/08/2021               | BTEX, PHCs |
| NA              | Trip Blank Lot #3699  | -                        | VOCs       |

## 3. Findings

### 3.1 Subsurface Conditions

The detailed soil profiles encountered in each borehole are provided on the attached borehole logs in Appendix B. Boundaries of soil indicated on the log sheets are inferred from non-continuous sampling and observations made in the field. They intended to reflect approximate transition zones for the purpose of environmental assessment and should not be interpreted as exact planes of geological change.

In general, the stratigraphy of the site, as revealed in the boreholes, generally comprised fill and/or topsoil overlying native deposits of silty sand, sandy silt, silt, clayey silt and sandy silt till.

A brief description of the stratigraphy, in order of depth, follows:

#### Surface Cover

A concrete slab of 150mm thick was encountered at surface in borehole BH102, within the footprint of the former Barn on Site. The remaining boreholes were drilled on unpaved ground surface on the exterior of the Site.

#### Topsoil

Original topsoil, consisting of approximately 200 to 360 mm dark brown sandy silt to silt with rootlets, was encountered surficially in Boreholes 1, 2, 5, 6, 9 to 13 and 15 to 20 and below the fill unit in Boreholes 4, 7, 8 and 14. A topsoil layer of 360mm thickness was encountered in borehole BH103, on the exterior of the existing residential house. No topsoil was encountered in the remaining 100-series boreholes

Topsoil measurements were carried out at the borehole locations only and were found to be variable.

#### Fill

Fill was encountered surficially in Boreholes 3, 4, 7, 8 and 14. The fill in Borehole 3 and the upper level of Borehole 7 varied from silty sand to silt with topsoil inclusions. The fill in Boreholes 4, 7, 8 and 14 primarily consisted of topsoil. Moisture contents of the moist to very moist fill ranged from 9 to 30%. The fill extended to depths of approximately 1.5 to 3.7 m below existing grade. The deepest fill (i.e. greater than 3.5 m) is topsoil fill in Boreholes 4 and 7 located at the west part of 15450 Woodbine Avenue (north property).

Fill was encountered in all 100-series boreholes, with the exception of borehole BH103. In general, the fill in the 100-series boreholes composed of moist to very moist sandy silt, silt with topsoil inclusion; brick or wood pieces were also found in the fill in boreholes BH101 and BH104. The fill unit in borehole BH105 (located in the open field at the northwest portion of the Site) extended to 4.0 mbgs. However, the fill unit within the remaining 100-series boreholes (located within proximity of the site buildings) extended from surface (or beneath the concrete slab at borehole BH102) to depths ranging from 0.8 m to 2.2 mbgs.

No visual or olfactory evidence of petroleum hydrocarbon impact was detected in the fill samples.

#### Native Soils

Native deposits of silty sand, sandy silt, silt, sandy silt till, sand, and clayey silt were encountered at varying depths in boreholes BH1-BH20. Native soil deposits encountered below the fill unit in the 100-series boreholes were predominantly silt which was generally brown, moist to saturated, and becoming grey in colour at depths of approximately 4.6 to 5.3 mbgs. In addition to silt, layers of native sandy silt, silty sand and sandy silt till were



encountered in three (3) borehole locations. Locally in BH103, the native sandy silt layer (approximately 400mm in thickness) overlies the silt stratum at depths of 0.3 to 0.7 mbgs. In BH105, the silty sand layer (approximately 500mm in thickness) overlies the silt stratum at depths of 4.0 to 4.5 mbgs. In BH107, the sandy silt till layer was found beneath the silt stratum at a depth of 3.0 mbgs to the terminating depth of the borehole.

No visual or olfactory evidence of petroleum hydrocarbon impact was detected in the native soil samples.

### 3.2 Groundwater

Upon completion of drilling, free groundwater was encountered in the open boreholes at depths of 5.49 mbgs and 2.44 mbgs in boreholes BH106 and BH107. All other 100-series boreholes were dry upon completion of drilling.

Water levels in the installed monitoring wells (BH102, BH103 and BH106) were recorded in subsequent monitoring events on June 7 and 8, 2021, as shown on Table 5. Based on the static water levels measured on June 7, 2021, the groundwater levels in monitoring wells in BH6, BH11, BH18, BH102, BH103 and BH106 ranged from approximately 0.56 to 3.41 mbgs (corresponding to elevations of approximately 291.01 to 300.07 metres above mean sea level).

It should be noted that groundwater levels are subject to seasonal fluctuations and can vary in response to prevailing climate conditions.

No apparent petroleum odours, sheens or free-phased petroleum products were observed in any of the monitoring wells.

**TABLE 5 – SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS**

| GROUNDWATER WELL SPECIFICATION |                       |                              |                  | June 7, 2021 |                  | June 8, 2021 |                  |
|--------------------------------|-----------------------|------------------------------|------------------|--------------|------------------|--------------|------------------|
| BOREHOLE ID                    | WELL ELEVATION (masl) | SCREEN INTERVAL DEPTH (mbgs) | DEPOSIT SCREENED | DEPTH (mbgs) | ELEVATION (masl) | DEPTH (mbgs) | ELEVATION (masl) |
| BH102                          | 299.56                | 3.0 - 6.0                    | Silt             | 2.55         | 295.41           | 2.56         | 294.25           |
| BH103                          | 296.07                | 3.0 - 6.0                    | Silt             | 3.03         | 292.49           | 4.19         | 292.48           |
| BH106                          | 299.79                | 3.0 - 6.0                    | Silt             | 3.18         | 295.56           | 3.41         | 295.33           |
| BH6                            | 301.43                | 4.4-7.4                      | Silt             | 1.68         | 299.75           | -            | -                |
| BH11                           | 303.48                | 6.1-7.6                      | Sandy Silt Till  | 3.41         | 300.07           | -            | -                |
| BH18                           | 291.57                | 4.6-7.6                      | Silt             | 0.56         | 291.01           | -            | -                |

**NOTES:**

- 1) mbgs – metres below ground surface
- 2) masl – metres above mean sea level

### 3.3 Total Organic Vapour Monitoring

Total organic vapour (TOV) testing for volatile organic soil vapours in the headspace of each soil sample from Boreholes BH BH101 to BH108 was performed using a MiniRae® photoionization device (PID) in the field. The measurements were made by inserting the probe of the instrument into the plastic bag while manipulating the sample to ensure volatilization of the soil gases. These readings provide a real-time indication of the relative

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concentration of organic vapours encountered in the subsurface during drilling and are used to aid in the assessment of the vertical and horizontal extent of contamination and the selection of soil samples for analysis. The readings are provided on the borehole logs.

Soil vapour readings from soil samples were generally measured to be at low to negligible levels with the exception of BH102 where elevated soil vapour levels were identified. The soil samples with elevated soil vapour concentrations were selected for laboratory analysis.

## 4. Soil and Groundwater Quality

### 4.1 General

In accordance with the scope of work, chemical analyses were performed on selected soil samples recovered from the boreholes. The selection of representative 'worst case' soil samples from each borehole was based on field visual or olfactory evidence of impacts, potential sources of impact and the presence of potential water bearing zones. Tabulated laboratory analytical results are included in Appendix C. Copies of the laboratory Certificates of Analysis for the tested soil and groundwater samples are provided in Appendix D.

### 4.2 Soil Characterization

#### 4.2.1 pH

Two (2) soil samples representative of the surface soils and six (6) soil samples representative of the subsurface soil encountered at the Site were analyzed for pH. The pH levels were generally between 5 and 9 for surface soil and between 5 and 11 for subsurface soil.

#### 4.2.2 Soil Texture Analysis

The native soil deposits encountered in the boreholes on Site primarily consisted of silty sand, sandy silt, silt, sandy silt till, sand, and clayey silt. Grain size analysis was carried out on three (3) soil samples representative of the predominant native deposits as part of the geotechnical investigation. The results of the grain size analysis are included in Appendix E.

A summary of the results is presented in Table 6 below:

**Table 6 – Summary of Grain Size Analysis**

| Location                        | Soil Type       | Grain Size Results          | Soil Texture*  |
|---------------------------------|-----------------|-----------------------------|----------------|
| Borehole BH6<br>(1.5 – 2.0 m)   | Silt            | Over 50% passing #200 sieve | Medium to fine |
| Borehole BH11<br>(1.5 – 2.0 m)  | Sandy Silt Till | Over 50% passing #200 sieve | Medium to fine |
| Borehole BH12<br>(0.75 – 1.2 m) | Silty Sand      | Over 50% passing #200 sieve | Medium to fine |

\*As defined by O.Reg. 153/04

Based on the grain size analyses completed, the soil texture on Site can be classified as medium to fine as defined by O.Reg. 153/04 (as amended).

## 4.3 Soil Quality

### 4.3.1 Benzene, Toluene, Ethylbenzene, Xylene (BTEX) and Petroleum Hydrocarbons (PHCs)

The concentrations of BTEX and PHCs in all analyzed soil samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

### 4.3.2 Volatile Organic Compounds (VOCs)

The concentrations of VOCs in all analyzed soil samples were below laboratory detection limits and met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

### 4.3.3 Metals and Inorganic Parameters

The concentrations of metals and inorganic parameters in all analyzed soil samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

### 4.3.4 Organochlorine Pesticides (OCPs)

The concentrations of OCPs in all analyzed soil samples were below laboratory detection limits and met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

### 4.3.5 Polychlorinated Biphenyls (PCBs)

The concentrations of PCBs in all analyzed soil samples were below laboratory detection limits and met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

## 4.4 Groundwater Quality

### 4.4.1 Benzene, Toluene, Ethylbenzene, Xylene (BTEX) and Petroleum Hydrocarbons (PHCs)

The concentrations of BTEX and PHCs in all analyzed groundwater samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

### 4.4.2 Volatile Organic Compounds (VOCs)

The concentrations of VOCs in all analyzed groundwater samples were either below laboratory limits or met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses for medium to fine textured soils.

## 4.5 Quality Assurance

Quality assurance and quality control measures were taken during the field activities to meet the objectives of the sampling and quality assurance plan to collect unbiased and representative samples to characterize existing conditions in the fill/upper overburden materials at the Site. QA/QC measures included:

- the collection of soil samples following standard operating procedures;
- the implementation of decontamination procedures to minimize the potential for sample cross-contamination;
- the collection of recommended analytical test group specific volumes into pre-cleaned laboratory supplied containers provided with necessary preservatives as required;
- sample preservation in insulated coolers pre-chilled with ice and meeting holding time requirements; and,
- sample documentation including Chain of Custody protocols

Review of field activity documentation indicated that recommended sample volumes were collected from soil for each analytical test group into appropriate containers and preserved with proper chemical reagents, where applicable, in accordance with the protocols set out in the *"Protocol for Analytical Methods used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act"*, MOE, March 9, 2004, amended by O.Reg. 179/11 as of July 1, 2011. Samples were preserved at the required temperatures in pre-chilled insulated coolers and met applicable holding time requirements, when relinquished to the receiving laboratory.

A field QA/QC protocol was incorporated during soil sampling, consisting of duplicate samples to evaluate sampling precision. Trip blanks were included during groundwater sampling to evaluate the potential for sample cross-contamination during handling and transport.

The field duplicate sample results were quantitatively evaluated by calculating the relative percent difference (RPD). Assessment of the duplicate soil and groundwater samples analytical results showed that the results generally met analytical test-group-specific requirements for the purpose of this Phase II ESA. The concentrations of VOCs in the trip blank analyzed as part of this Phase II ESA were all below laboratory detection limits.

The subcontract laboratory used during this investigation, *Bureau Veritas Laboratories* (BV Labs), is accredited by the Standards Council of Canada/Canadian Association for Laboratory Accreditation (Accredited Laboratory No. 97), in accordance with ISO/IEC 17025:1999 – *"General Requirements for the Competence of Testing and Calibration Laboratories"* for the analysis of all parameters for all samples in the scope of work for which SCS have been established under Ontario Regulation 153/04.

Certificates of Analysis were received from BV Labs reporting the results of all the chemical analyses performed on the submitted soil samples. Copies of the BV Labs Certificates of Analysis are provided in Appendix D. Review of the Certificates of Analysis prepared by BV Labs indicates that they were in compliance with the requirements set out under subsection 47(3) of O.Reg. 511/09.

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

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The BV Labs QA/QC results were assessed against test group control limits in the case of spiked blanks, matrix spikes and surrogate recoveries and alert criteria in the case of method blanks and laboratory duplicates. Two QA/QC incidents were noted by BV Labs, as follows:

- (1) The recovery or RPD for Cyanide in soil was outside control limits. However, BV Labs indicated that the overall quality control for this analysis met acceptability criteria. No outstanding issues were noted by BV Labs for this incident.
- (2) The matrix spike recovery for Chromium (VI) in soil was below the lower control limit. However, BV Labs attributed this to the possibility of the reducing environment in the sample. BV Labs reanalyzed the matrix spike to confirm the result. No outstanding issues were noted by BV Labs for this incident.
- (3) The recovery of tetrachloroethylene in groundwater was below the lower control limit and may represent a low bias in some results for this analyte. Since the concentration of tetrachloroethylene in all the tested groundwater samples were below laboratory detection limits, this QA/QC incident would not affect the interpretation of the groundwater sample results.

Review of the remaining laboratory QA/QC results reported by BV Labs indicated that they were within acceptable control limits or below applicable alert criteria for the sampled media and analytical test groups.

## 5. Summary of Findings

Based on the results of the Phase II ESA conducted at the Site, the following findings are presented:

- 1) The drilling fieldwork for this Phase II ESA was conducted in conjunction with the geotechnical investigation of the Site between the period of May 26 and June 2, 2021. The geotechnical investigation consisted of twenty (20) boreholes drilled to depths ranging from 7.7 to 8.1 mbgs. Due to the areas of potential environmental concerns identified during the Phase I ESA, eight (8) additional boreholes (designated as BH101 to BH108) were drilled on Site to depths of 3.7 and 6.7 mbgs. Monitoring wells were installed in the boreholes BH6, BH11, BH18, BH102, BH103 and BH106 for groundwater monitoring and/or sampling.
- 2) In general, the stratigraphy of the site, as revealed in the boreholes, generally comprised fill and/or topsoil overlying native deposits of silty sand, sandy silt, silt, clayey silt and sandy silt till.
- 3) Fill was encountered surficially in Boreholes 3, 4, 7, 8 and 14. The fill in Borehole 3 and the upper level of Borehole 7 varied from silty sand to silt with topsoil inclusions. The fill in Boreholes 4, 7, 8 and 14 primarily consisted of topsoil. Moisture contents of the moist to very moist fill ranged from 9 to 30%. The fill extended to depths of approximately 1.5 to 3.7 m below existing grade. The deepest fill (i.e. greater than 3.5 m) is topsoil fill in Boreholes 4 and 7 located at the west part of 15450 Woodbine Avenue (north property). Fill was encountered in all 100-series boreholes, with the exception of borehole BH103. In general, the fill in the 100-series boreholes composed of moist to very moist sandy silt, silt with topsoil inclusion; brick or wood pieces were also found in the fill in boreholes BH101 and BH104. The fill unit in borehole BH105 (located in the open field at the northwest portion of the Site) extended to 4.0 mbgs. However, the fill unit within the remaining 100-series boreholes (located within proximity of the site buildings) extended from surface (or beneath the concrete slab at borehole BH102) to depths ranging from 0.8 m to 2.2 mbgs.
- 4) No visual or olfactory evidence of petroleum hydrocarbon impact was detected in the fill or native soil samples. Soil vapour readings from soil samples were generally measured to be at low to negligible levels with the exception of BH102 where elevated soil vapour levels were identified. The soil samples with elevated soil vapour concentrations were selected for laboratory analysis.
- 5) Water levels in the installed monitoring wells (BH102, BH103 and BH106) were recorded in subsequent monitoring events on June 7 and 8, 2021, as shown on Table 5. Based on the static water levels measured on June 7, 2021, the groundwater levels in monitoring wells in BH6, BH11, BH18, BH102, BH103 and BH106 ranged from approximately 0.56 to 3.41 mbgs (corresponding to elevations of approximately 291.01 to 300.07 metres above mean sea level).
- 6) No apparent petroleum odours, sheens or free-phased petroleum products were observed in any of the monitoring wells.
- 7) The soil and groundwater data were compared to the Ontario Ministry of Environment, Conservation and Parks (MECP) Table 1 Full Depth Generic Site Condition Standards (SCS) for Residential/Parkland/Institutional/Industrial/Commercial/Community (RPI and ICC) property uses, medium and fine-textured soil listed in the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011 (the "MECP Table 1 SCS");

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- 8) Selected soil samples were submitted for analysis of volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylene (BTEX), petroleum hydrocarbons (PHCs) F1 to F4, metals and inorganic parameters, organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs). The concentrations of the analyzed parameters in all submitted soil samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses.
- 9) Selected groundwater samples were submitted for analysis of VOCs, BTEX, and PHCs. The concentrations of the analyzed parameters in all submitted groundwater samples met the MECP Table 1 SCS for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses.



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## 6. Conclusion and Recommendation

Based on the findings of this Phase II ESA, the following conclusion and recommendations are presented.

- The laboratory analytical results for all tested soil and groundwater samples met the applicable MECP Table 1 Site Condition Standards for Residential / Parkland / Institutional / Industrial / Commercial / Community property uses, medium to fine-textured soils. No further investigation is considered warranted for the Site at this time.
- Groundwater monitoring wells installed during this investigation on Site may be maintained for on-going monitoring purposes. If the monitoring wells are no longer required, they should be decommissioned by a licensed well contractor in accordance with Ontario Regulation 903.

## 7. References

This study was conducted in accordance with the applicable Regulations, Guidelines, Policies, Standards, Protocols and Objectives administered by the Ministry of the Environment. Specific reference is made to the following:

1. "Phase II Environmental Site Assessment Z769-00 (2018)", Canadian Standards Association, Canadian Standards Association (CSA), March 2000, Reaffirmed 2018.
2. "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario," Ministry of the Environment of Ontario, December 1996;
3. The Ontario Water Resources Act - R.R.O. 1990, Regulation 903 - Amended by O. Reg. 128/03, August 2003;
4. "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act," April 15, 2011;
5. "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act," March 2004 (as amended by O.Reg. 179/11);
6. Ontario Regulation 153/04 (made under the Environmental Protection Act), May 2004 (as amended by O.Reg. 179/11) (MOE);
7. Environmental Protection Act, R.S.O. 1990, Chapter E.19, as amended, September 2004;
8. "Phase I Environmental Site Assessment, 15374 and 15450 Woodbine Avenue, Gormley, Ontario" for Treasure Hill Homes, prepared by EXP, dated June 17, 2021.

## 8. General Limitations

The information presented in this report is based on a limited investigation designed to provide information to support an assessment of the current environmental conditions within the Site. The conclusions and recommendations presented in this report reflect Site conditions existing at the time of the investigation.

More specific information with respect to the conditions between samples, or the lateral and vertical extent of materials may become apparent during excavation operations. The interpretation of the borehole information must, therefore, be validated during any such excavation operations. Consequently, during the future development of the Site, conditions not observed during this investigation may become apparent. Should this occur, EXP should be contacted to assess the situation, and the need for additional testing and reporting. EXP has qualified personnel to provide assistance in regard to any future geotechnical and environmental issues related to this Site.

The environmental investigation was carried out to address the intent of applicable provincial Regulations, Guidelines, Policies, Standards, Protocols and Objectives administered by the Ministry of Environment, Conservation and Parks. It should also be noted that current environmental Regulations, Guidelines, Policies, Standards, Protocols and Objectives are subject to change, and such changes, when put into effect, could alter the conclusions and recommendations noted throughout this report. Achieving the study objectives stated in this report has required us to arrive at conclusions based upon the best information presently known to us. No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Professional judgment was exercised in gathering and analyzing the information obtained and in the formulation of the conclusions. Like all professional persons rendering advice we do not act as absolute insurers of the conclusions we reach, but we commit ourselves to care and competence in reaching those conclusions.

Our undertaking at EXP, therefore, is to perform our work within limits prescribed by our clients, with the usual thoroughness and competence of the engineering profession. It is intended that the outcome of this investigation assist in reducing the client's risk associated with environmental impairment. Our work should not be considered 'risk mitigation'. No other warranty or representation, either expressed or implied, is included or intended in this report.

This report was prepared for the exclusive use of Treasure Hill Homes and may not be reproduced in whole or in part, without the prior written consent of EXP, or used or relied upon in whole or in part by other parties for any purposes whatsoever. Any use which a third party makes of this report, or any part thereof, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. EXP accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

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We trust this report is satisfactory for your purposes. Should you have any questions, please do not hesitate to contact this office.

Yours truly,  
EXP Services Inc.



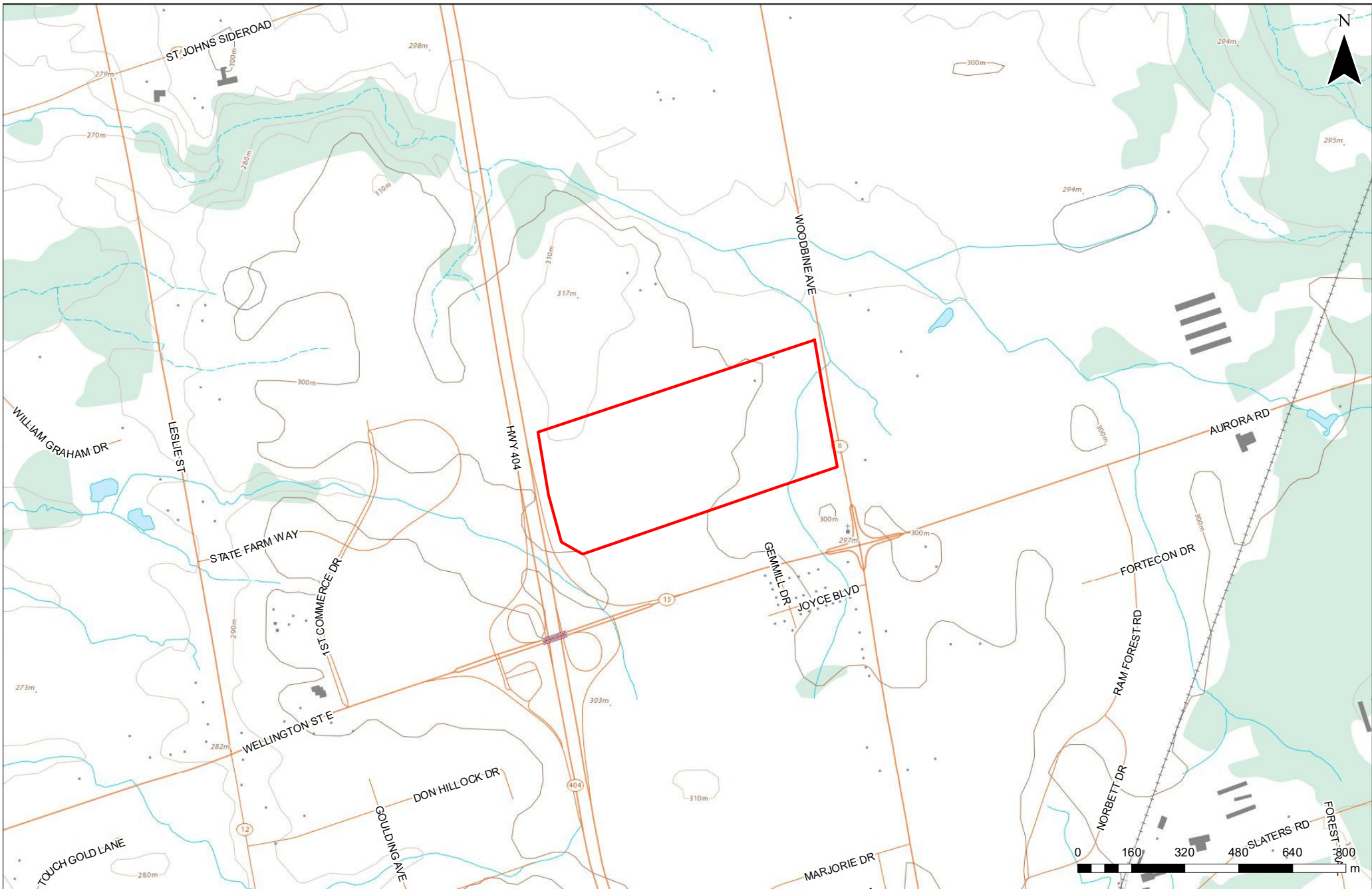
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## Appendix A - Figures




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**LEGEND**

 APPROXIMATE SITE BOUNDARY

**TITLE AND LOCATION:**

**SITE LOCATION PLAN**  
**PHASE II ENVIRONMENTAL**  
**SITE ASSESSMENT**  
 15374 AND 15450 WOODBINE AVENUE  
 WHITCHURCH-STOUFFVILLE, ONTARIO

|              |                 |           |    |
|--------------|-----------------|-----------|----|
| PROJECT NO.: | BRM-21010864-B0 | DWN:      | JA |
| SCALE:       | AS NOTED        | CHKD:     | SC |
| DATE:        | JUNE 2021       | FIG. NO.: | 1  |






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**LEGEND**

APPROXIMATE SITE BOUNDARY

 BOREHOLE (ENVIRONMENTAL)

 BOREHOLE (GEOTECHNICAL)

TITLE AND LOCATION:

**BOREHOLE LOCATION PLAN**  
 PHASE II ENVIRONMENTAL  
 SITE ASSESSMENT  
 15374 AND 15450 WOODBINE AVENUE  
 WHITCHURCH-STOUFFVILLE, ONTARIO

|              |                 |           |    |
|--------------|-----------------|-----------|----|
| PROJECT NO.: | BRM-21010864-B0 | DWN:      | JA |
| SCALE:       | AS NOTED        | CHKD:     | SC |
| DATE:        | JUNE 2021       | FIG. NO.: | 2  |

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June 17, 2021

## Appendix B – Borehole Logs



# Log of Borehole 1

Project No. BRM-21010864-AO

Drawing No. 2

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 31, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



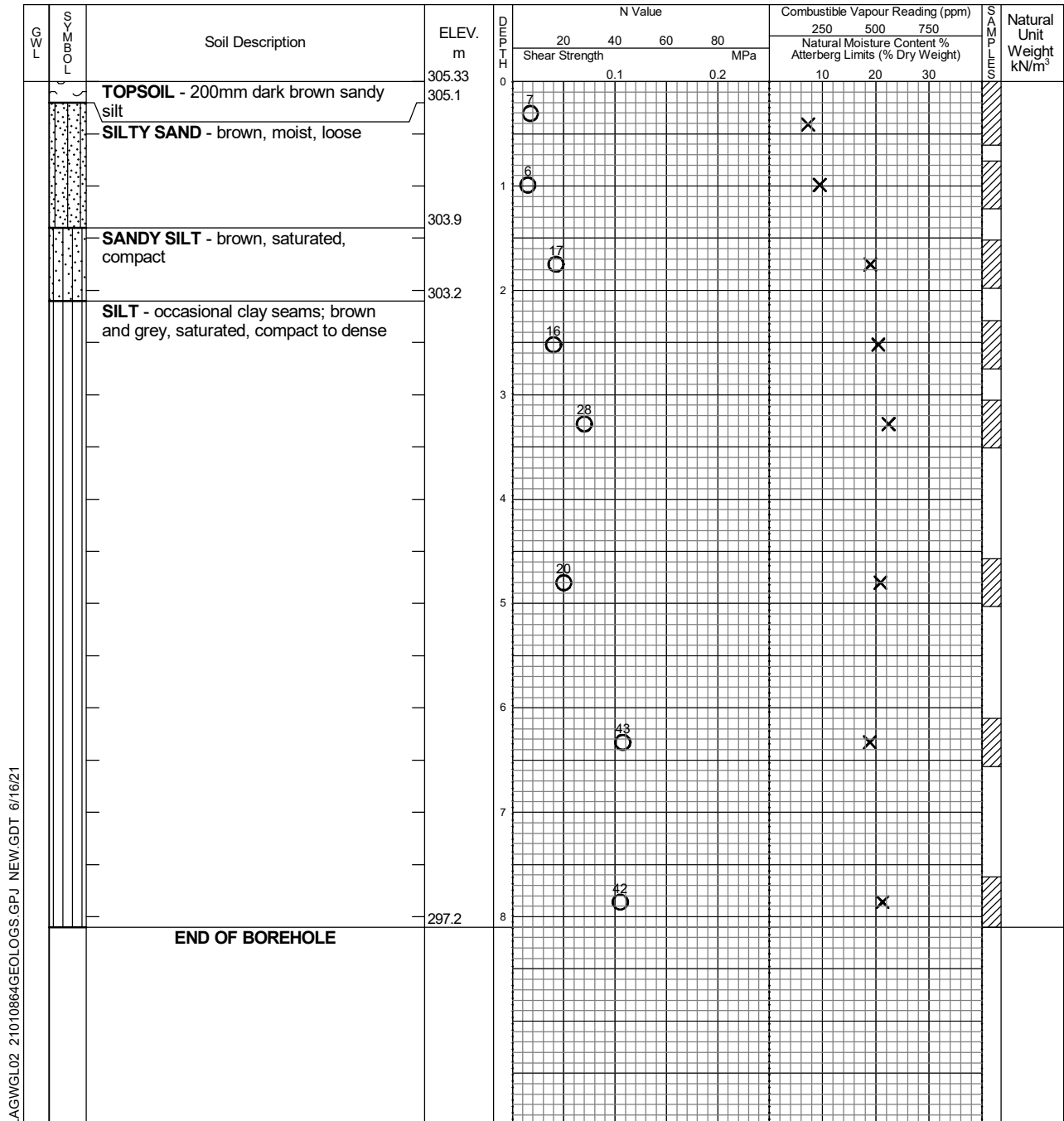
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.01            | 7.62              |

# Log of Borehole 2

Project No. BRM-21010864-AO

Drawing No. 3

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 31, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



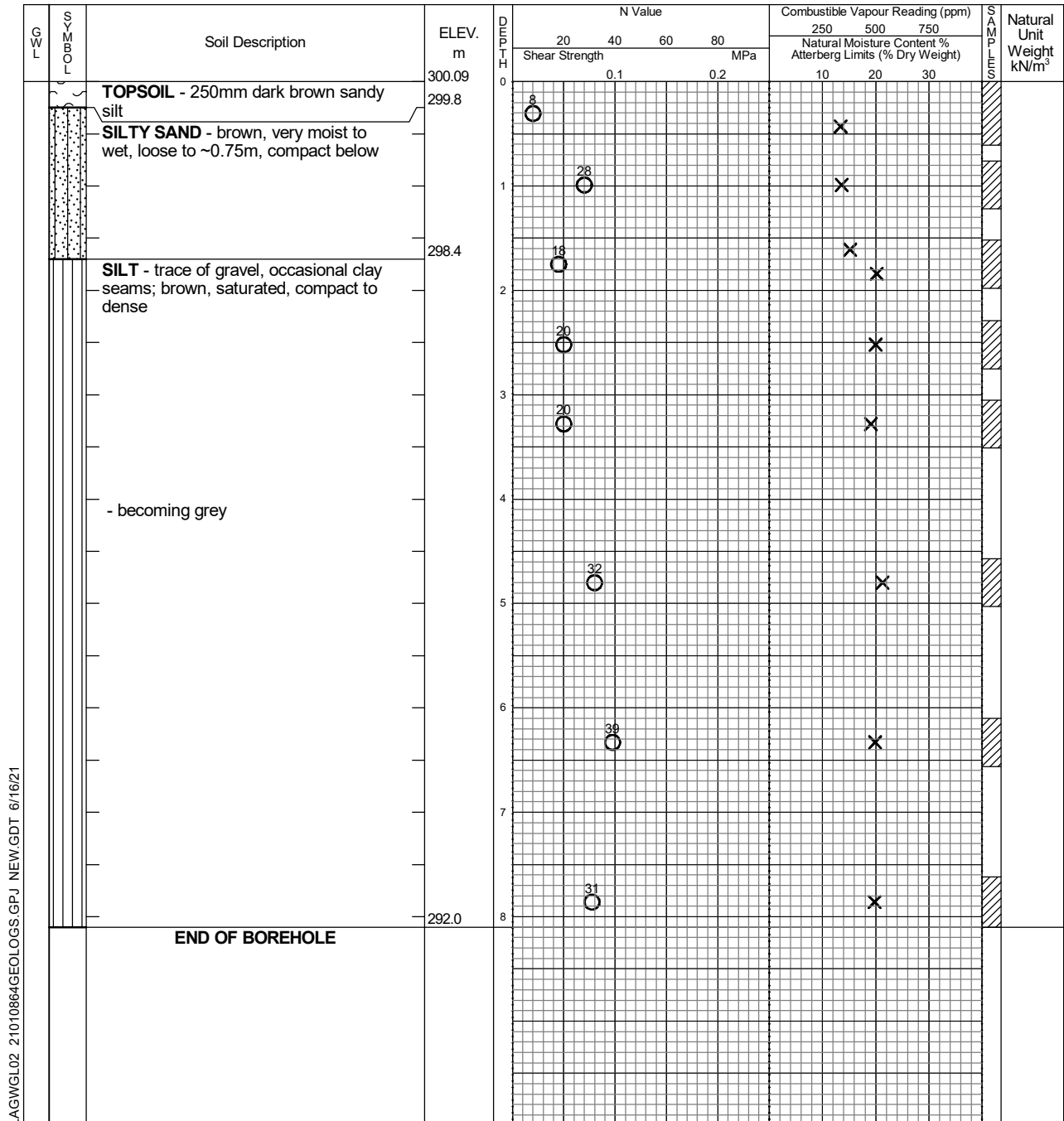
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 4.27            | 5.79              |

# Log of Borehole 3

Project No. BRM-21010864-AO

Drawing No. 4

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 27, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



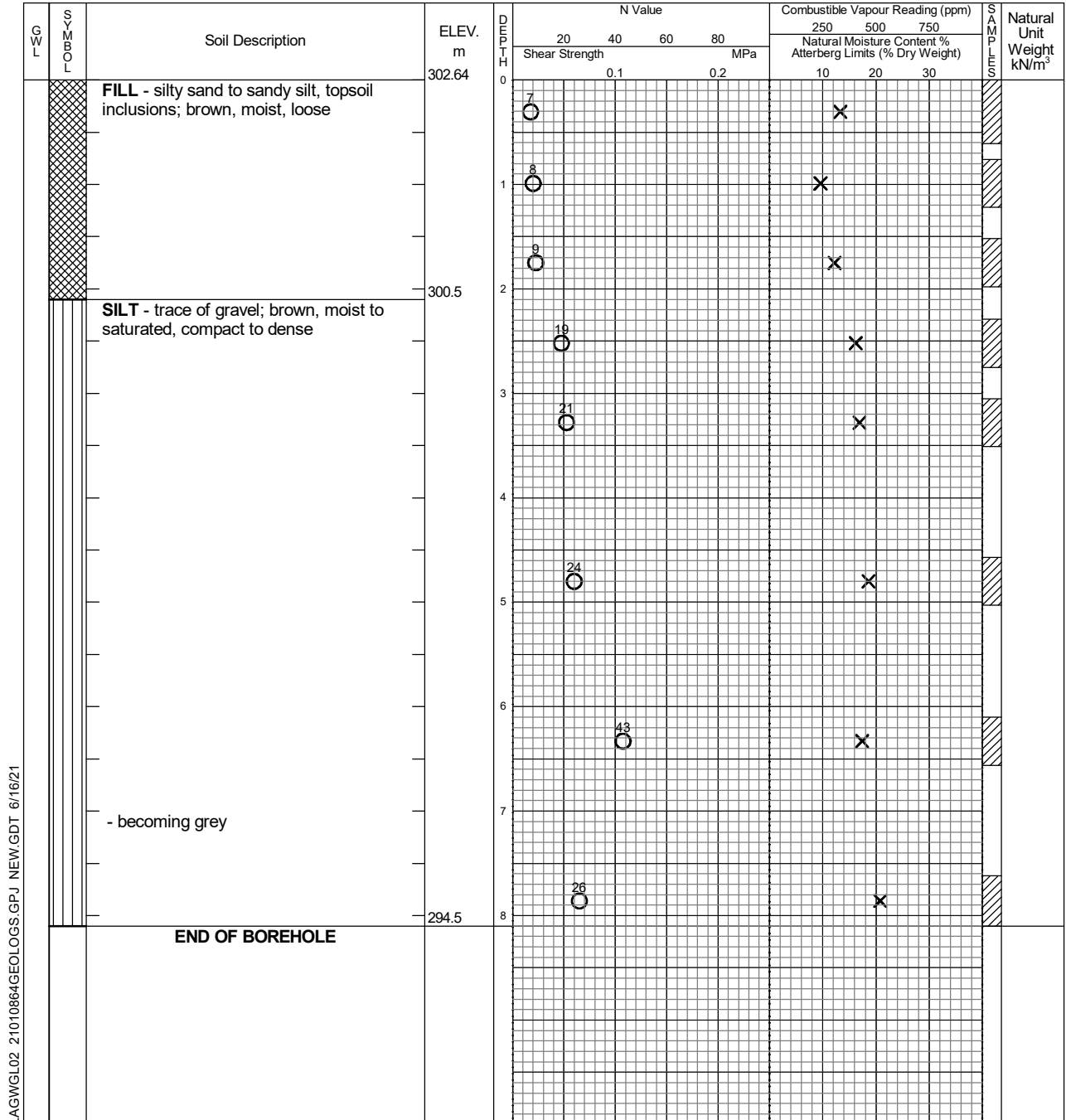
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.37            | 7.37              |

# Log of Borehole 4

Project No. BRM-21010864-AO

Drawing No. 5

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 28, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



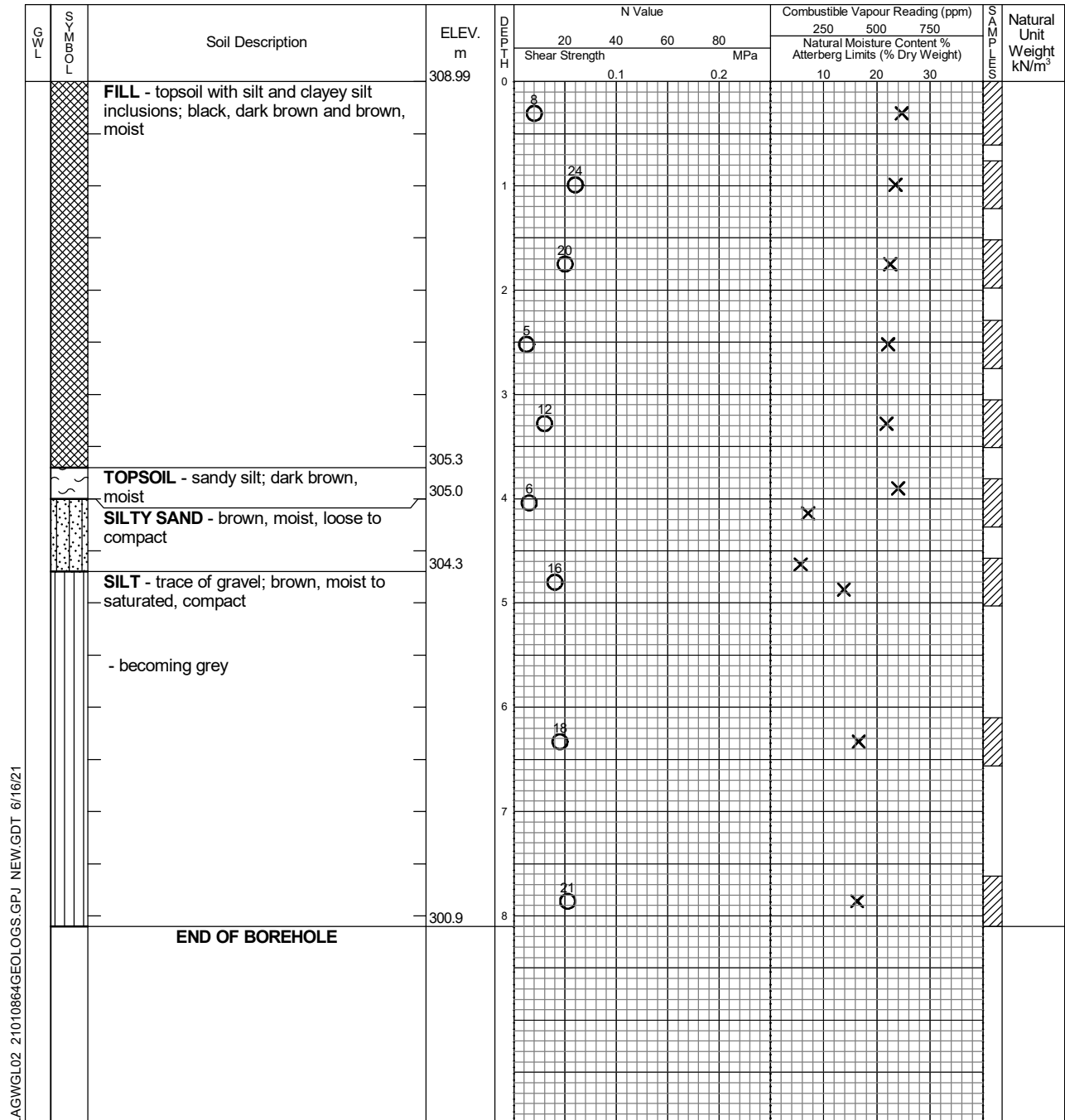
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | Dry             | 7.39              |

# Log of Borehole 5

Project No. BRM-21010864-AO

Drawing No. 6

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 26, 2021

Auger Sample

SPT (N) Value

## Dynamic Cone Test

Shelby Tube

### Field Vane Test

### Combustible Vapour Reading

## Natural Moisture

### Plastic and Liquid Limit

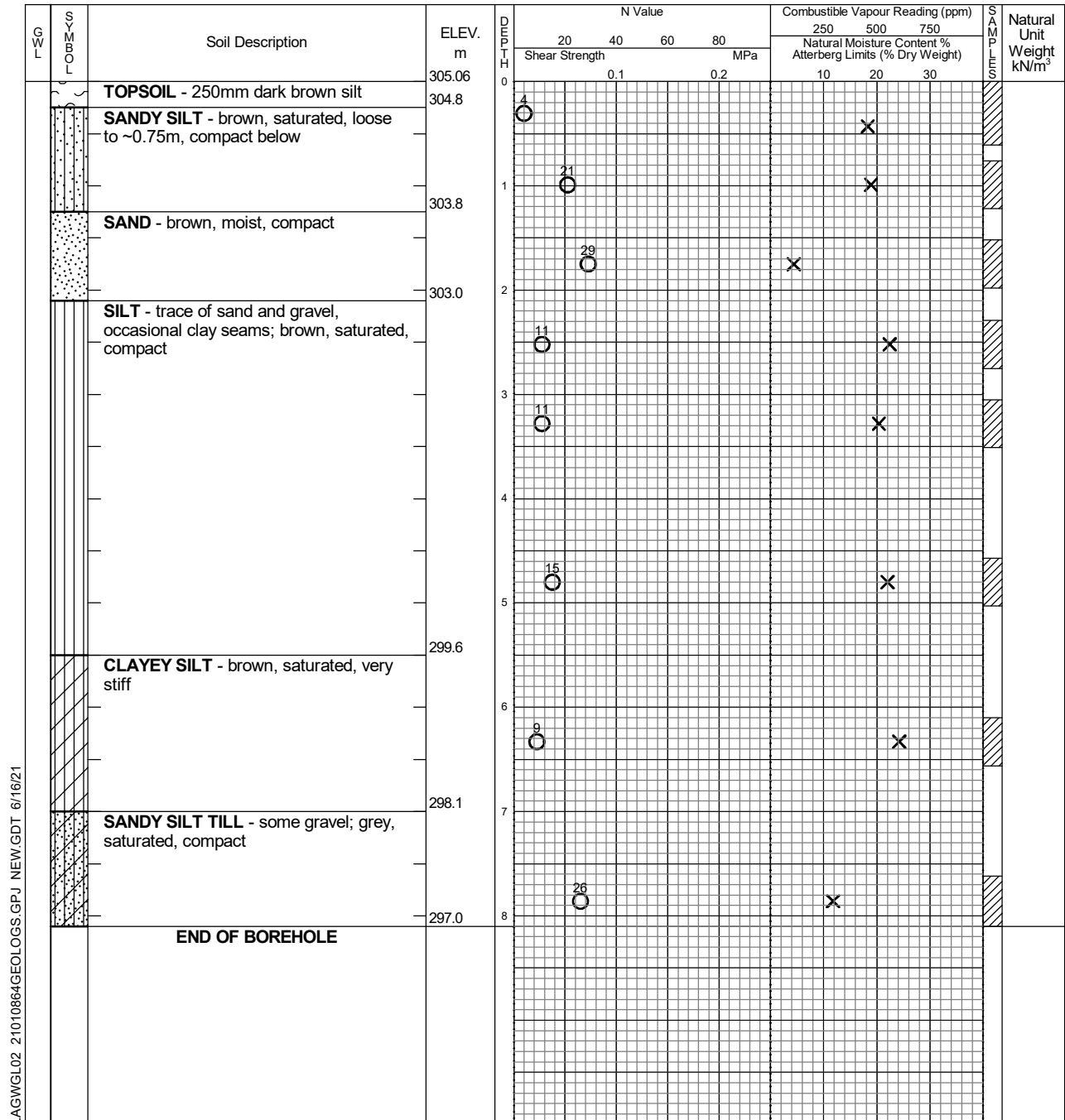
Undrained Triaxial at

% Strain at Failure

Penetrometer

Drill Type: CME 55

Datum: Geodetic



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 5.69            | 5.69              |

# Log of Borehole 6

Project No. BRM-21010864-AO

Drawing No. 7

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 27, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



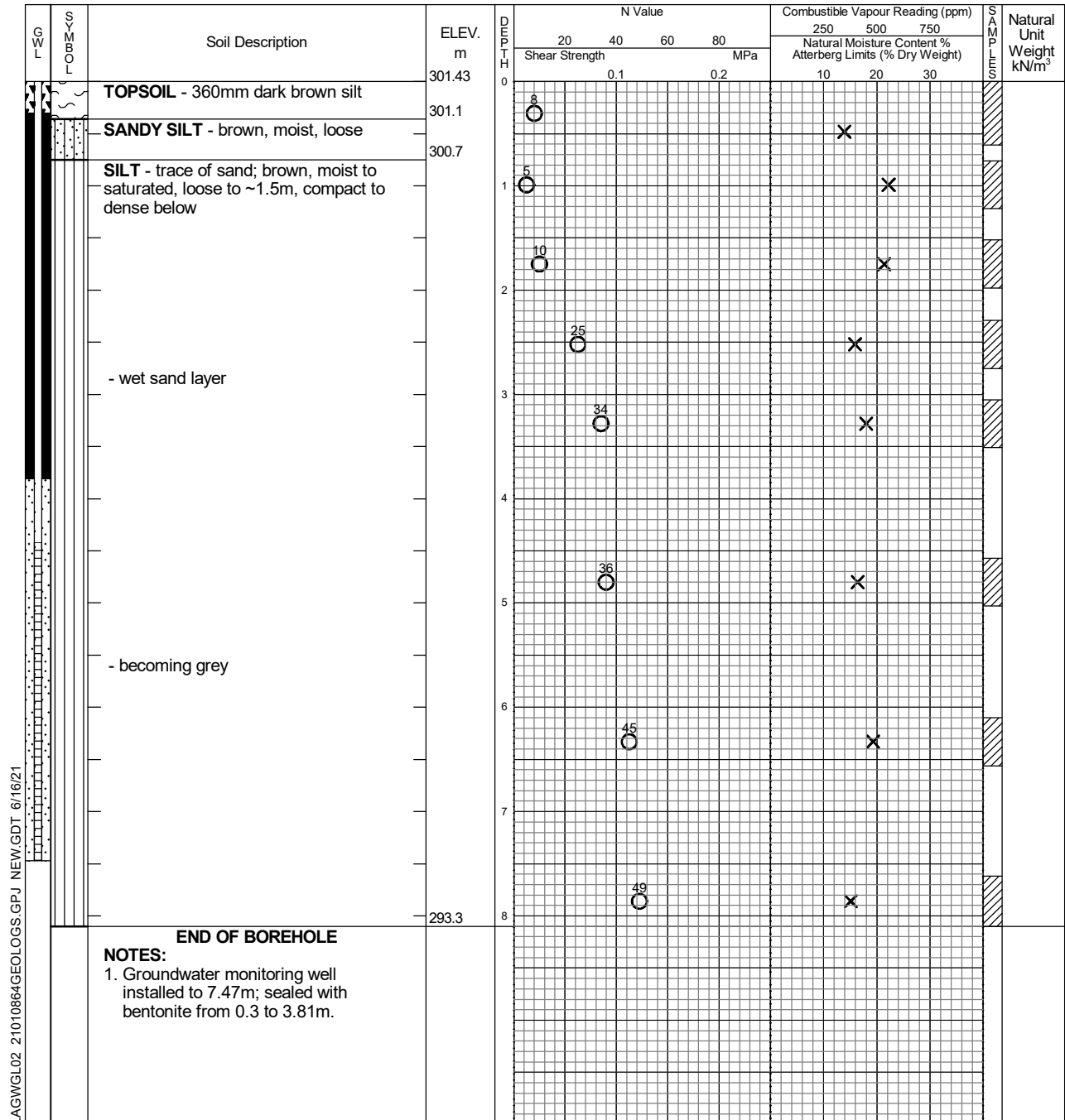
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 1.37            | Borehole          |
| After 11 days | 1.68            | Well              |

# Log of Borehole 7

Project No. BRM-21010864-AO

Drawing No. 8

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 28, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



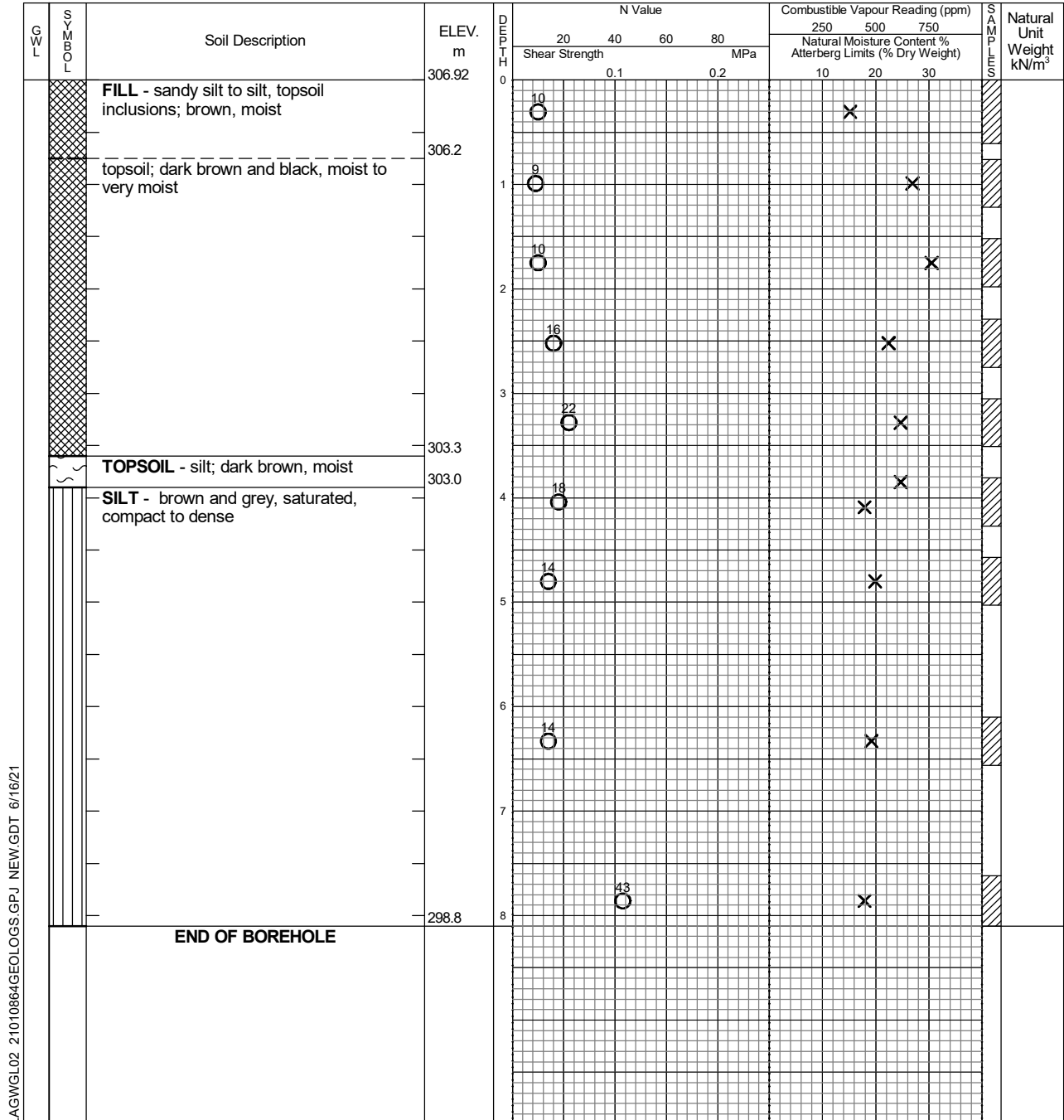
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.47            | 7.47              |

# Log of Borehole 8

Project No. BRM-21010864-AO

Drawing No. 9

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 31, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



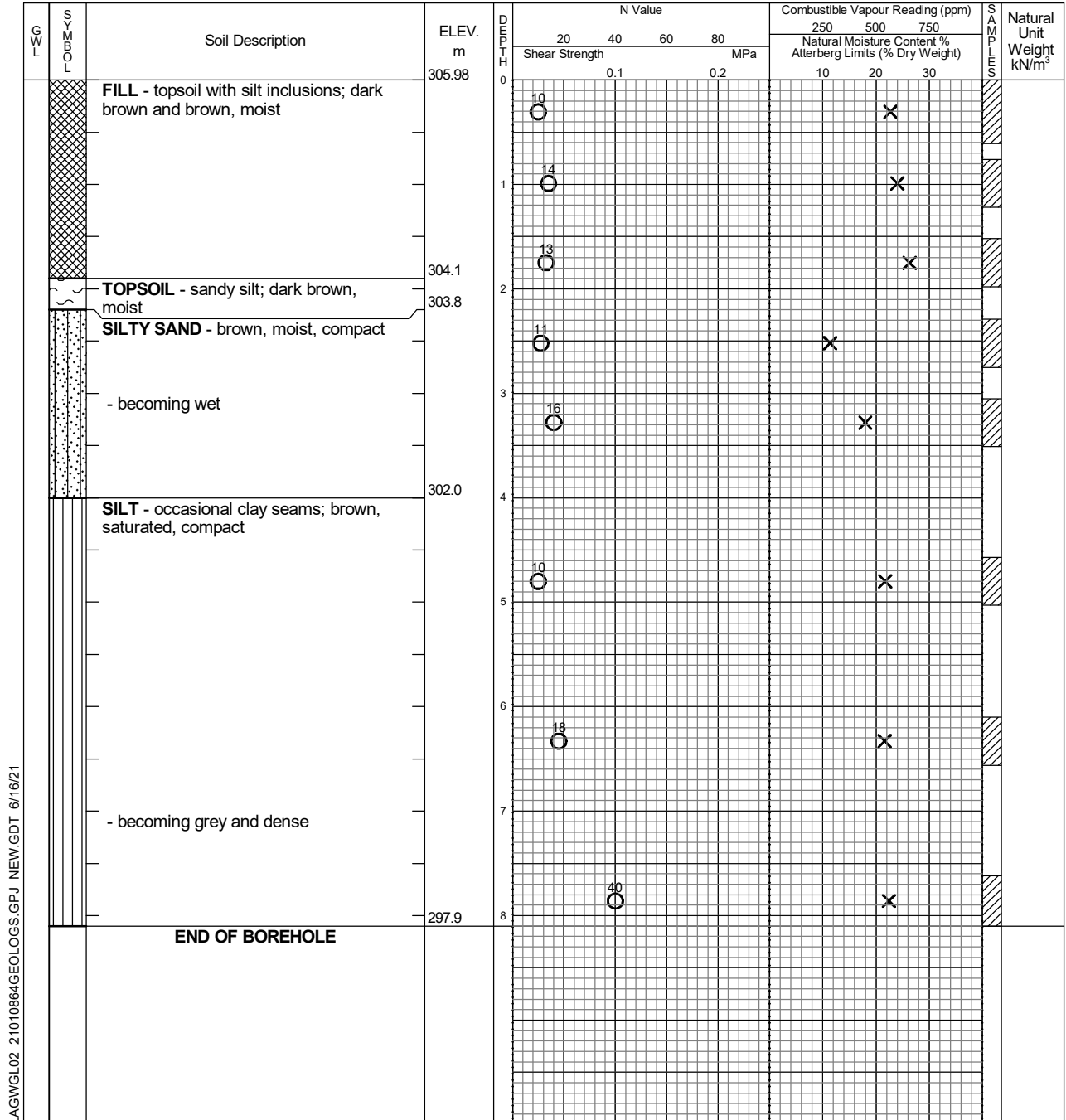
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 3.96            | 5.49              |



# Log of Borehole 9

Project No. BRM-21010864-AO

Drawing No. 10

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 27, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



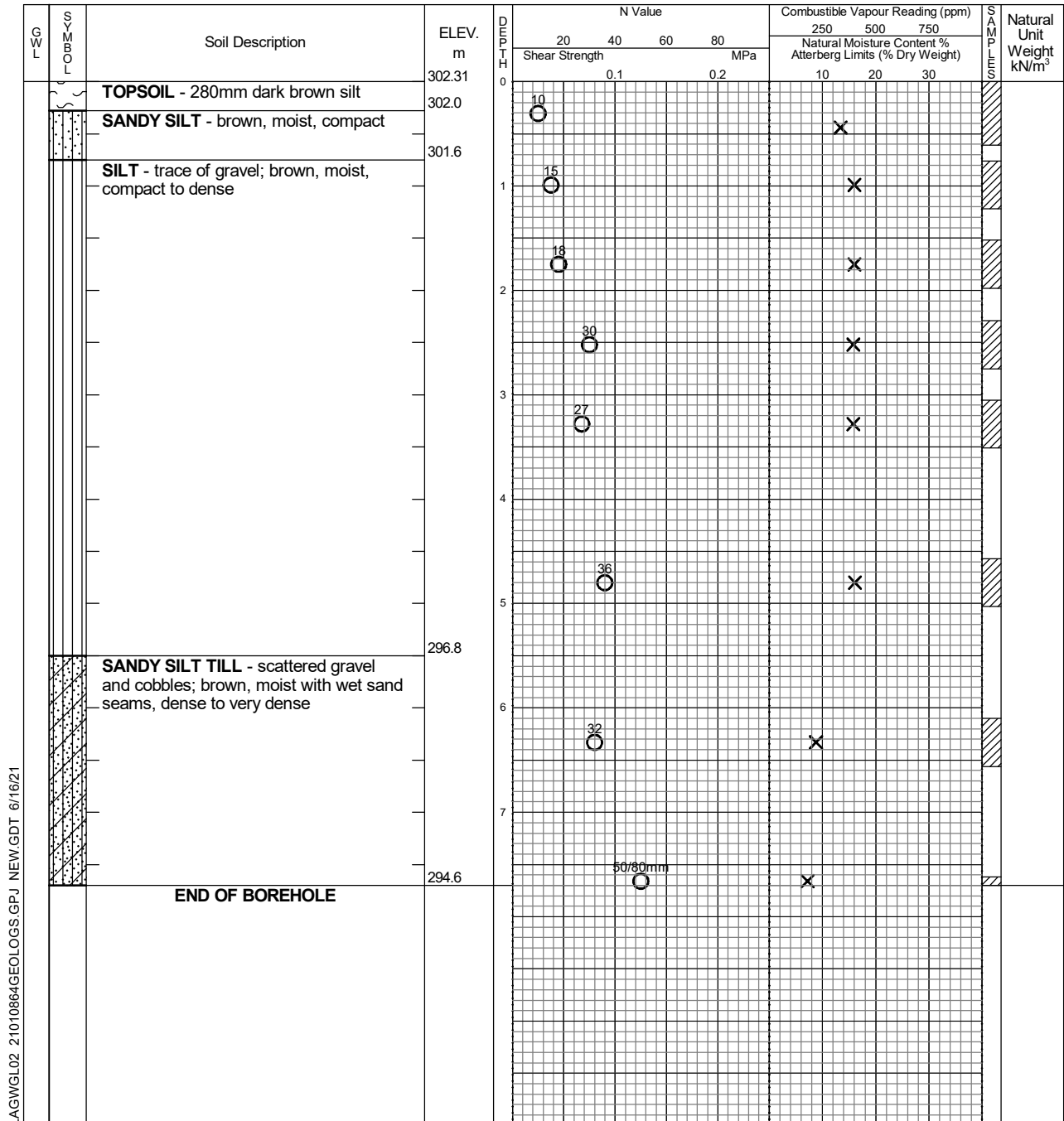
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | Dry             | 7.52              |

# Log of Borehole 10

Project No. BRM-21010864-AO

Drawing No. 11

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 28, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



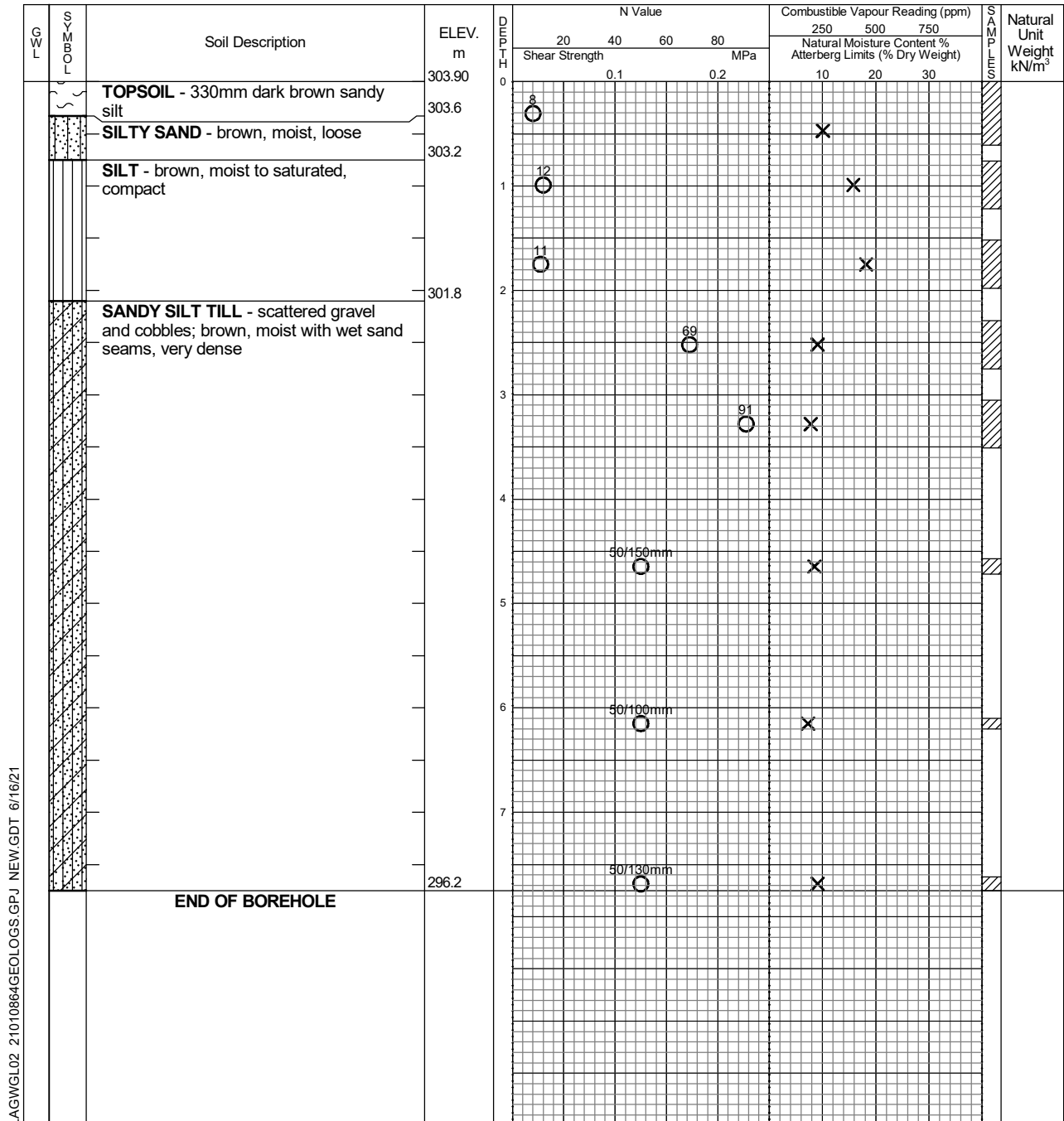
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.09            | 7.24              |

# Log of Borehole 11

Project No. BRM-21010864-AO

Drawing No. 12

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 26, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



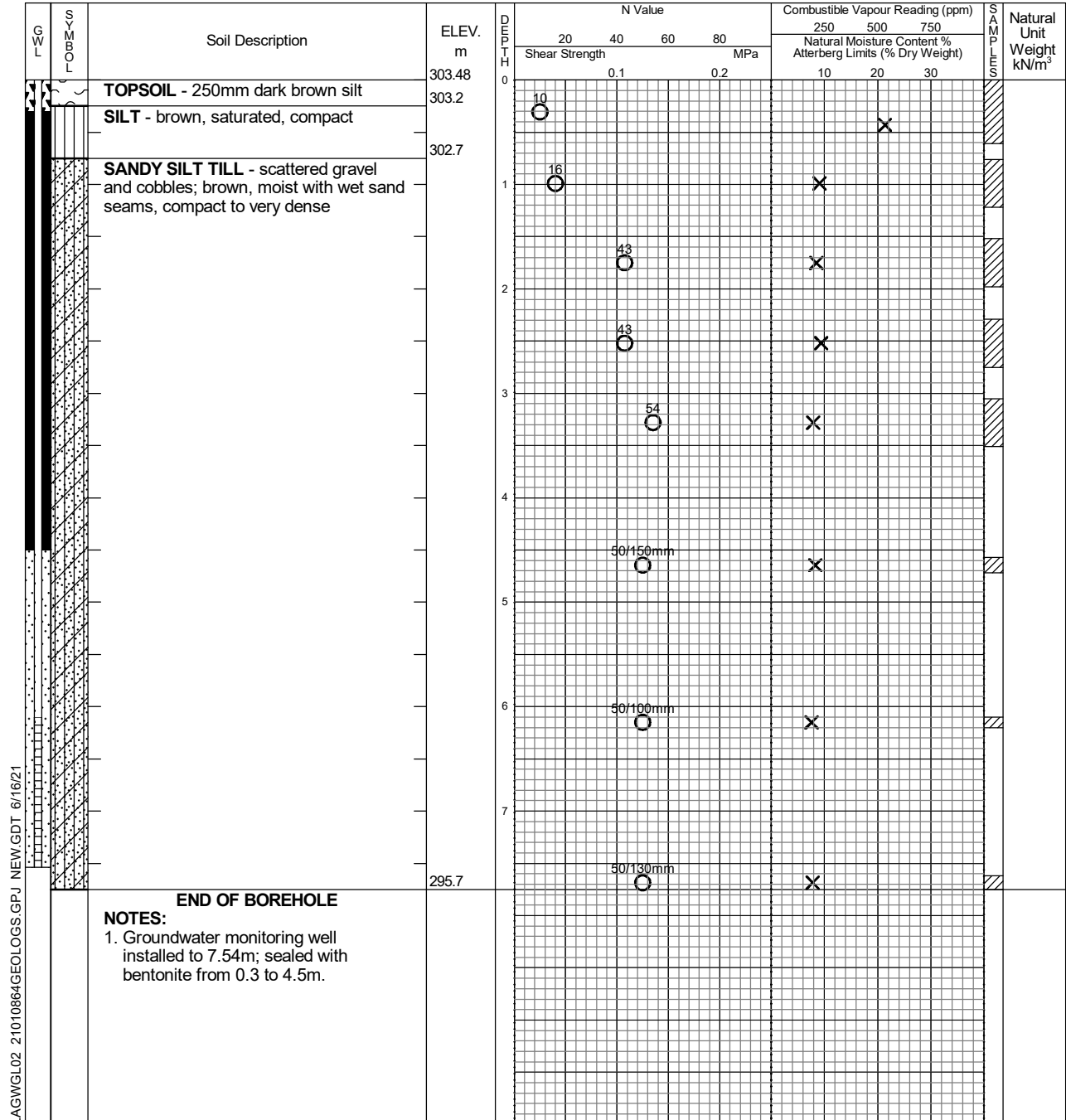
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.47            | Borehole          |
| After 12 days | 3.41            | Well              |

# Log of Borehole 12

Project No. BRM-21010864-AO

Drawing No. 13

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 27, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



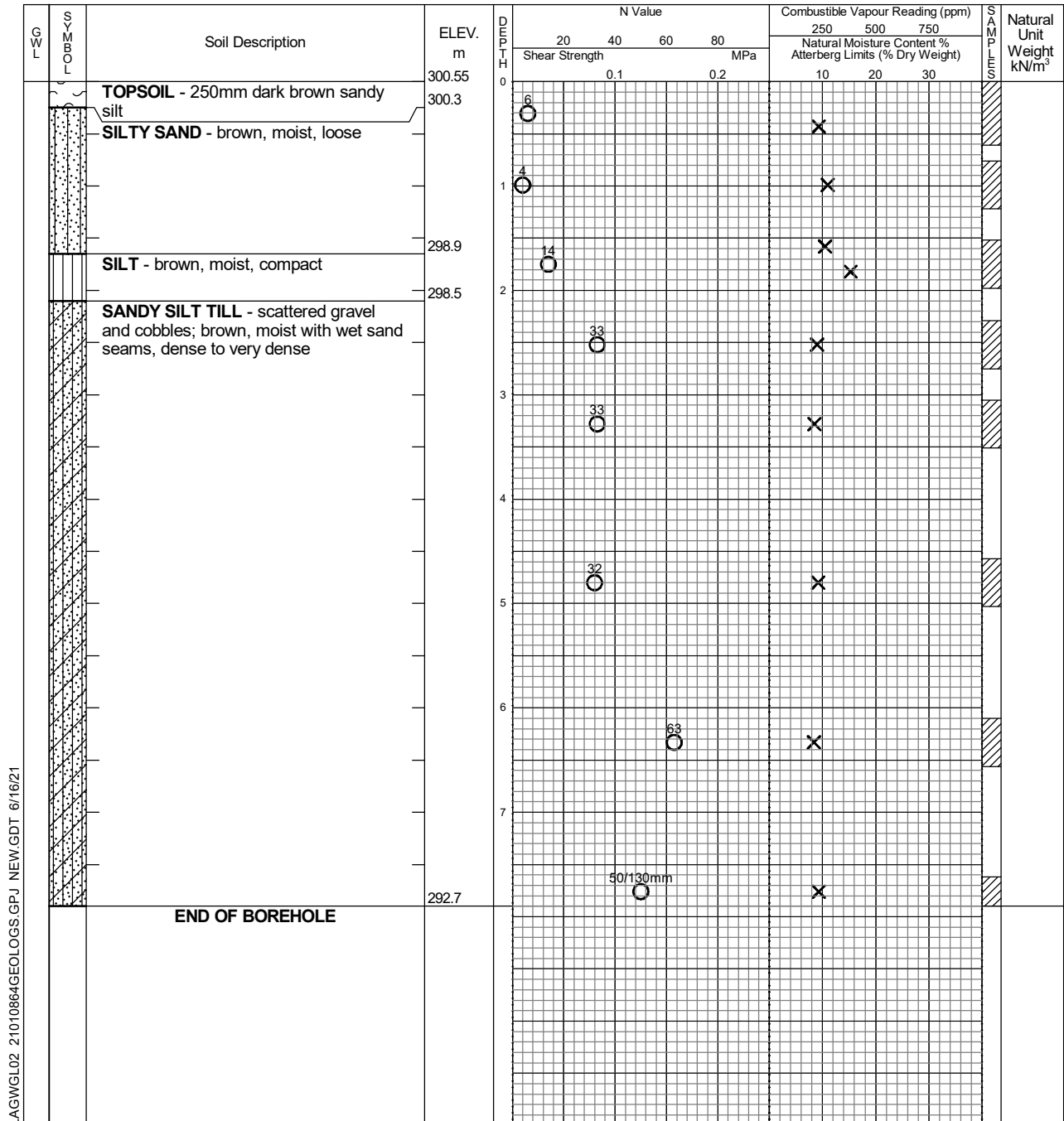
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.29            | 7.52              |

# Log of Borehole 13

Project No. BRM-21010864-AO

Drawing No. 14

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 28, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



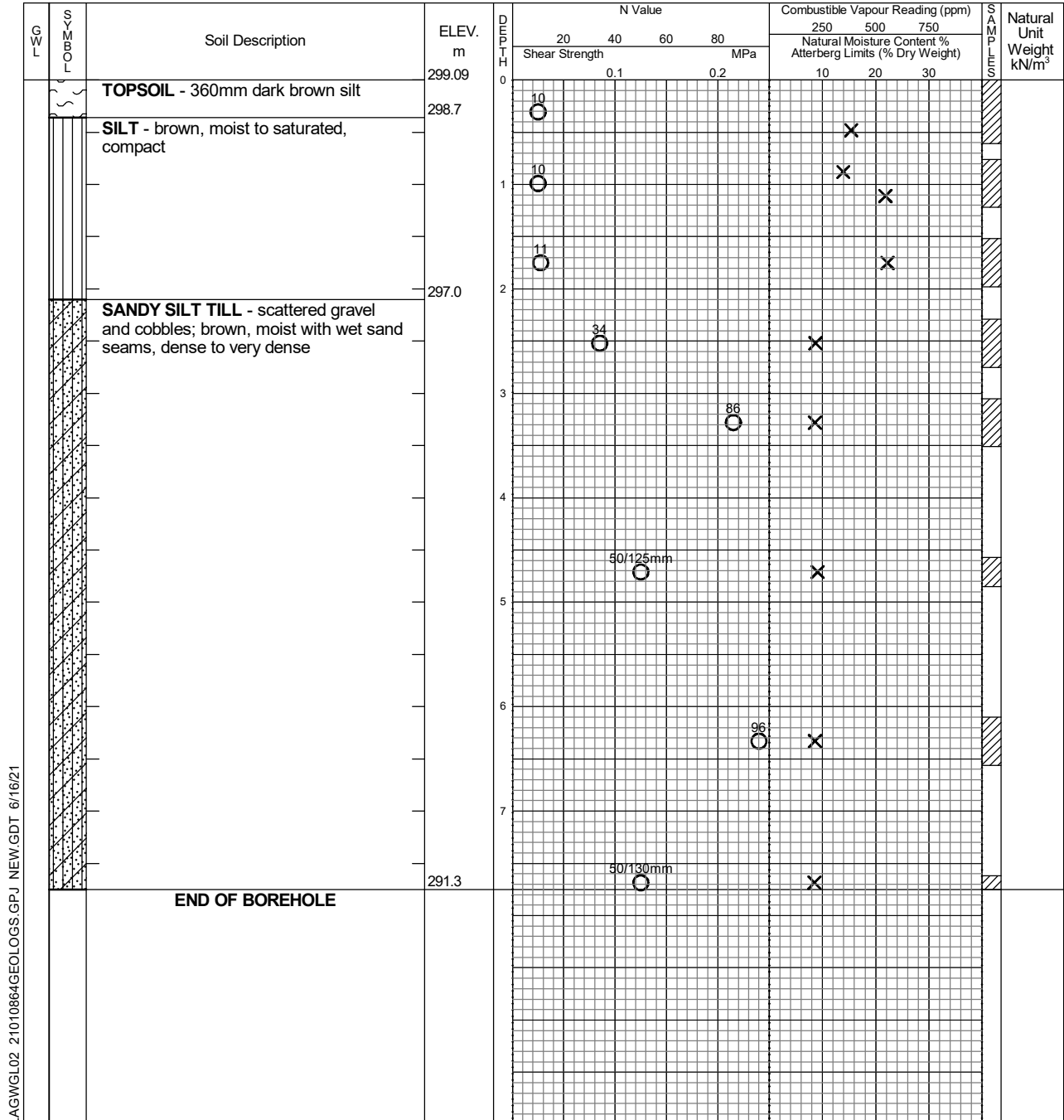
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.39            | 7.34              |

# Log of Borehole 14

Project No. BRM-21010864-AO

Drawing No. 15

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 26, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



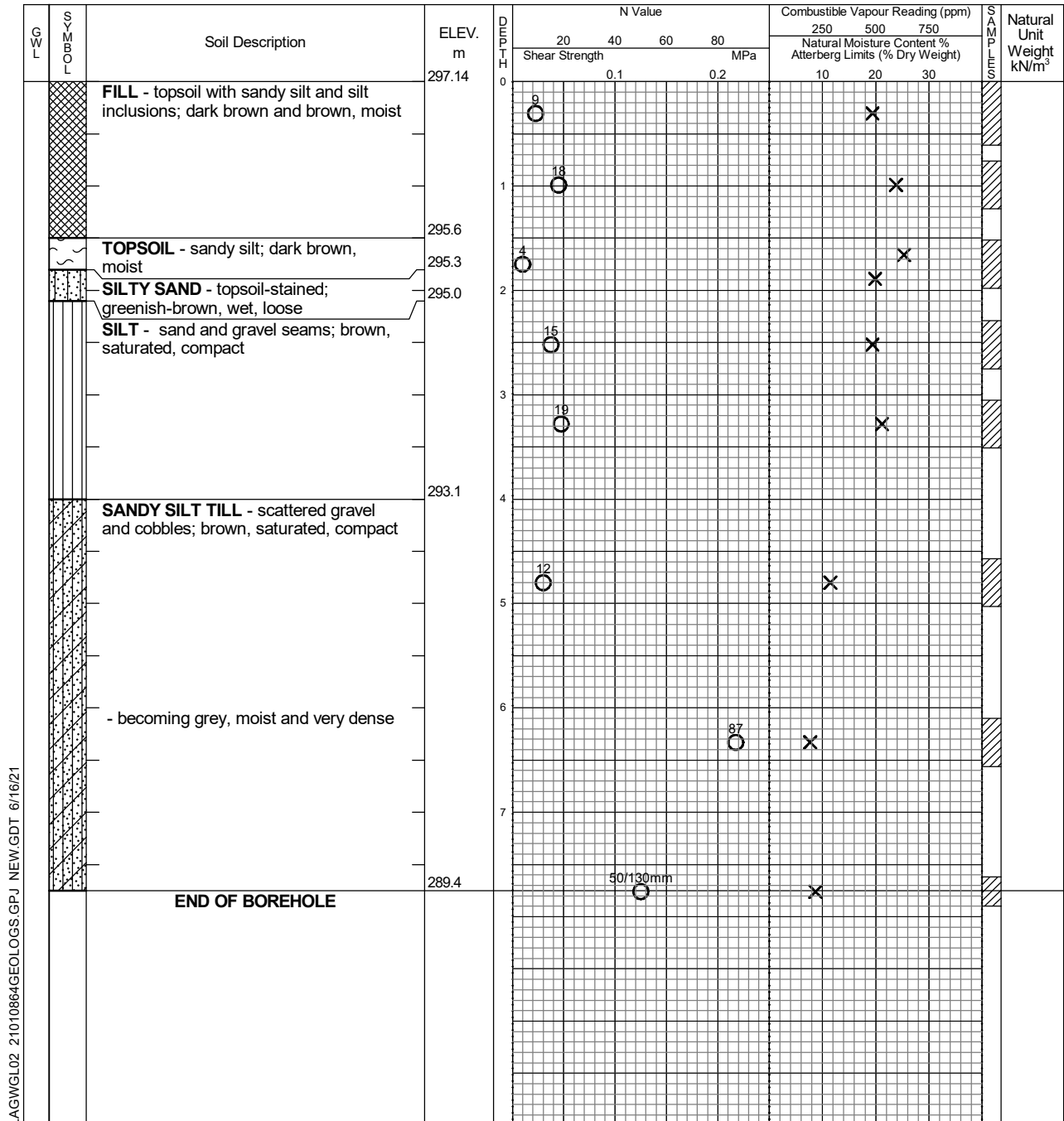
Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 4.39            | 5.59              |

# Log of Borehole 15

Project No. BRM-21010864-AO

Drawing No. 16

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 27, 2021

Auger Sample



Combustible Vapour Reading



SPT (N) Value



Natural Moisture



Drill Type: CME 55

Dynamic Cone Test



Plastic and Liquid Limit



Datum: Geodetic

Shelby Tube



Undrained Triaxial at



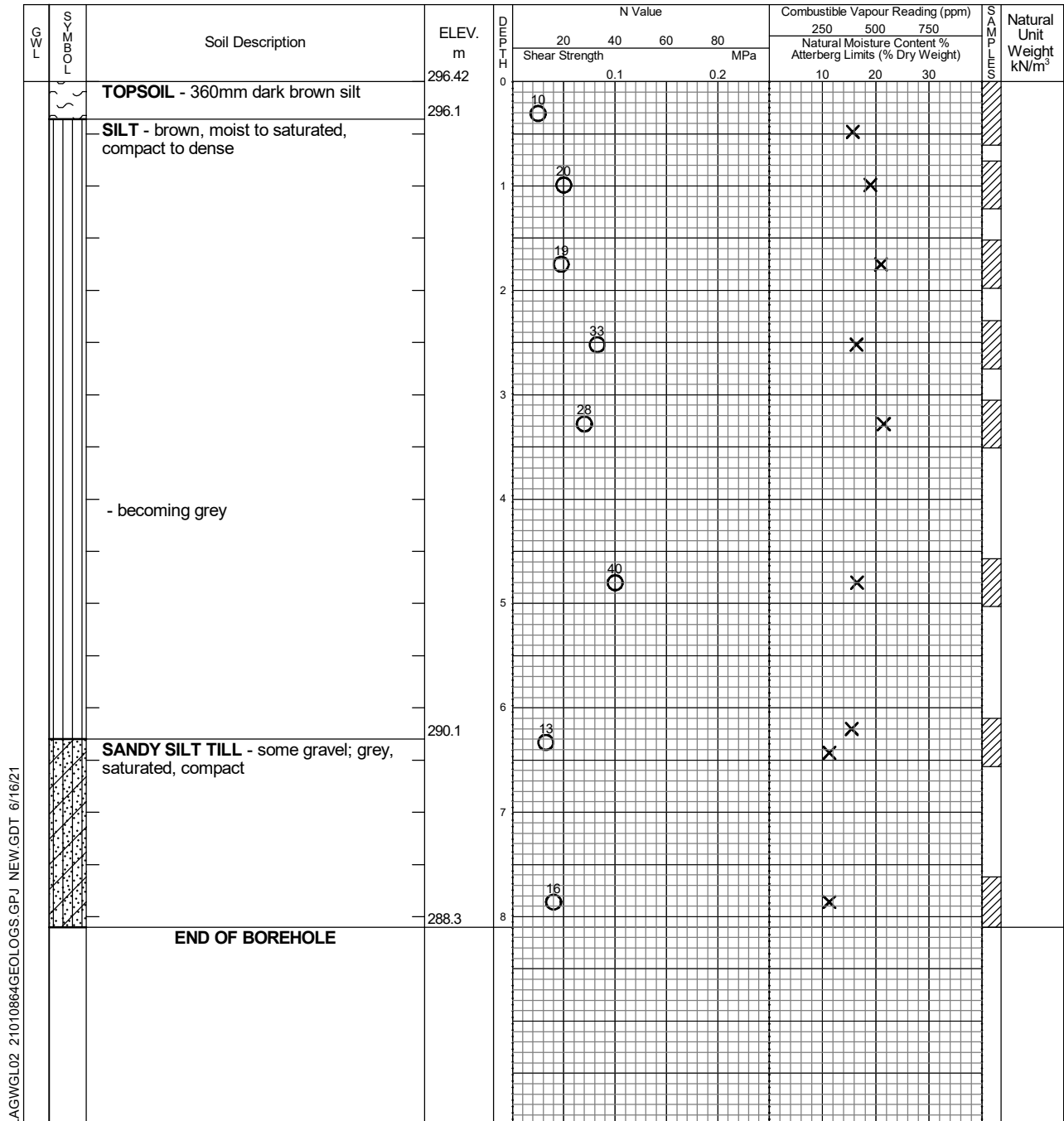
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 6.81            | 7.44              |

# Log of Borehole 16

Project No. BRM-21010864-AO

Drawing No. 17

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 31, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: CME 55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



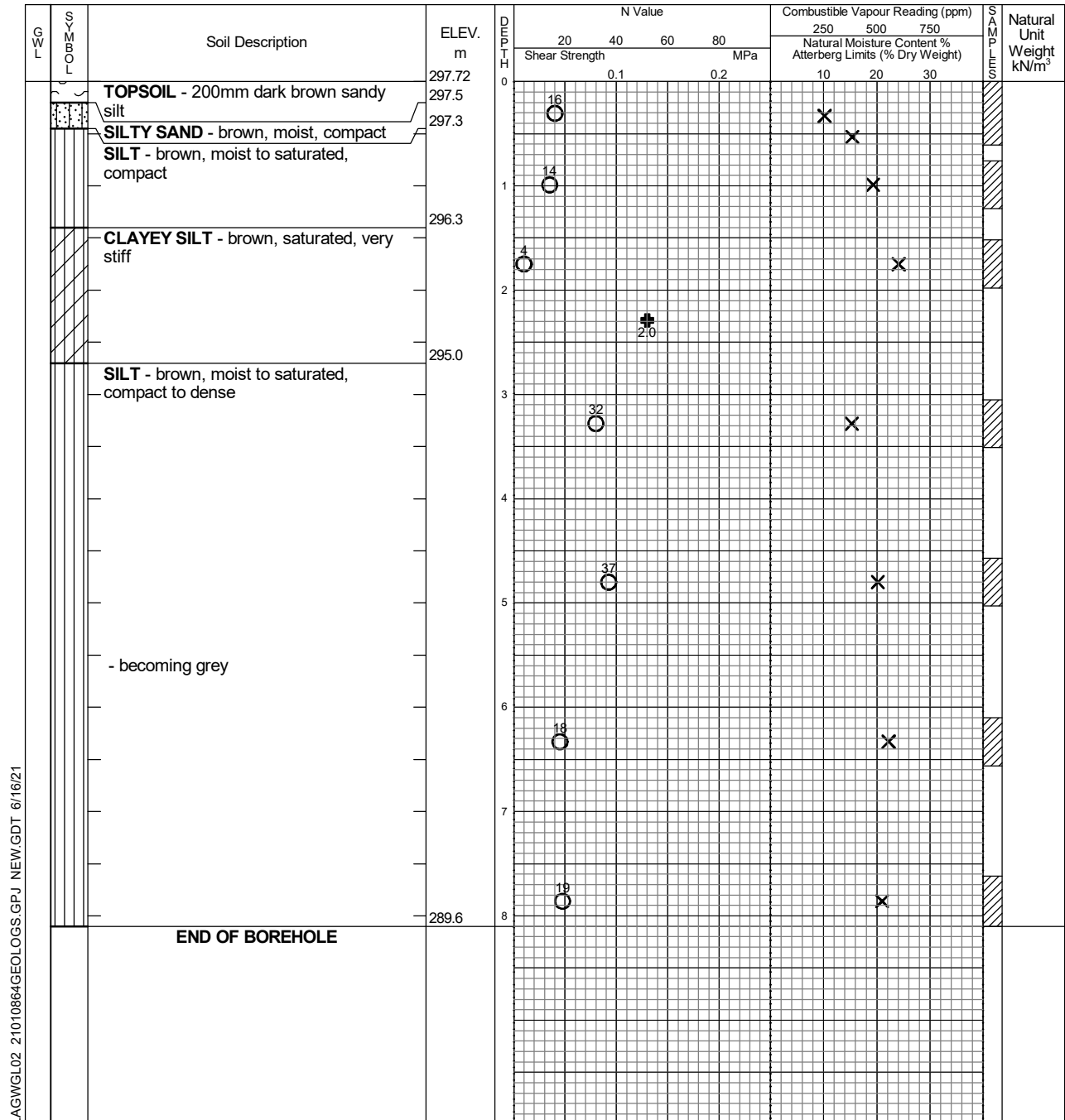
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 4.57            | 7.62              |



# Log of Borehole 17

Project No. BRM-21010864-AO

Drawing No. 18

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 26, 2021

Auger Sample



Combustible Vapour Reading



SPT (N) Value



Natural Moisture



Drill Type: CME 55

Dynamic Cone Test



Plastic and Liquid Limit



Datum: Geodetic

Shelby Tube



Undrained Triaxial at



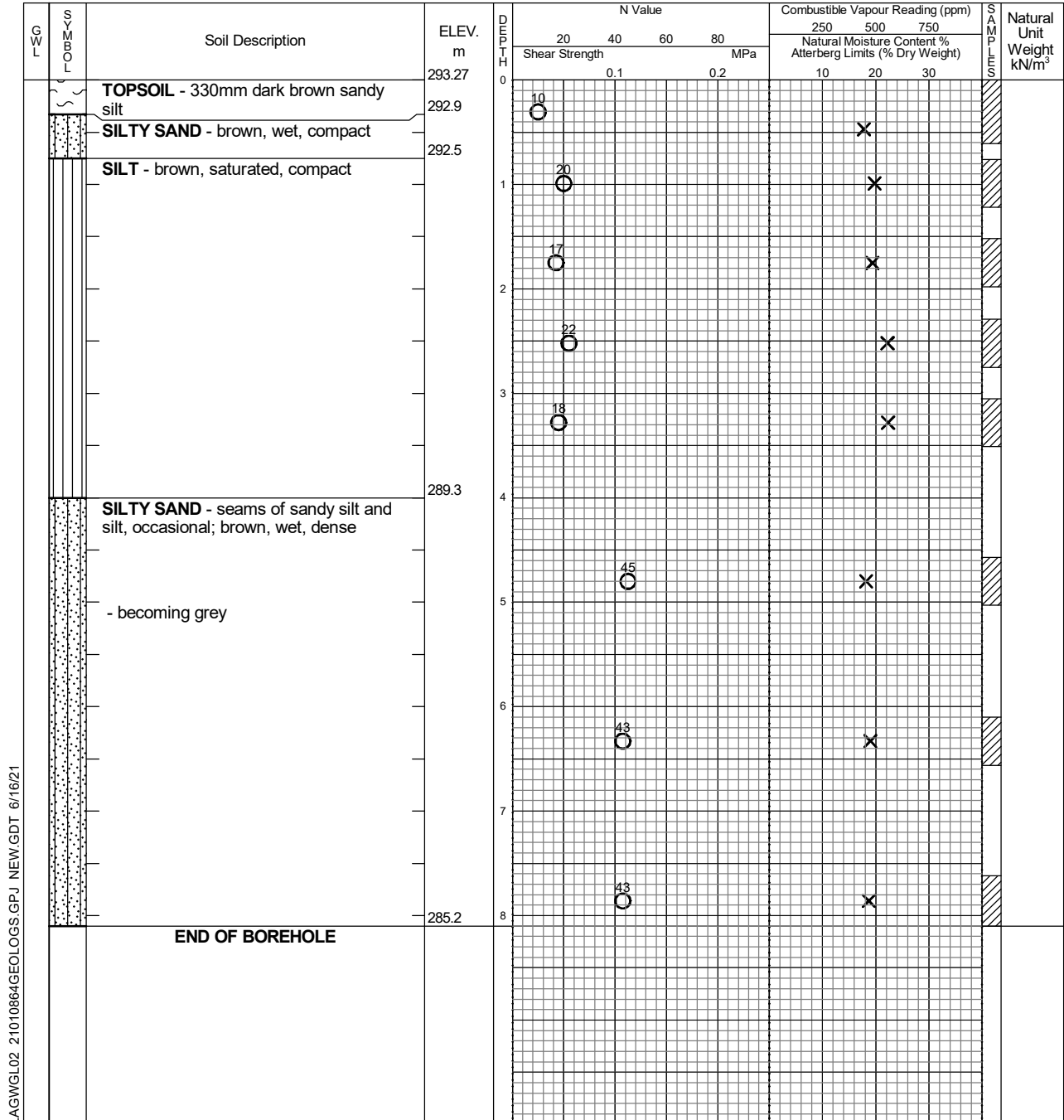
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864GEOLOGS.GPJ NEW.GDT 6/16/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 1.73            | 2.97              |

# Log of Borehole 18

Project No. BRM-21010864-AO

Drawing No. 19

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 25, 2021

Auger Sample

SPT (N) Value

### Dynamic Cone Test

Shelby Tube

### Field Vane Test

### Combustible Vapour Reading

### Natural Moisture

### Plastic and Liquid Limit

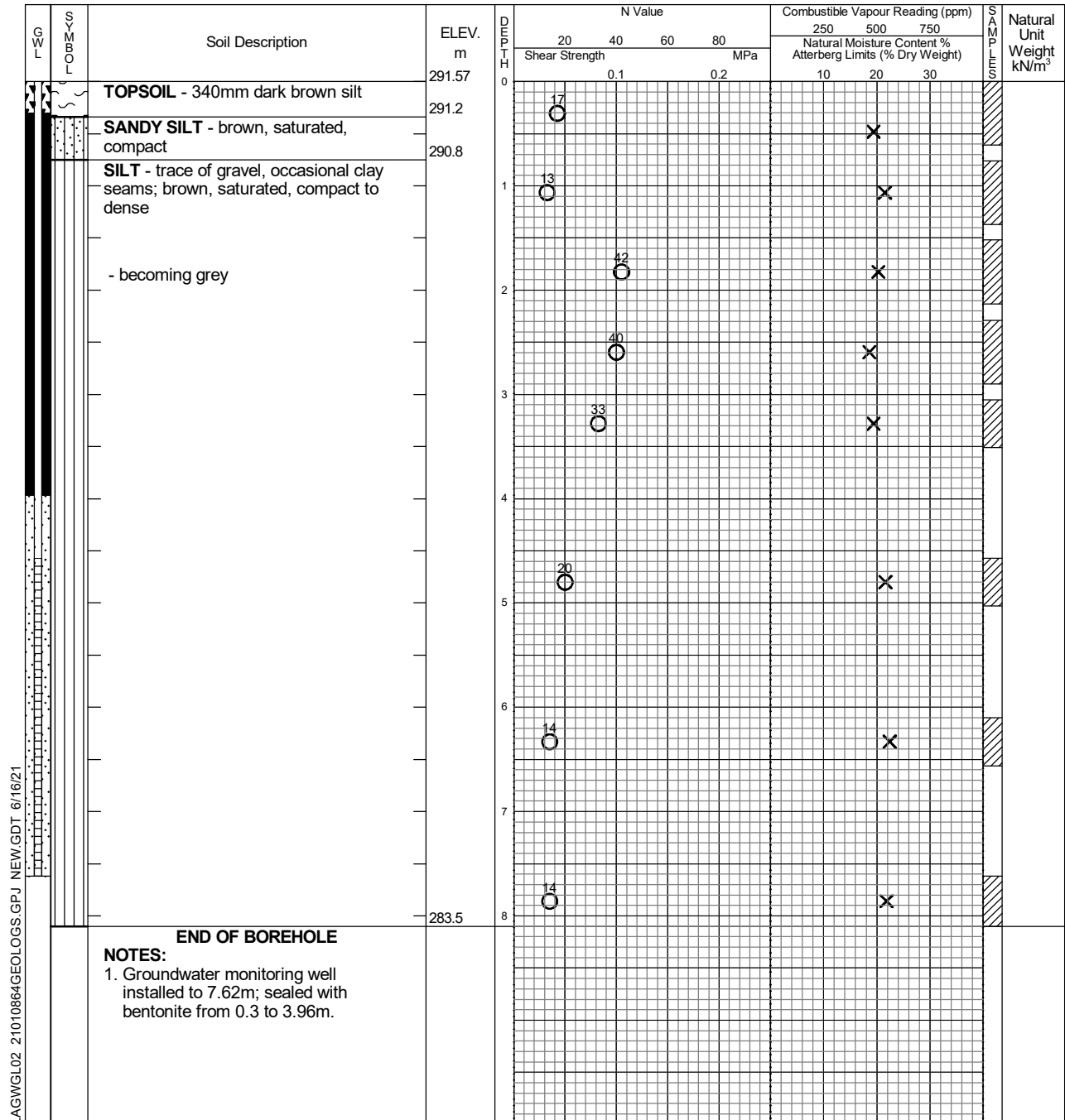
Undrained Triaxial at

### % Strain at Failure

Penetrometer

Drill Type: CME 55

Datum: Geodetic



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.01            | Borehole          |
| After 13 days | 0.56            | Well              |

## Log of Borehole 19

Project No. BRM-21010864-AO

Drawing No. 20

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 25, 2021

Drill Type: CME 55

Datum: Geodetic

Auger Sample

SPT (N) Value

### Dynamic Cone Test

Shelby Tube

### Field Vane Test

### Combustible Vapour Reading

## Natural Moisture

### Plastic and Liquid Limit

Undrained Triaxial at

### % Strain at Failure

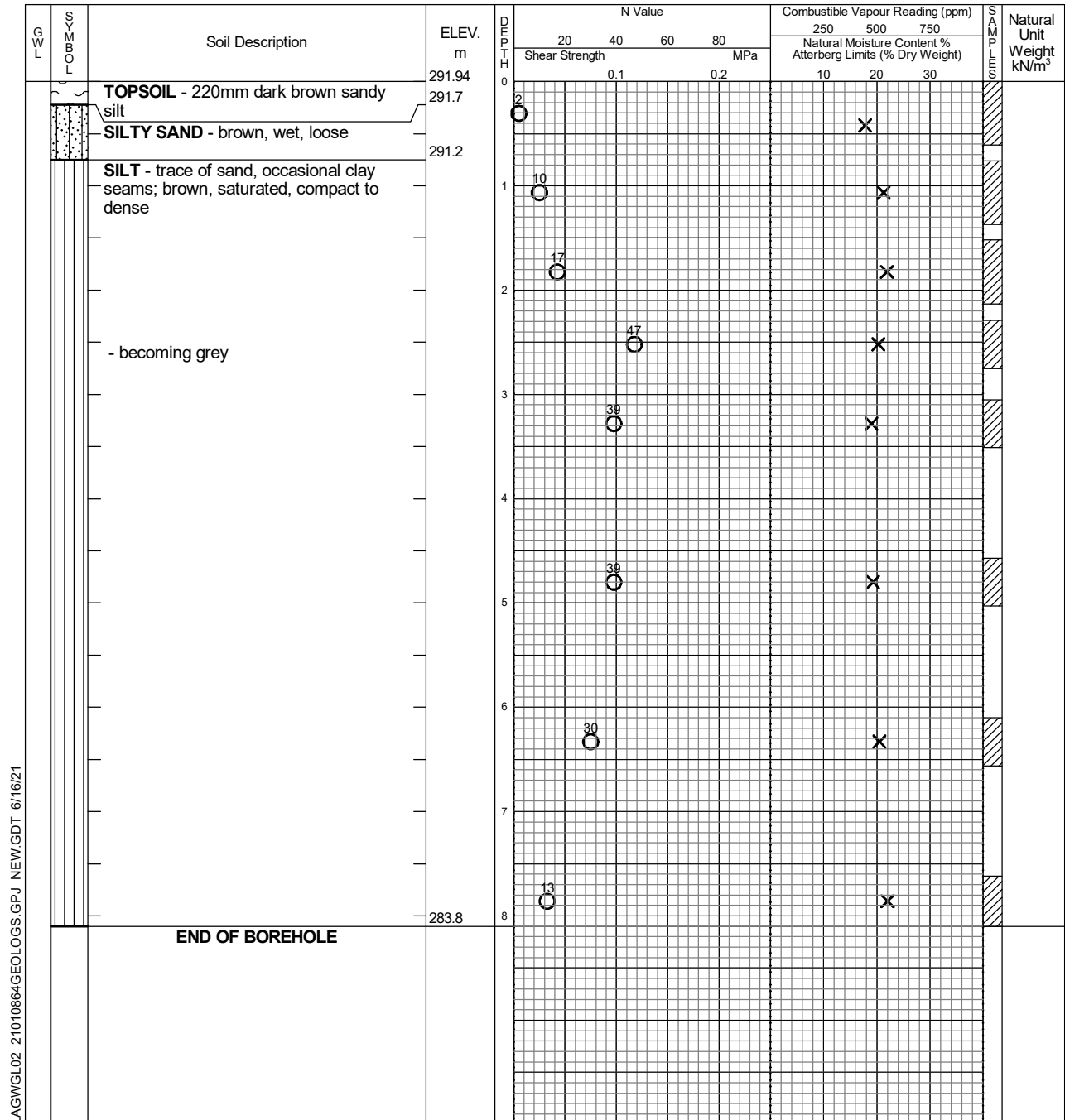
Penetrometer

☐

X



▲



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 1.83            | 5.49              |

# Log of Borehole 20

Project No. BRM-21010864-AO

Drawing No. 21

Project: Preliminary Geotechnical Investigation - Residential Development

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: May 25, 2021

Auger Sample

SPT (N) Value

## Dynamic Cone Test

Shelby Tube

### Field Vane Test

### Combustible Vapour Reading

## Natural Moisture

### Plastic and Liquid Limit

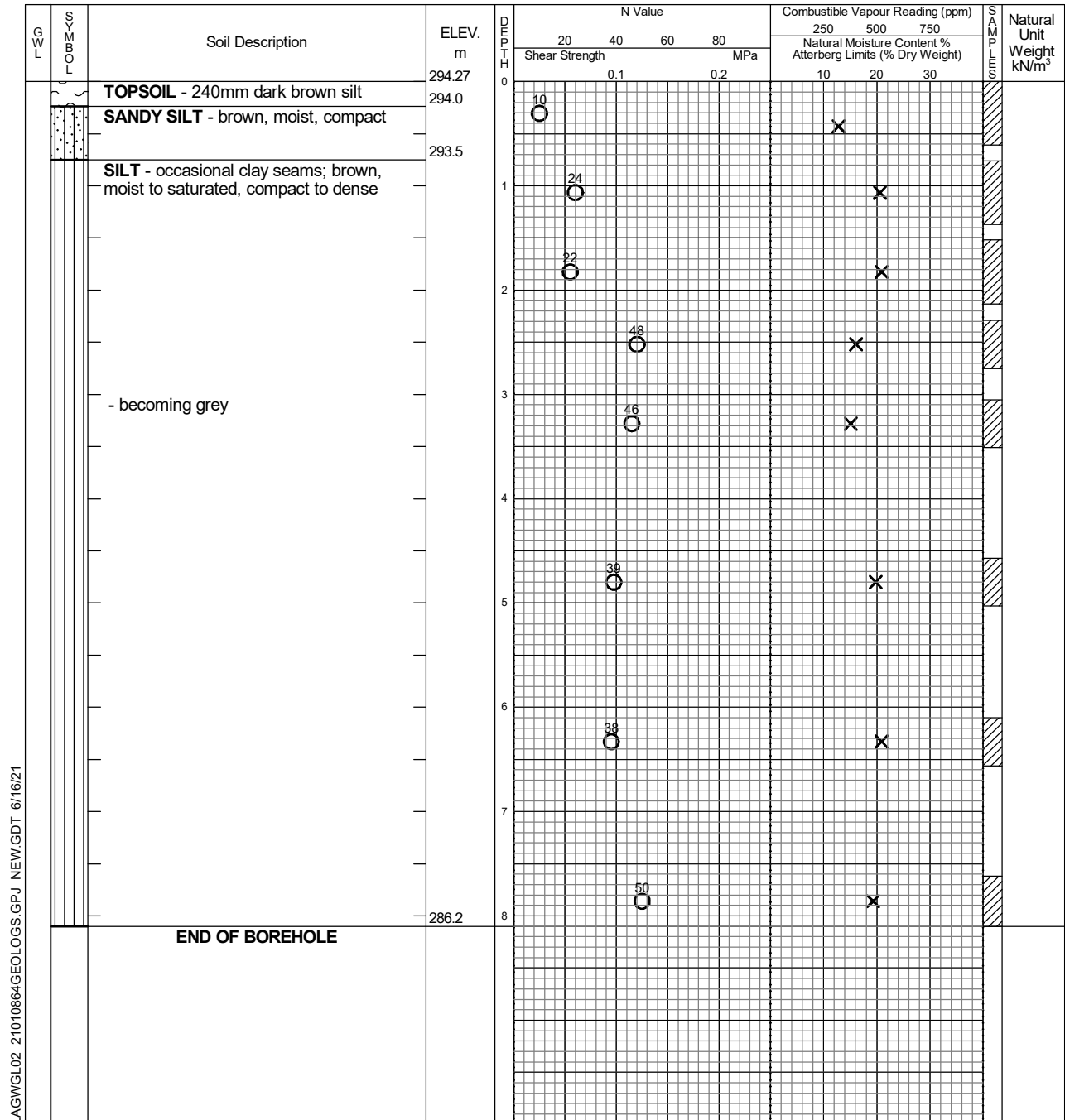
Undrained Triaxial at

% Strain at Failure

Penetrometer

Drill Type: CME 55

Datum: Geodetic



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On completion | 7.31            | 7.62              |

# Log of Borehole BH-101

Project No. BRM-21010864-BO

Drawing No. 2

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 1, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



| GWL | SYMBOL | Soil Description  | ELEV.<br>m | DEPTH<br>m | N Value            |     | Combustible Vapour Reading (ppm) |    |   | Natural<br>Unit<br>Weight<br>kN/m³ |     |     |
|-----|--------|---|------------|------------|--------------------|-----|----------------------------------|----|---|------------------------------------|-----|-----|
|     |        |   |            |            | 20                 | 40  | 60                               | 80 | 250   |                                    | 500 | 750 |
|     |        |   |            |            | Shear Strength MPa |     |                                  |    | Natural Moisture Content %<br>Atterberg Limits (% Dry Weight) |                                    |     |     |
|     |        |   | 296.70     | 0          |                    | 0.1 | 0.2                              |    | 10  | 20                                 | 30  |     |
|     |        | <b>FILL</b> - sand with some gravel; topsoil inclusions, pieces of brick and wood; brown, moist; no odour or staining; loose to compact |            |            | 19                 |     |                                  |    | 0.6ppm  |                                    |     |     |
|     |        |   |            | 1          | 7                  |     |                                  |    | 0.8ppm  |                                    |     |     |
|     |        |   | 295.3      |            |                    |     |                                  |    |   |                                    |     |     |
|     |        | silt; topsoil inclusions, wood pieces; brown and dark brown, moist; no odour or staining; compact                                       |            | 2          | 11                 |     |                                  |    | 1.2ppm  |                                    |     |     |
|     |        |   | 294.5      |            |                    |     |                                  |    |   |                                    |     |     |
|     |        | <b>SILT</b> - brown, saturated; no odour or staining; compact   |            |            | 24                 |     |                                  |    | 1.4ppm  |                                    |     |     |
|     |        |   |            | 3          | 29                 |     |                                  |    | 1.0ppm  |                                    |     |     |
|     |        |   | 293.1      |            |                    |     |                                  |    |   |                                    |     |     |
|     |        | <b>END OF BOREHOLE</b>  |            |            |                    |     |                                  |    |   |                                    |     |     |

LAGWGL02 21010864PHASE2LOGS.GPJ NEW.GDT 6/17/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | Dry             | 3.05              |

# Log of Borehole BH-102

Project No. BRM-21010864-BO

Drawing No. 3

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 1, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



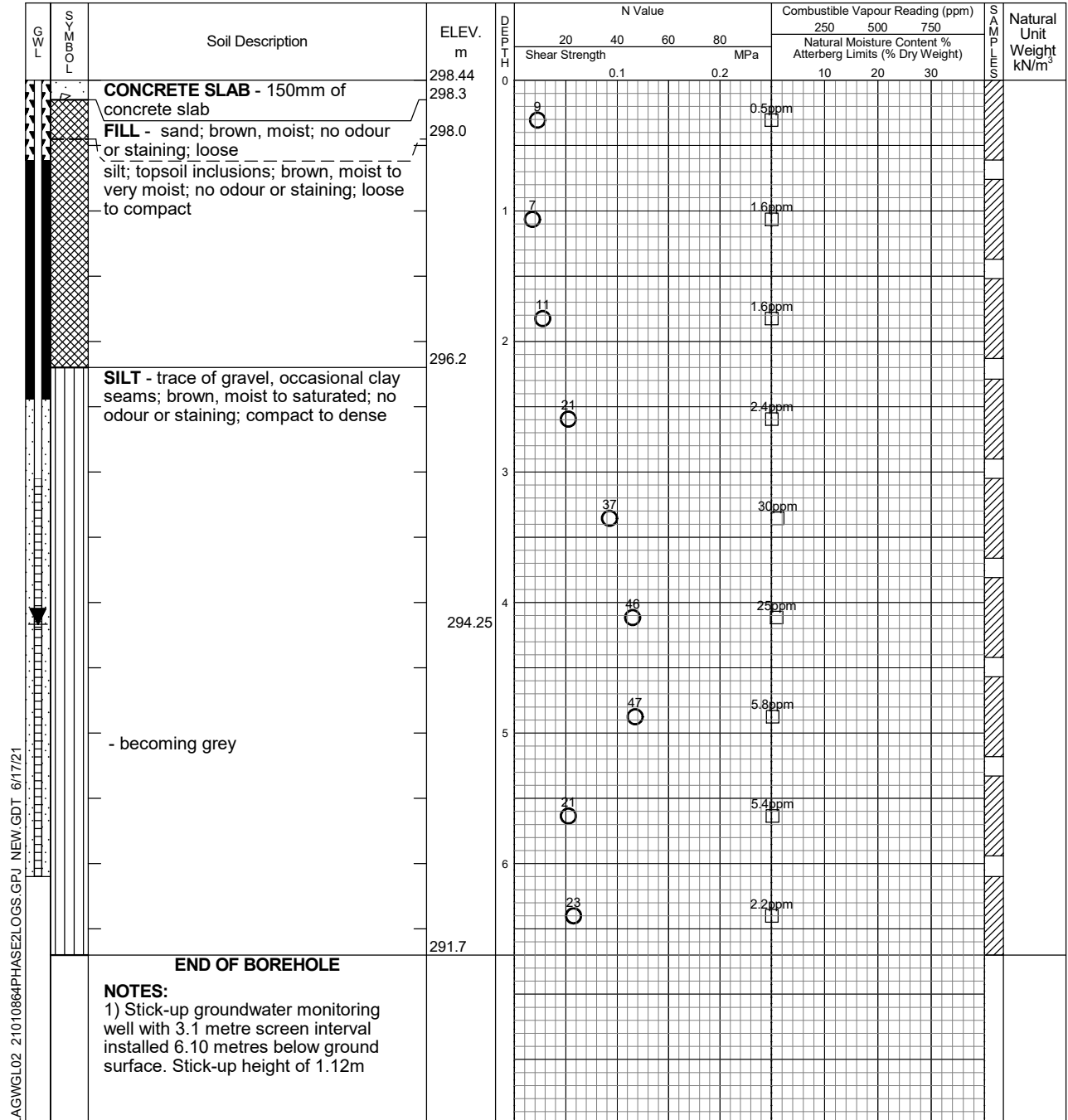
Field Vane Test



% Strain at Failure



Penetrometer



LAGWGL02 21010864PHASE2LOGS.GPJ NEW.GDT 6/17/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | 5.43            | (Well)            |
| June 7, 2021  | 3.03            |                   |
| June 8, 2021  | 4.19            |                   |

# Log of Borehole BH-103

Project No. BRM-21010864-BO

Drawing No. 4

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 1, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



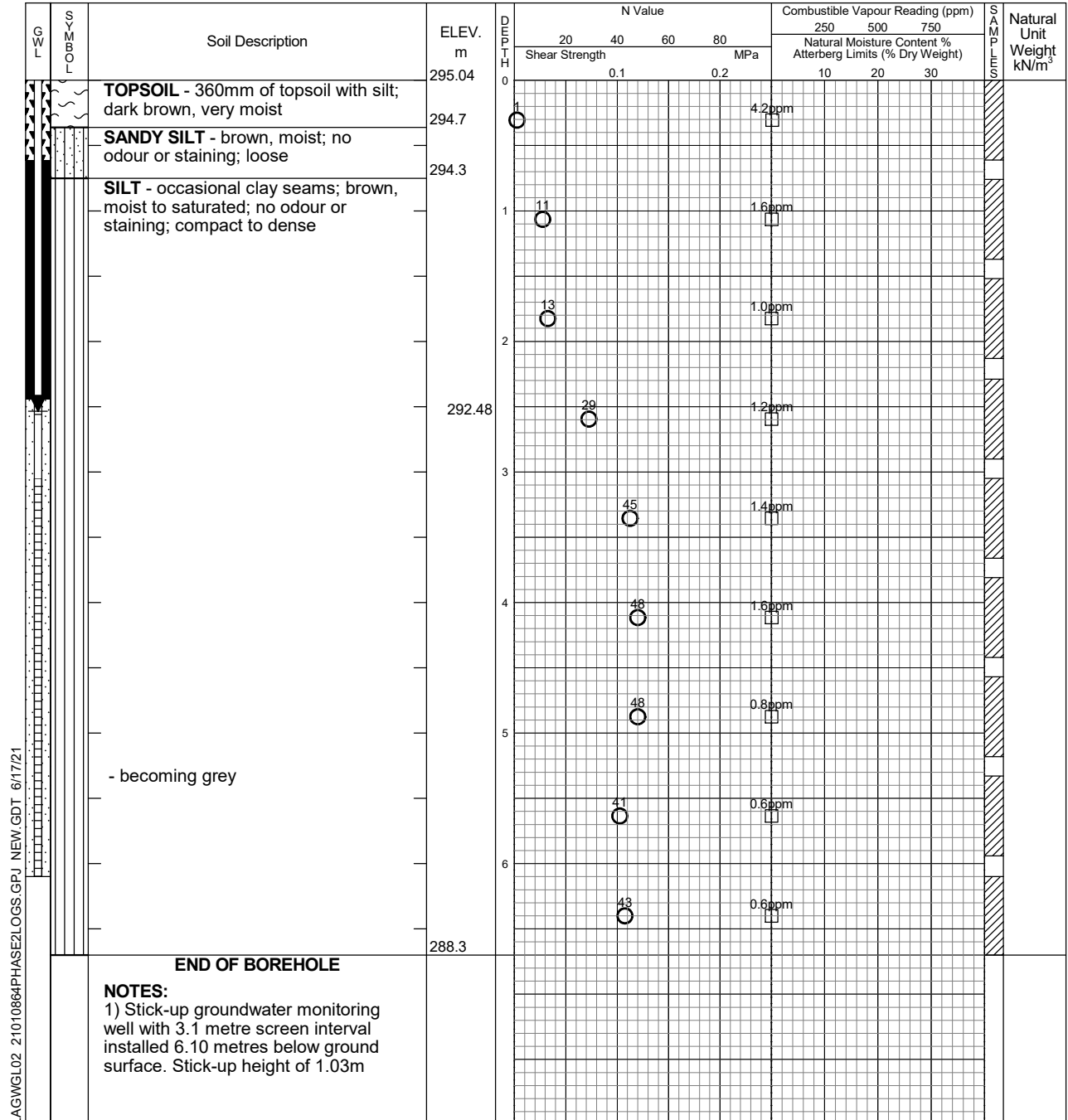
Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



LAGWGL02 21010864PHASE2LOGS.GPJ NEW.GDT 6/17/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | 5.40            | (Well)            |
| June 7, 2021  | 2.55            |                   |
| June 8, 2021  | 2.56            |                   |

# Log of Borehole BH-104

Project No. BRM-21010864-BO

Drawing No. 5

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 2, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



| GWL | SYMBOL | Soil Description  | ELEV.<br>m | DEPTH<br>m | N Value            |    | Combustible Vapour Reading (ppm)                              |        |  | Natural<br>Unit<br>Weight<br>kN/m <sup>3</sup> |
|-----|--------|---|------------|------------|--------------------|----|---|--------|--|--|
|     |        |   |            |            | 20 40 60 80        |    | 250 500 750   |        |  |  |
|     |        |   |            |            | Shear Strength MPa |    | Natural Moisture Content %<br>Atterberg Limits (% Dry Weight) |        |  |  |
|     |        |   |            |            | 0.1 0.2            |    | 10 20 30  |        |  |  |
|     |        | <b>FILL</b> - sandy silt, some gravel; topsoil inclusions, wood pieces; brown, moist; no odour or staining; compact | 298.41     | 0          | 37                 |    | 0.8ppm  |        |  |  |
|     |        |   | 297.4      | 1          | 30                 |    | 0.8ppm  |        |  |  |
|     |        | silt, trace of gravel; topsoil inclusions; brown, very moist; no odour or staining; loose to compact                |            |            |                    |    |   |        |  |  |
|     |        |   | 296.2      | 2          | 4                  |    | 0.6ppm  |        |  |  |
|     |        | <b>SILT</b> - brown and grey, moist to saturated; no odour or staining; compact to dense                            |            |            |                    | 28 |   | 0.6ppm |  |  |
|     |        |   |            | 3          | 45                 |    | 0.4ppm  |        |  |  |
|     |        | <b>END OF BOREHOLE</b>  | 294.8      |            |                    |    |   |        |  |  |

LAGWGL02 21010864PHASE2LOGS.GPJ NEW.GDT 6/17/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | Dry             | 3.05              |



# Log of Borehole BH-105

Project No. BRM-21010864-BO

Drawing No. 6

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 2, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



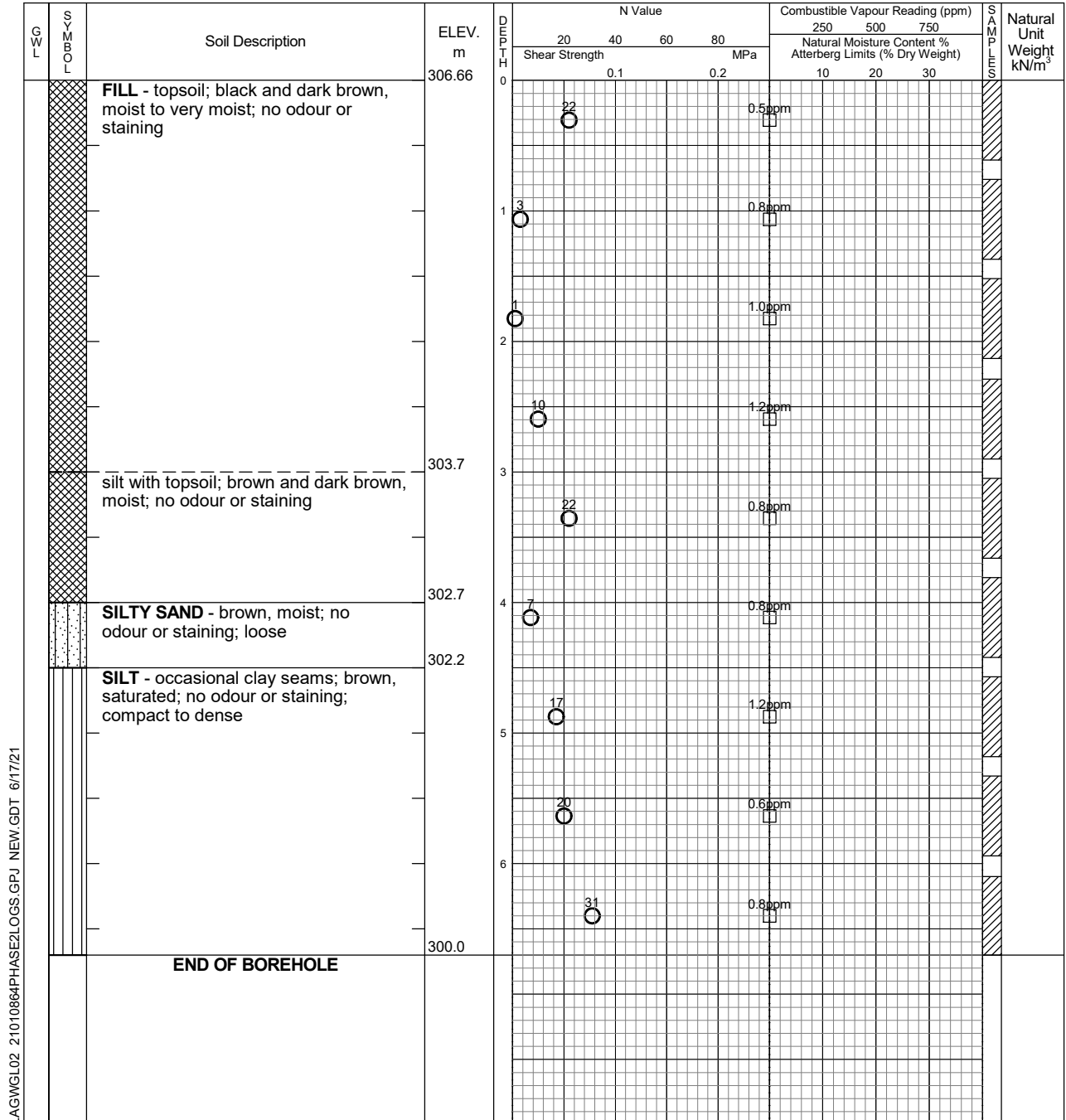
Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



# Log of Borehole BH-106

Project No. BRM-21010864-BO

Drawing No. 7

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 2, 2021

Auger Sample

### Combustible Vapour Reading

### Natural Moisture

Drill Type: Track Mounted CME-55

SPT (N) Value

### Plastic and Liquid Limit

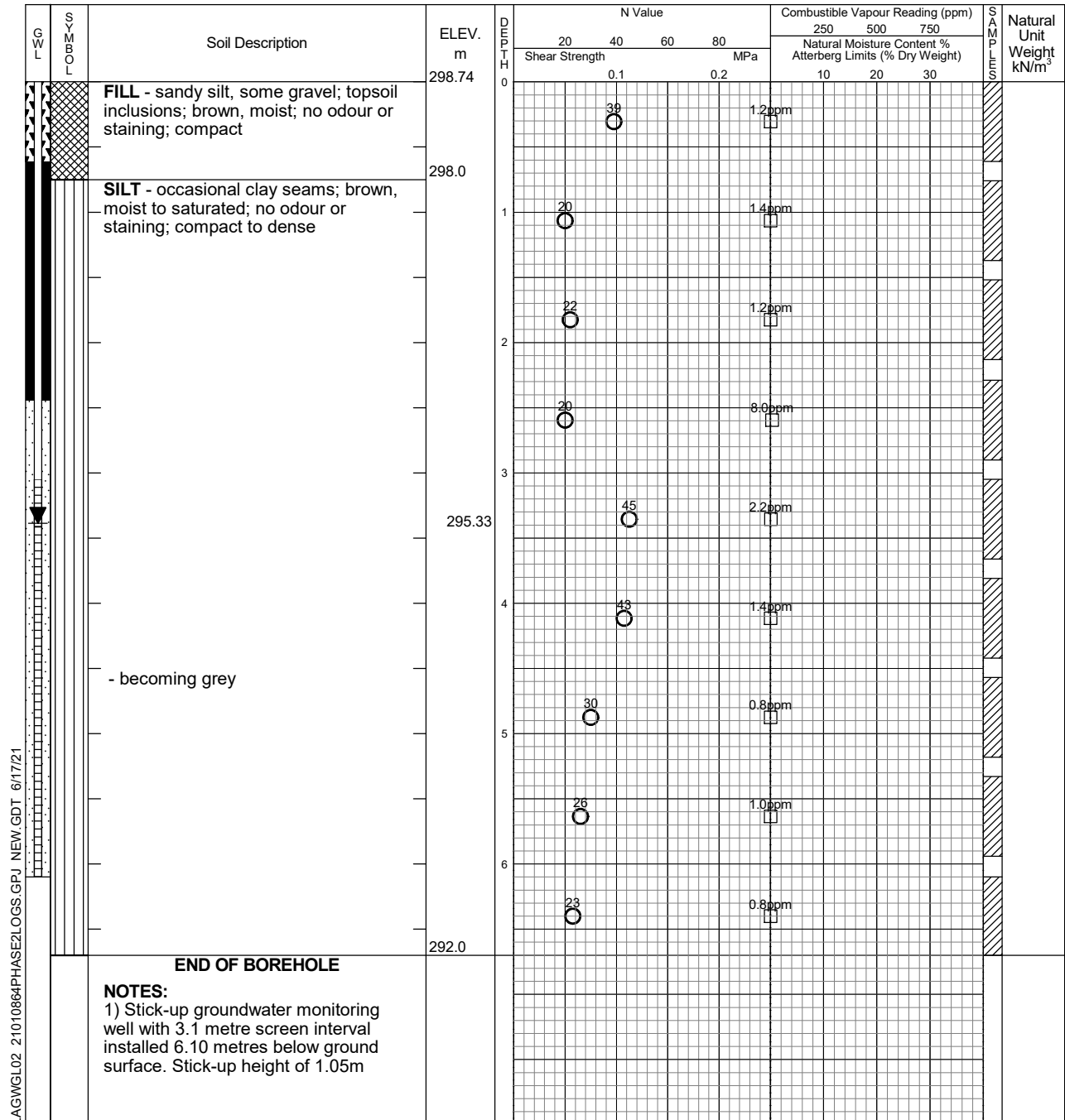
### Dynamic Cone Test

Undrained Triaxial at

Datum: Geodetic

Shelby Tube

% Strain at Fa



| Time          | Water Level (m) | Depth to Cave (m)<br>(Well) |
|---------------|-----------------|-----------------------------|
| On Completion | 5.49            |                             |
| June 7, 2021  | 3.18            |                             |
| June 8, 2021  | 3.41            |                             |

# Log of Borehole BH-107

Project No. BRM-21010864-BO

Drawing No. 8

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 2, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at % Strain at Failure



Field Vane Test



Penetrometer



| GWL | SYMBOL | Soil Description  | ELEV.<br>m | DEPTH<br>m | N Value               |     | Combustible Vapour Reading (ppm) |     |   | Natural<br>Unit<br>Weight<br>kN/m³ |
|-----|--------|---|------------|------------|-----------------------|-----|----------------------------------|-----|---|------------------------------------|
|     |        |   |            |            | Shear Strength<br>MPa | 250 | 500                              | 750 |   |                                    |
|     |        |   |            |            |                       |     |                                  |     | Natural Moisture Content %<br>Atterberg Limits (% Dry Weight) |                                    |
|     |        |   |            |            | 0.1                   | 0.2 | 10                               | 20  | 30  |                                    |
|     |        | <b>FILL</b> - silty sand; topsoil inclusions;<br>brown, moist; no odour or staining;<br>compact     | 297.63     | 0          | 16                    |     | 0.6ppm                           |     |   |                                    |
|     |        | sandy silt, some gravel; topsoil<br>inclusions; brown, very moist; no<br>odour or staining; compact | 296.9      | 1          | 26                    |     | 0.6ppm                           |     |   |                                    |
|     |        |   | 295.6      | 2          | 11                    |     | 0.8ppm                           |     |   |                                    |
|     |        | <b>SILT</b> - brown, saturated; no odour or<br>staining; loose                                      |            |            | 6                     |     | 0.8ppm                           |     |   |                                    |
|     |        |   | 294.6      | 3          |                       |     |                                  |     |   |                                    |
|     |        | <b>SANDY SILT TILL</b> - some gravel;<br>brown, saturated; no odour or staining;<br>dense           |            |            | 32                    |     | 0.6ppm                           |     |   |                                    |
|     |        | <b>END OF BOREHOLE</b>  | 294.0      |            |                       |     |                                  |     |   |                                    |

LAGWGL02 21010864PHASE2LOGS.GPJ NEW.GDT 6/17/21



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | 2.44            | 3.05              |

# Log of Borehole BH-108

Project No. BRM-21010864-BO

Drawing No. 9

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 15374 and 15450 Woodbine Avenue, Gormley, Ontario

Date Drilled: June 1, 2021

Auger Sample



Combustible Vapour Reading



Drill Type: Track Mounted CME-55

SPT (N) Value



Natural Moisture



Datum: Geodetic

Dynamic Cone Test



Plastic and Liquid Limit



Shelby Tube



Undrained Triaxial at



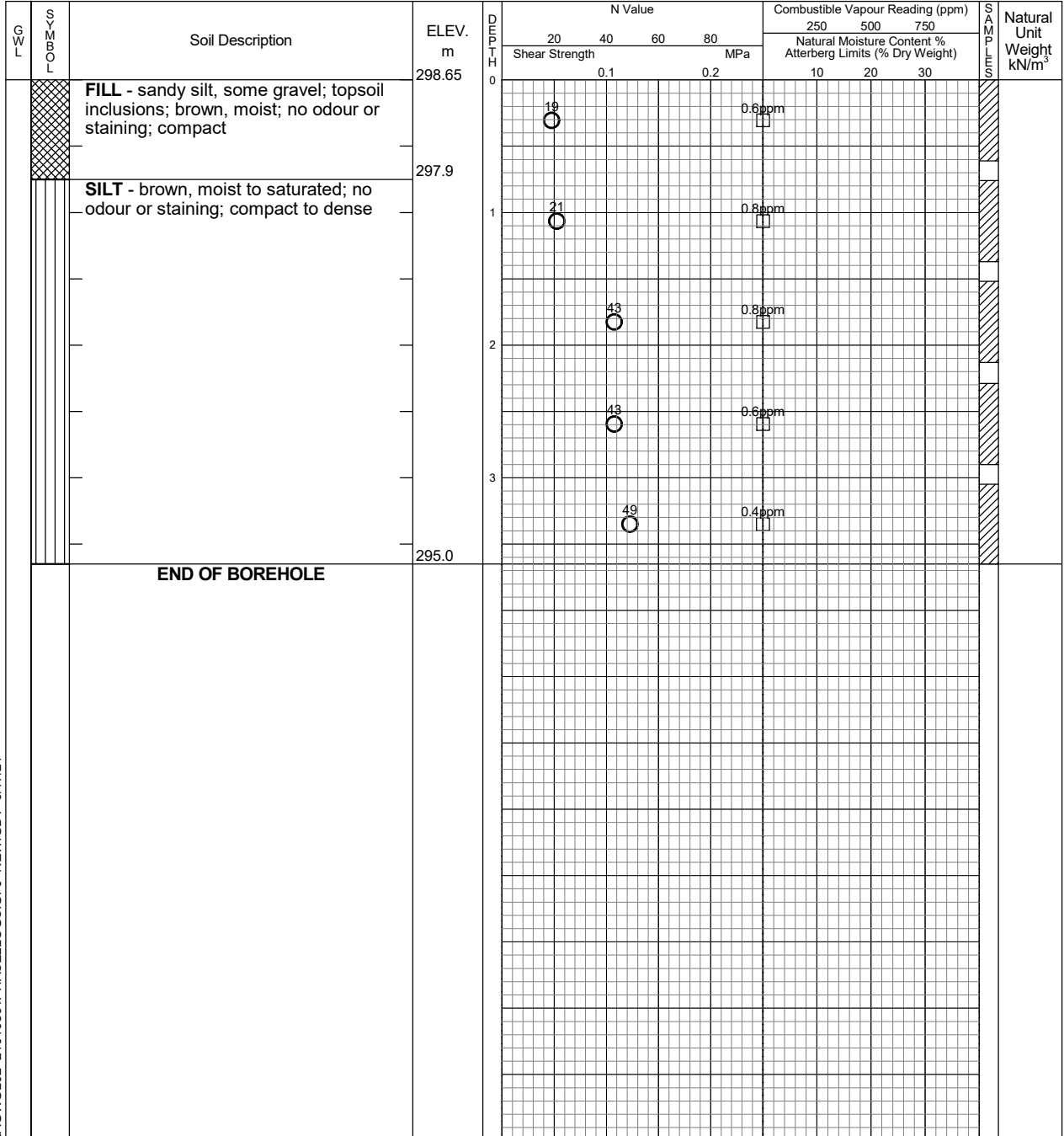
Field Vane Test



% Strain at Failure



Penetrometer



| Time          | Water Level (m) | Depth to Cave (m) |
|---------------|-----------------|-------------------|
| On Completion | Dry             | 3.05              |

Phase II Environmental Site Assessment  
15374 and 15450 Woodbine Avenue, Gormley, Ontario  
Project Number: BRM-21010864-B0  
June 17, 2021

## **Appendix C – Summary of Analytical Results**

Table C1 - Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylbenzene, Xylenes  
(BTEX) in Soil

| Parameter               | MECP Table 1<br>RPIICC<br><br>Criteria <sup>1</sup> | Units | RDL           | Sample ID   |   |  |   |   |   |
|-------------------------|---|-------|---------------|---|---|--|---|---|---|
|                         |   |       |               | BV Labs Job ID / Sample ID  |   |  |   |   |   |
|                         |   |       |               | Sample Collection Date  |   |  |   |   |   |
|                         |   |       |               | Sample Collection Time  |   |  |   |   |   |
|                         |   |       |               | BH-101 S54 (2.3-2.7M)<br>C1F3550 / PTI255<br>Jun 01, 2021<br>12:40 PM | BH-102 S55 (3.1-3.7M)<br>C1F3550 / PTI256<br>Jun 01, 2021<br>09:00 AM | BH-102 S55D (3.1-3.7M)<br>C1F3550 / PTI257<br>Jun 01, 2021<br>09:00 AM | BH-102 S56 (3.8-4.4M)<br>C1F3550 / PTI258<br>Jun 01, 2021<br>08:15 AM | BH-102 S57 (4.6-5.2M)<br>C1F3550 / PTI259<br>Jun 01, 2021<br>08:30 AM | BH-103 S56 (3.8-4.4M)<br>C1F3550 / PTI260<br>Jun 01, 2021<br>02:00 PM |
| Petroleum Hydrocarbons  |   |       |               |   |   |  |   |   |   |
| F1 (C6-C10)             | 25  | ug/g  | 10            | <10   | <10   | <10  | <10   | <10   | <10   |
| F1 (C6-C10) - BTEX      | 25  | ug/g  | 10            | <10   | <10   | <10  | <10   | <10   | <10   |
| F2 (C10-C16)            | 10  | ug/g  | 10            | <10   | <10   | <10  | <10   | <10   | <10   |
| F3 (C16-C34)            | 240   | ug/g  | 50            | <50   | 51  | <50  | 68  | 80  | <50   |
| F4 (C34-C50)            | 120   | ug/g  | 50            | <50   | <50   | <50  | <50   | <50   | <50   |
| Reached Baseline at C50 |   | ug/g  |               | YES   | YES   | YES  | YES   | YES   | YES   |
| F4G (Gravimetric)       |   | ug/g  |               | -   | -   | -  | -   | -   | -   |
| BTEX                    |   |       |               |   |   |  |   |   |   |
| Benzene                 | 0.02  | ug/g  | 0.020         | <0.020  | <0.020  | <0.020   | <0.020  | <0.020  | <0.020  |
| Toluene                 | 0.2   | ug/g  | 0.020         | <0.020  | <0.020  | <0.020   | <0.020  | <0.020  | <0.020  |
| Ethylbenzene            | 0.05  | ug/g  | 0.020         | <0.020  | <0.020  | <0.020   | <0.020  | <0.020  | <0.020  |
| m+p-Xylene              |   | ug/g  | 0.020 - 0.040 | <0.040  | <0.020  | <0.020   | <0.020  | <0.020  | <0.040  |
| o-Xylene                |   | ug/g  | 0.020         | <0.020  | <0.020  | <0.020   | <0.020  | <0.020  | <0.020  |
| Xylenes, Total          | 0.05  | ug/g  | 0.020 - 0.040 | <0.040  | <0.020  | <0.020   | <0.020  | <0.020  | <0.040  |

|                      |                       |
|----------------------|-----------------------|
| Legend               |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C1 - Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylbenzene, Xylenes  
(BTEX) in Soil

| Parameter               | MECP Table 1<br>RPIICC<br>Criteria <sup>1</sup> | Units | RDL           | Sample ID   |   |   |   |  |
|-------------------------|---|-------|---------------|---|---|---|---|--|
|                         |   |       |               | BV Labs Job ID / Sample ID  |   |   |   |  |
|                         |   |       |               | Sample Collection Date  |   |   |   |  |
|                         |   |       |               | Sample Collection Time  |   |   |   |  |
|                         |   |       |               | BH-104 SS4 (2.3-2.7M)<br>C1F3550 / PTI261<br>Jun 02, 2021<br>02:20 PM | BH-106 SS4 (0.8-1.4M)<br>C1F3550 / PTI264<br>Jun 02, 2021<br>11:20 AM | BH-107 SS3 (1.5-2.1M)<br>C1F3550 / PTI267<br>Jun 02, 2021<br>02:55 PM | BH-108 SS2 (0.8-1.4M)<br>C1F3550 / PTI268<br>Jun 02, 2021<br>03:15 PM | BH-16 SS3 (1.5-2.1M)<br>C1F3550 / PTI253<br>May 31, 2021 |
| Petroleum Hydrocarbons  |   |       |               |   |   |   |   |  |
| F1 (C6-C10)             | 25  | ug/g  | 10            | <10   | <10   | <10   | <10   | <10  |
| F1 (C6-C10) - BTEX      | 25  | ug/g  | 10            | <10   | <10   | <10   | <10   | <10  |
| F2 (C10-C16)            | 10  | ug/g  | 10            | <10   | <10   | <10   | <10   | <10  |
| F3 (C16-C34)            | 240   | ug/g  | 50            | <50   | <50   | <50   | <50   | 54   |
| F4 (C34-C50)            | 120   | ug/g  | 50            | <50   | <50   | <50   | <50   | <50  |
| Reached Baseline at C50 |   | ug/g  |               | YES   | YES   | YES   | YES   | YES  |
| F4G (Gravimetric)       |   | ug/g  |               | -   | -   | -   | -   | -  |
| BTEX                    |   |       |               |   |   |   |   |  |
| Benzene                 | 0.02  | ug/g  | 0.020         | <0.020  | <0.020  | <0.020  | <0.020  | <0.020   |
| Toluene                 | 0.2   | ug/g  | 0.020         | <0.020  | <0.020  | <0.020  | <0.020  | <0.020   |
| Ethylbenzene            | 0.05  | ug/g  | 0.020         | <0.020  | <0.020  | <0.020  | <0.020  | <0.020   |
| m+p-Xylene              |   | ug/g  | 0.020 - 0.040 | <0.040  | <0.040  | <0.040  | <0.040  | <0.040   |
| o-Xylene                |   | ug/g  | 0.020         | <0.020  | <0.020  | <0.020  | <0.020  | <0.020   |
| Xylenes, Total          | 0.05  | ug/g  | 0.020 - 0.040 | <0.040  | <0.040  | <0.040  | <0.040  | <0.040   |

|                      |                       |
|----------------------|-----------------------|
| Legend               |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C2 - Volatile Organic Compounds (VOCs) in Soil

| Parameter                            | MECP Table 1<br>RPIICC | Units | RDL           | Sample ID   |  |   |   |
|--------------------------------------|------------------------|-------|---------------|---|--|---|---|
|                                      |                        |       |               | BV Labs Job ID / Sample ID  |  |   |   |
|                                      |                        |       |               | Sample Collection Date  |  |   |   |
|                                      |                        |       |               | Sample Collection Time  |  |   |   |
|                                      |                        |       |               | BH-102 S55 (3.1-3.7M)<br>C1F3550 / PTI256<br>Jun 01, 2021<br>09:00 AM | BH-102 S55D (3.1-3.7M)<br>C1F3550 / PTI257<br>Jun 01, 2021<br>09:00 AM | BH-102 S56 (3.8-4.4M)<br>C1F3550 / PTI258<br>Jun 01, 2021<br>08:15 AM | BH-102 S57 (4.6-5.2M)<br>C1F3550 / PTI259<br>Jun 01, 2021<br>08:30 AM |
| Volatile Organic Compounds           |                        |       |               |   |  |   |   |
| Benzene                              | 0.02                   | ug/g  | 0.020         | <0.020  | <0.020   | <0.020  | <0.020  |
| Toluene                              | 0.2                    | ug/g  | 0.020         | <0.020  | <0.020   | <0.020  | <0.020  |
| Ethylbenzene                         | 0.05                   | ug/g  | 0.020         | <0.020  | <0.020   | <0.020  | <0.020  |
| m+p-Xylene                           |                        | ug/g  | 0.020 - 0.040 | <0.020  | <0.020   | <0.020  | <0.020  |
| o-Xylene                             |                        | ug/g  | 0.020         | <0.020  | <0.020   | <0.020  | <0.020  |
| Xylenes, Total                       | 0.05                   | ug/g  | 0.020 - 0.040 | <0.020  | <0.020   | <0.020  | <0.020  |
| Acetone                              | 0.5                    | ug/g  | 0.50          | <0.50   | <0.50  | <0.50   | <0.50   |
| Bromodichloromethane                 | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Bromoform                            | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Bromomethane                         | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Carbon Tetrachloride                 | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Chlorobenzene                        | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Chloroform                           | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Dibromochloromethane                 | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,2-Dichlorobenzene                  | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,3-Dichlorobenzene                  | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,4-Dichlorobenzene                  | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Dichlorodifluoromethane              | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1-Dichloroethane                   | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,2-Dichloroethane                   | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1-Dichloroethylene                 | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| cis-1,2-Dichloroethylene             | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| trans-1,2-Dichloroethylene           | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,2-Dichloropropane                  | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| cis-1,3-Dichloropropene              | 0.05                   | ug/g  | 0.030         | <0.030  | <0.030   | <0.030  | <0.030  |
| trans-1,3-Dichloropropene            | 0.05                   | ug/g  | 0.040         | <0.040  | <0.040   | <0.040  | <0.040  |
| 1,3-Dichloropropene (cis+trans)      | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Ethylene Dibromide                   | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Hexane (n-Hexane)                    | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Methyl Ethyl Ketone (MEK)            | 0.5                    | ug/g  | 0.50          | <0.50   | <0.50  | <0.50   | <0.50   |
| Methyl Isobutyl Ketone (MIBK)        | 0.5                    | ug/g  | 0.50          | <0.50   | <0.50  | <0.50   | <0.50   |
| Methyl tert-butyl ether (MTBE)       | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Methylene Chloride (Dichloromethane) | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Styrene                              | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1,1,2-Tetrachloroethane            | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1,2,2-Tetrachloroethane            | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Tetrachloroethylene                  | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1,1-Trichloroethane                | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| 1,1,2-Trichloroethane                | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Trichloroethylene                    | 0.05                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Trichlorofluoromethane               | 0.25                   | ug/g  | 0.050         | <0.050  | <0.050   | <0.050  | <0.050  |
| Vinyl Chloride                       | 0.02                   | ug/g  | 0.020         | <0.020  | <0.020   | <0.020  | <0.020  |
| 1,4-Dioxane                          |                        |       |               |   |  |   |   |
| 1,4-Dioxane                          |                        | ug/g  |               | -   | -  | -   | -   |

|                      |                       |
|----------------------|-----------------------|
| <b>Legend</b>        |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |



Table C3 - Organochlorine Pesticides (OCs) and Polychlorinated Biphenyls (PCBs) in Soil

| Parameter                              | MECP Table 1<br>RPIICC<br><br>Criteria <sup>1</sup> | Units | RDL           | Sample ID   |   |  |  |  |  |
|--|---|-------|---------------|---|---|--|--|--|--|
|  |   |       |               | BV Labs Job ID / Sample ID  |   |  |  |  |  |
|  |   |       |               | Sample Collection Date  |   |  |  |  |  |
|  |   |       |               | Sample Collection Time  |   |  |  |  |  |
|  |   |       |               | BH-105 SS1 (0.0-0.6M)<br>C1F3550 / PTI262<br>Jun 02, 2021<br>08:30 AM | BH-107 SS2 (0.8-1.4M)<br>C1F3550 / PTI265<br>Jun 02, 2021<br>02:45 PM | BH-107 SS2D (0.8-1.4M)<br>C1F3550 / PTI266<br>Jun 02, 2021<br>02:45 PM | BH-12 SS2 (0.8-1.4M)<br>C1F3550 / PTI241<br>May 27, 2021 | BH-14 SS2 (0.8-1.4M)<br>C1F3550 / PTI243<br>May 26, 2021 | BH-16 SS2 (0.8-1.4M)<br>C1F3550 / PTI252<br>May 31, 2021 |
| Polychlorinated Biphenyls (PCBs)       |   |       |               |   |   |  |  |  |  |
| Aroclor 1242                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.010  | <0.010   | <0.015   | <0.015   | <0.010   |
| Aroclor 1248                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.010  | <0.010   | <0.015   | <0.015   | <0.010   |
| Aroclor 1254                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.010  | <0.010   | <0.015   | <0.015   | <0.010   |
| Aroclor 1260                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.010  | <0.010   | <0.015   | <0.015   | <0.010   |
| Total Polychlorinated Biphenyls (PCBs) | 0.3   | ug/g  | 0.010 - 0.015 | <0.015  | <0.010  | <0.010   | <0.015   | <0.015   | <0.010   |
| Organochlorine Pesticides (OCs)        |   |       |               |   |   |  |  |  |  |
| Aldrin                                 | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| alpha-Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| gamma-Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Total Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| o,p-DDD                                | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| p,p-DDD                                | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Total DDD                              |   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| o,p-DDE                                | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| p,p-DDE                                | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Total DDE                              |   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| o,p-DDT                                | 1.4   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| p,p-DDT                                | 1.4   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Total DDT                              |   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Dieldrin                               | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Endosulfan I                           | 0.04  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Endosulfan II (beta)                   | 0.04  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Total Endosulfan                       |   | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Endrin                                 | 0.04  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Heptachlor                             | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Heptachlor epoxide                     | 0.05  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Hexachlorobenzene                      | 0.01  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Hexachlorobutadiene                    | 0.01  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| gamma-Hexachlorocyclohexane (Lindane)  | 0.01  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Hexachloroethane                       | 0.01  | ug/g  | 0.0020        | <0.0020   | -   | -  | <0.0020  | <0.0020  | -  |
| Methoxychlor                           | 0.05  | ug/g  | 0.0050        | <0.0050   | -   | -  | <0.0050  | <0.0050  | -  |

|                      |                       |
|----------------------|-----------------------|
| <b>Legend</b>        |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C3 - Organochlorine Pesticides (OCs) and Polychlorinated Biphenyls (PCBs) in Soil

| Parameter                              | MECP Table 1<br>RPIICC<br><br>Criteria <sup>1</sup> | Units | RDL           | Sample ID   |  |   |
|--|---|-------|---------------|---|--|---|
|  |   |       |               | BV Labs Job ID / Sample ID                              |  |   |
|  |   |       |               | Sample Collection Date                                  |  |   |
|  |   |       |               | Sample Collection Time                                  |  |   |
|  |   |       |               | BH-4 SS1 (0.0-0.6M)<br>C1F3550 / PTI235<br>May 28, 2021 | BH-4 SS1D (0.0-0.6M)<br>C1F3550 / PTI236<br>May 28, 2021 | BH-7 SS1 (0.0-0.6M)<br>C1F3550 / PTI239<br>May 28, 2021 |
| Polychlorinated Biphenyls (PCBs)       |   |       |               |   |  |   |
| Aroclor 1242                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.015   | <0.015  |
| Aroclor 1248                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.015   | <0.015  |
| Aroclor 1254                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.015   | <0.015  |
| Aroclor 1260                           |   | ug/g  | 0.010 - 0.015 | <0.015  | <0.015   | <0.015  |
| Total Polychlorinated Biphenyls (PCBs) | 0.3   | ug/g  | 0.010 - 0.015 | <0.015  | <0.015   | <0.015  |
| Organochlorine Pesticides (OCs)        |   |       |               |   |  |   |
| Aldrin                                 | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| alpha-Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| gamma-Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Total Chlordane                        | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| o,p-DDD                                | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| p,p-DDD                                | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Total DDD                              |   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| o,p-DDE                                | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| p,p-DDE                                | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Total DDE                              |   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| o,p-DDT                                | 1.4   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| p,p-DDT                                | 1.4   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Total DDT                              |   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Dieldrin                               | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Endosulfan I                           | 0.04  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Endosulfan II (beta)                   | 0.04  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Total Endosulfan                       |   | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Endrin                                 | 0.04  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Heptachlor                             | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Heptachlor epoxide                     | 0.05  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Hexachlorobenzene                      | 0.01  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Hexachlorobutadiene                    | 0.01  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| gamma-Hexachlorocyclohexane (Lindane)  | 0.01  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Hexachloroethane                       | 0.01  | ug/g  | 0.0020        | <0.0020   | <0.0020  | <0.0020   |
| Methoxychlor                           | 0.05  | ug/g  | 0.0050        | <0.0050   | <0.0050  | <0.0050   |

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| <b>Legend</b>        |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C4 - Metals and Inorganics in Soil

| Parameter                                 | MECP Table 1<br>RPIICC<br><br>Criteria <sup>1</sup> | Units | RDL   | Sample ID   |   |  |  |  |   |   |  |
|---|---|-------|-------|---|---|--|--|--|---|---|--|
|   |   |       |       | BV Labs Job ID / Sample ID  |   |  |  |  |   |   |  |
|   |   |       |       | Sample Collection Date  |   |  |  |  |   |   |  |
|   |   |       |       | Sample Collection Time  |   |  |  |  |   |   |  |
|   |   |       |       | BH-101 SS1 (0.0-0.6M)<br>C1F3550 / PTI254<br>Jun 01, 2021<br>12:15 PM | BH-105 SS2 (0.8-1.4M)<br>C1F3550 / PTI263<br>Jun 02, 2021<br>08:40 AM | BH-105 SS2 (0.8-1.4M) Lab-Dunn<br>C1F3550 / PTI263<br>Jun 02, 2021<br>08:40 AM | BH-12 SS3 (1.5-2.1M)<br>C1F3550 / PTI242<br>May 27, 2021 | BH-14 SS3 (1.5-2.1M)<br>C1F3550 / PTI251<br>May 26, 2021 | BH-3 SS3 (1.5-2.1M)<br>C1F3550 / PTI234<br>May 27, 2021 | BH-4 SS3 (1.5-2.1M)<br>C1F3550 / PTI237<br>May 28, 2021 | BH-4 SS3D (1.5-2.1M)<br>C1F3550 / PTI238<br>May 28, 2021 |
| Metals (including Hydride-Forming Metals) |   |       |       |   |   |  |  |  |   |   |  |
| Acid Extractable Antimony (Sb)            | 1.3   | ug/g  | 0.20  | <0.20   | <0.20   | -  | <0.20  | <0.20  | <0.20   | <0.20   | <0.20  |
| Acid Extractable Arsenic (As)             | 18  | ug/g  | 1.0   | 1.4   | 1.7   | -  | 1  | 1.3  | <1.0  | 1.6   | 1.9  |
| Acid Extractable Barium (Ba)              | 220   | ug/g  | 0.50  | 42  | 48  | -  | 30   | 29   | 15  | 46  | 50   |
| Acid Extractable Beryllium (Be)           | 2.5   | ug/g  | 0.20  | 0.25  | 0.37  | -  | 0.26   | 0.25   | <0.20   | 0.36  | 0.4  |
| Acid Extractable Boron (B)                | 36  | ug/g  | 5.0   | 5.6   | 5.2   | -  | <5.0   | <5.0   | <5.0  | <5.0  | <5.0   |
| Acid Extractable Cadmium (Cd)             | 1.2   | ug/g  | 0.10  | 0.16  | 0.14  | -  | <0.10  | 0.17   | <0.10   | <0.10   | 0.14   |
| Acid Extractable Chromium (Cr)            | 70  | ug/g  | 1.0   | 10  | 17  | -  | 9.8  | 10   | 7.5   | 16  | 19   |
| Acid Extractable Cobalt (Co)              | 21  | ug/g  | 0.10  | 3.2   | 4.6   | -  | 3.1  | 2.9  | 2.4   | 4.1   | 4.8  |
| Acid Extractable Copper (Cu)              | 92  | ug/g  | 0.50  | 9   | 9   | -  | 5.7  | 4.3  | 3.5   | 7.7   | 9.1  |
| Acid Extractable Lead (Pb)                | 120   | ug/g  | 1.0   | 21  | 7.8   | -  | 4.8  | 6.2  | 2.2   | 7.7   | 8  |
| Acid Extractable Molybdenum (Mo)          | 2   | ug/g  | 0.50  | <0.50   | <0.50   | -  | <0.50  | <0.50  | <0.50   | <0.50   | <0.50  |
| Acid Extractable Nickel (Ni)              | 82  | ug/g  | 0.50  | 6.3   | 9.2   | -  | 6  | 5.5  | 4.7   | 7.9   | 9.6  |
| Acid Extractable Selenium (Se)            | 1.5   | ug/g  | 0.50  | <0.50   | <0.50   | -  | <0.50  | <0.50  | <0.50   | <0.50   | <0.50  |
| Acid Extractable Silver (Ag)              | 0.5   | ug/g  | 0.20  | <0.20   | <0.20   | -  | <0.20  | <0.20  | <0.20   | <0.20   | <0.20  |
| Acid Extractable Thallium (Tl)            | 1   | ug/g  | 0.050 | 0.062   | 0.089   | -  | 0.055  | 0.055  | <0.050  | 0.075   | 0.086  |
| Acid Extractable Uranium (U)              | 2.5   | ug/g  | 0.050 | 0.37  | 0.49  | -  | 0.42   | 0.41   | 0.42  | 0.46  | 0.52   |
| Acid Extractable Vanadium (V)             | 86  | ug/g  | 5.0   | 19  | 25  | -  | 20   | 21   | 17  | 24  | 26   |
| Acid Extractable Zinc (Zn)                | 290   | ug/g  | 5.0   | 40  | 31  | -  | 15   | 24   | 9.9   | 30  | 35   |
| Other Regulated Parameters                |   |       |       |   |   |  |  |  |   |   |  |
| Hot Water Extractable Boron               |   | ug/g  | 0.050 | 0.92  | 0.51  | -  | 0.056  | 0.44   | <0.050  | 0.51  | 0.52   |
| Soluble (20:1) Chloride (Cl-)             |   | ug/g  |       | -   | -   | -  | -  | -  | -   | -   | -  |
| WAD Cyanide (Free)                        | 0.051   | ug/g  | 0.01  | <0.01   | <0.01   | -  | <0.01  | <0.01  | <0.01   | <0.01   | <0.01  |
| Electrical Conductivity                   | 0.57  | mS/cm | 0.002 | 0.25  | 0.24  | -  | 0.12   | 0.26   | 0.12  | 0.28  | 0.29   |
| Hexavalent Chromium (CrVI)                | 0.66  | ug/g  | 0.18  | <0.18   | <0.18   | <0.18  | <0.18  | <0.18  | <0.18   | <0.18   | <0.18  |
| Acid Extractable Mercury (Hg)             | 0.27  | ug/g  | 0.050 | 0.061   | <0.050  | -  | <0.050   | <0.050   | <0.050  | <0.050  | 0.051  |
| Available (CaCl2) pH                      |   | pH    |       | 7.64  | 7.08  | -  | 7.67   | 7.21   | 7.79  | 7.27  | 7.31   |
| Sodium Adsorption Ratio                   | 2.4   | N/A   |       | 0.21  | 0.26  | -  | 0.3  | 0.21   | 0.31  | 0.29  | 0.29   |
| Fraction of Organic Carbon                |   | g/g   |       | -   | -   | -  | -  | -  | -   | -   | -  |
| Fraction of Organic Carbon (rep.#1)       |   | g/g   |       | -   | -   | -  | -  | -  | -   | -   | -  |
| Fraction of Organic Carbon (rep.#2)       |   | g/g   |       | -   | -   | -  | -  | -  | -   | -   | -  |
| Average FOC Result                        |   | g/g   |       | -   | -   | -  | -  | -  | -   | -   | -  |

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| <b>Legend</b>        |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C4 - Metals and Inorganics in Soil

| Parameter  | MECP Table 1<br>RPHCC<br>Criteria <sup>1</sup> | Units | RDL   | Sample ID  |  |
|--|--|-------|-------|--|--|
|  |  |       |       | BV Labs Job ID / Sample ID   |  |
|  |  |       |       | Sample Collection Date   |  |
|  |  |       |       | Sample Collection Time   |  |
|  |  |       |       | BH-4 SSSD (1.5-2.1M) Lab<br>Dunn<br>C1F3550 / PT1238<br>May 28, 2021 | BH-7 SSS (3.1-3.7)<br>C1F3550 / PT1240<br>May 28, 2021 |
| <b>Metals (including Hydride-Forming Metals)</b> |  |       |       |  |  |
| Acid Extractable Antimony (Sb)                   | 1.3  | ug/g  | 0.20  | <0.20  | <0.20  |
| Acid Extractable Arsenic (As)                    | 18   | ug/g  | 1.0   | 1.8  | 3  |
| Acid Extractable Barium (Ba)                     | 220  | ug/g  | 0.50  | 50   | 90   |
| Acid Extractable Beryllium (Be)                  | 2.5  | ug/g  | 0.20  | 0.38   | 0.64   |
| Acid Extractable Boron (B)                       | 36   | ug/g  | 5.0   | <5.0   | 8.3  |
| Acid Extractable Cadmium (Cd)                    | 1.2  | ug/g  | 0.10  | 0.14   | 0.28   |
| Acid Extractable Chromium (Cr)                   | 70   | ug/g  | 1.0   | 18   | 21   |
| Acid Extractable Cobalt (Co)                     | 21   | ug/g  | 0.10  | 4.9  | 7.2  |
| Acid Extractable Copper (Cu)                     | 92   | ug/g  | 0.50  | 8.8  | 16   |
| Acid Extractable Lead (Pb)                       | 120  | ug/g  | 1.0   | 7.8  | 54   |
| Acid Extractable Molybdenum (Mo)                 | 2  | ug/g  | 0.50  | <0.50  | <0.50  |
| Acid Extractable Nickel (Ni)                     | 82   | ug/g  | 0.50  | 9.7  | 15   |
| Acid Extractable Selenium (Se)                   | 1.5  | ug/g  | 0.50  | <0.50  | <0.50  |
| Acid Extractable Silver (Ag)                     | 0.5  | ug/g  | 0.20  | <0.20  | <0.20  |
| Acid Extractable Thallium (Tl)                   | 1  | ug/g  | 0.050 | 0.085  | 0.13   |
| Acid Extractable Uranium (U)                     | 2.5  | ug/g  | 0.050 | 0.5  | 0.5  |
| Acid Extractable Vanadium (V)                    | 86   | ug/g  | 5.0   | 27   | 32   |
| Acid Extractable Zinc (Zn)                       | 290  | ug/g  | 5.0   | 35   | 68   |
| <b>Other Regulated Parameters</b>                |  |       |       |  |  |
| Hot Water Extractable Boron                      |  | ug/g  | 0.050 | -  | 0.82   |
| Soluble (20:1) Chloride (Cl <sup>-</sup> )       |  | ug/g  |       | -  | -  |
| WAD Cyanide (Free)                               | 0.051  | ug/g  | 0.01  | -  | <0.01  |
| Electrical Conductivity                          | 0.57   | mS/cm | 0.002 | -  | 0.27   |
| Hexavalent Chromium (CrVI)                       | 0.66   | ug/g  | 0.18  | -  | <0.18  |
| Acid Extractable Mercury (Hg)                    | 0.27   | ug/g  | 0.050 | <0.050   | 0.13   |
| Available (CaCl2) pH                             |  | pH    |       | -  | 7.2  |
| Sodium Adsorption Ratio                          | 2.4  | N/A   |       | -  | 0.5  |
| Fraction of Organic Carbon                       |  | g/g   |       | -  | -  |
| Fraction of Organic Carbon (rep.#1)              |  | g/g   |       | -  | -  |
| Fraction of Organic Carbon (rep.#2)              |  | g/g   |       | -  | -  |
| Average FOC Result                               |  | g/g   |       | -  | -  |

ICPMS

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| <b>Legend</b>        |                       |
| To Be Announced      | TBA                   |
| Exceeds one Criteria | Result                |
| DL > Criteria        | Result                |
| Criteria 1           | Reg153/04 T1-Soil/Res |

Table C5 - Petroleum Hydrocarbons (PHCs) and Volatile Organic Compounds (VOCs) in Water

| Parameter                            | MECP Table 1<br>RPIICC<br><br>Criteria <sup>1</sup> | Units | RDL         | Sample ID   |  |   |   |
|--------------------------------------|---|-------|-------------|---|--|---|---|
|                                      |   |       |             | BV Labs Job ID / Sample ID                              |  |   |   |
|                                      |   |       |             | Sample Collection Date                                  |  |   |   |
|                                      |   |       |             | Sample Collection Time                                  |  |   |   |
|                                      |   |       |             | TRIP BLANK LOT#3699<br>C1F6446 / PTX975<br>Jun 08, 2021 | MW-102<br>C1F6446 / PTX971<br>Jun 08, 2021<br>09:23 AM | MW-102D<br>C1F6446 / PTX972<br>Jun 08, 2021<br>09:23 AM | MW-102D Lab-Dup<br>C1F6446 / PTX972<br>Jun 08, 2021<br>09:23 AM |
| Petroleum Hydrocarbons (PHCs)        |   |       |             |   |  |   |   |
| F1 (C6-C10)                          | 420   | ug/L  | 25          | -   | 53   | 46  | 38  |
| F1 (C6-C10) - BTEX                   | 420   | ug/L  | 25          | -   | 49   | 43  | 35  |
| F2 (C10-C16)                         | 150   | ug/L  | 100         | -   | <100   | <100  | <100  |
| F3 (C16-C34)                         | 500   | ug/L  | 200         | -   | <200   | <200  | <200  |
| F4 (C34-C50)                         | 500   | ug/L  | 200         | -   | <200   | <200  | <200  |
| Reached Baseline at C50              |   | ug/L  |             | -   | YES  | YES   | YES   |
| F4G (Gravimetric)                    |   | ug/L  |             | -   | -  | -   | -   |
| Volatile Organic Compounds (VOCs)    |   |       |             |   |  |   |   |
| Benzene                              | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| Toluene                              | 0.8   | ug/L  | 0.20        | <0.20   | 0.42   | 0.4   | 0.33  |
| Ethylbenzene                         | 0.5   | ug/L  | 0.20        | <0.20   | 0.39   | 0.39  | 0.34  |
| m+p-Xylene                           |   | ug/L  | 0.20 - 0.40 | <0.20   | 0.56   | 0.53  | 0.47  |
| o-Xylene                             |   | ug/L  | 0.20        | <0.20   | 2.9  | 2.6   | 2.3   |
| Xylenes, Total                       | 72  | ug/L  | 0.20 - 0.40 | <0.20   | 3.5  | 3.2   | 2.8   |
| Acetone                              | 2700  | ug/L  | 10          | <10   | 15   | 13  | 13  |
| Bromodichloromethane                 | 2   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| Bromoform                            | 5   | ug/L  | 1.0         | <1.0  | <1.0   | <1.0  | <1.0  |
| Bromomethane                         | 0.89  | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| Carbon Tetrachloride                 | 0.2   | ug/L  | 0.19 - 0.20 | <0.19   | <0.20  | <0.20   | <0.20   |
| Chlorobenzene                        | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| Chloroform                           | 2   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| Dibromochloromethane                 | 2   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| 1,2-Dichlorobenzene                  | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| 1,3-Dichlorobenzene                  | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| 1,4-Dichlorobenzene                  | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| Dichlorodifluoromethane              | 590   | ug/L  | 1.0         | <1.0  | <1.0   | <1.0  | <1.0  |
| 1,1-Dichloroethane                   | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| 1,2-Dichloroethane                   | 0.5   | ug/L  | 0.49 - 0.50 | <0.49   | <0.50  | <0.50   | <0.50   |
| 1,1-Dichloroethylene                 | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| cis-1,2-Dichloroethylene             | 1.6   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| trans-1,2-Dichloroethylene           | 1.6   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| 1,2-Dichloropropane                  | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| cis-1,3-Dichloropropene              | 0.5   | ug/L  | 0.30        | <0.30   | <0.30  | <0.30   | <0.30   |
| trans-1,3-Dichloropropene            | 0.5   | ug/L  | 0.40        | <0.40   | <0.40  | <0.40   | <0.40   |
| 1,3-Dichloropropene (cis+trans)      | 0.5   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | -   |
| Ethylene Dibromide                   | 0.2   | ug/L  | 0.19 - 0.20 | <0.19   | <0.20  | <0.20   | <0.20   |
| Hexane                               | 5   | ug/L  | 1.0         | <1.0  | <1.0   | <1.0  | <1.0  |
| Methyl Ethyl Ketone (MEK)            | 400   | ug/L  | 10          | <10   | <10  | <10   | <10   |
| Methyl Isobutyl Ketone (MIBK)        | 640   | ug/L  | 5.0         | <5.0  | <5.0   | <5.0  | <5.0  |
| Methyl tert-butyl ether (MTBE)       | 15  | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| Methylene Chloride (Dichloromethane) | 5   | ug/L  | 2.0         | <2.0  | <2.0   | <2.0  | <2.0  |
| Styrene                              | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| 1,1,1,2-Tetrachloroethane            | 1.1   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| 1,1,2,2-Tetrachloroethane            | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| Tetrachloroethylene                  | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| 1,1,1-Trichloroethane                | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| 1,1,2-Trichloroethane                | 0.5   | ug/L  | 0.40 - 0.50 | <0.40   | <0.50  | <0.50   | <0.50   |
| Trichloroethylene                    | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| Trichlorofluoromethane               | 150   | ug/L  | 0.50        | <0.50   | <0.50  | <0.50   | <0.50   |
| Vinyl Chloride                       | 0.5   | ug/L  | 0.20        | <0.20   | <0.20  | <0.20   | <0.20   |
| 1,4-Dioxane                          |   |       |             |   |  |   |   |
| 1,4-Dioxane                          |   | ug/L  |             | -   | -  | -   | -   |

|                      |                 |
|----------------------|-----------------|
| <b>Legend</b>        |                 |
| To Be Announced      | TBA             |
| Exceeds one Criteria | Result          |
| DL > Criteria        | Result          |
| Criteria 1           | Reg153/04 T1-GW |

Table C5 - Petroleum Hydrocarbons (PHCs) and Volatile Organic Compounds (VOCs) in Water

| Parameter                            | MECP Table 1<br>RPHCC<br><br>Criteria <sup>1</sup> | Units | RDL         | Sample ID  |  |
|--------------------------------------|--|-------|-------------|--|--|
|                                      |  |       |             | BV Labs Job ID / Sample ID                             |  |
|                                      |  |       |             | Sample Collection Date                                 |  |
|                                      |  |       |             | Sample Collection Time                                 |  |
|                                      |  |       |             | MW-103<br>C1F6446 / PTX973<br>Jun 08, 2021<br>09:35 AM | MW-106<br>C1F6446 / PTX974<br>Jun 08, 2021<br>10:05 AM |
| Petroleum Hydrocarbons (PHCs)        |  |       |             |  |  |
| F1 (C6-C10)                          | 420  | ug/L  | 25          | <25  | <25  |
| F1 (C6-C10) - BTEX                   | 420  | ug/L  | 25          | <25  | <25  |
| F2 (C10-C16)                         | 150  | ug/L  | 100         | <100   | <100   |
| F3 (C16-C34)                         | 500  | ug/L  | 200         | <200   | <200   |
| F4 (C34-C50)                         | 500  | ug/L  | 200         | <200   | <200   |
| Reached Baseline at C50              |  | ug/L  |             | YES  | YES  |
| F4G (Gravimetric)                    |  | ug/L  |             | -  | -  |
| Volatile Organic Compounds (VOCs)    |  |       |             |  |  |
| Benzene                              | 0.5  | ug/L  | 0.20        | <0.20  | <0.20  |
| Toluene                              | 0.8  | ug/L  | 0.20        | <0.20  | <0.20  |
| Ethylbenzene                         | 0.5  | ug/L  | 0.20        | <0.20  | <0.20  |
| m+p-Xylene                           |  | ug/L  | 0.20 - 0.40 | <0.40  | <0.40  |
| o-Xylene                             |  | ug/L  | 0.20        | <0.20  | <0.20  |
| Xylenes, Total                       | 72   | ug/L  | 0.20 - 0.40 | <0.40  | <0.40  |
| Acetone                              | 2700   | ug/L  | 10          | -  | -  |
| Bromodichloromethane                 | 2  | ug/L  | 0.50        | -  | -  |
| Bromoform                            | 5  | ug/L  | 1.0         | -  | -  |
| Bromomethane                         | 0.89   | ug/L  | 0.50        | -  | -  |
| Carbon Tetrachloride                 | 0.2  | ug/L  | 0.19 - 0.20 | -  | -  |
| Chlorobenzene                        | 0.5  | ug/L  | 0.20        | -  | -  |
| Chloroform                           | 2  | ug/L  | 0.20        | -  | -  |
| Dibromochloromethane                 | 2  | ug/L  | 0.50        | -  | -  |
| 1,2-Dichlorobenzene                  | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| 1,3-Dichlorobenzene                  | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| 1,4-Dichlorobenzene                  | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| Dichlorodifluoromethane              | 590  | ug/L  | 1.0         | -  | -  |
| 1,1-Dichloroethane                   | 0.5  | ug/L  | 0.20        | -  | -  |
| 1,2-Dichloroethane                   | 0.5  | ug/L  | 0.49 - 0.50 | -  | -  |
| 1,1-Dichloroethylene                 | 0.5  | ug/L  | 0.20        | -  | -  |
| cis-1,2-Dichloroethylene             | 1.6  | ug/L  | 0.50        | -  | -  |
| trans-1,2-Dichloroethylene           | 1.6  | ug/L  | 0.50        | -  | -  |
| 1,2-Dichloropropane                  | 0.5  | ug/L  | 0.20        | -  | -  |
| cis-1,3-Dichloropropene              | 0.5  | ug/L  | 0.30        | -  | -  |
| trans-1,3-Dichloropropene            | 0.5  | ug/L  | 0.40        | -  | -  |
| 1,3-Dichloropropene (cis+trans)      | 0.5  | ug/L  | 0.50        | -  | -  |
| Ethylene Dibromide                   | 0.2  | ug/L  | 0.19 - 0.20 | -  | -  |
| Hexane                               | 5  | ug/L  | 1.0         | -  | -  |
| Methyl Ethyl Ketone (MEK)            | 400  | ug/L  | 10          | -  | -  |
| Methyl Isobutyl Ketone (MIBK)        | 640  | ug/L  | 5.0         | -  | -  |
| Methyl tert-butyl ether (MTBE)       | 15   | ug/L  | 0.50        | -  | -  |
| Methylene Chloride (Dichloromethane) | 5  | ug/L  | 2.0         | -  | -  |
| Styrene                              | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| 1,1,1,2-Tetrachloroethane            | 1.1  | ug/L  | 0.50        | -  | -  |
| 1,1,2,2-Tetrachloroethane            | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| Tetrachloroethylene                  | 0.5  | ug/L  | 0.20        | -  | -  |
| 1,1,1-Trichloroethane                | 0.5  | ug/L  | 0.20        | -  | -  |
| 1,1,2-Trichloroethane                | 0.5  | ug/L  | 0.40 - 0.50 | -  | -  |
| Trichloroethylene                    | 0.5  | ug/L  | 0.20        | -  | -  |
| Trichlorofluoromethane               | 150  | ug/L  | 0.50        | -  | -  |
| Vinyl Chloride                       | 0.5  | ug/L  | 0.20        | -  | -  |
| 1,4-Dioxane                          |  |       |             |  |  |
| 1,4-Dioxane                          |  | ug/L  |             | -  | -  |

|                      |                 |
|----------------------|-----------------|
| <b>Legend</b>        |                 |
| To Be Announced      | TBA             |
| Exceeds one Criteria | Result          |
| DL > Criteria        | Result          |
| Criteria 1           | Reg153/04 T1-GW |

Phase II Environmental Site Assessment  
15374 and 15450 Woodbine Avenue, Gormley, Ontario  
Project Number: BRM-21010864-B0  
June 17, 2021

## **Appendix D – Certificates of Analysis**



Your P.O. #: MRK-GEO  
Your Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY

**Attention: Aleksandar Saric**

exp Services Inc  
Markham Branch  
220 Commerce Valley Dr W  
Suite 500  
Markham, ON  
CANADA L3T 0A8

Your C.O.C. #: 792128-83-01, 792128-121-01, 792128-163-01

**Report Date: 2021/06/11**  
Report #: R6672190  
Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1F3550**

**Received: 2021/06/04, 15:30**

Sample Matrix: Soil  
# Samples Received: 28

| <b>Analyses</b>                             | <b>Quantity</b> | <b>Date<br/>Extracted</b> | <b>Date<br/>Analyzed</b> | <b>Laboratory Method</b> | <b>Analytical Method</b> |
|---|-----------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Hot Water Extractable Boron                 | 8               | 2021/06/08                | 2021/06/08               | CAM SOP-00408            | R153 Ana. Prot. 2011     |
| 1,3-Dichloropropene Sum                     | 4               | N/A                       | 2021/06/11               |                          | EPA 8260C m              |
| Free (WAD) Cyanide                          | 8               | 2021/06/08                | 2021/06/08               | CAM SOP-00457            | OMOE E3015 m             |
| Conductivity                                | 8               | 2021/06/09                | 2021/06/09               | CAM SOP-00414            | OMOE E3530 v1 m          |
| Hexavalent Chromium in Soil by IC (1)       | 8               | 2021/06/08                | 2021/06/09               | CAM SOP-00436            | EPA 3060/7199 m          |
| Petroleum Hydro. CCME F1 & BTEX in Soil (2) | 7               | N/A                       | 2021/06/08               | CAM SOP-00315            | CCME PHC-CWS m           |
| Petroleum Hydrocarbons F2-F4 in Soil (3)    | 11              | 2021/06/07                | 2021/06/08               | CAM SOP-00316            | CCME CWS m               |
| Acid Extractable Metals by ICPMS            | 1               | 2021/06/08                | 2021/06/08               | CAM SOP-00447            | EPA 6020B m              |
| Acid Extractable Metals by ICPMS            | 7               | 2021/06/08                | 2021/06/09               | CAM SOP-00447            | EPA 6020B m              |
| Moisture                                    | 28              | N/A                       | 2021/06/07               | CAM SOP-00445            | Carter 2nd ed 51.2 m     |
| OC Pesticides (Selected) & PCB (4)          | 6               | 2021/06/08                | 2021/06/09               | CAM SOP-00307            | SW846 8081, 8082         |
| OC Pesticides Summed Parameters             | 6               | N/A                       | 2021/06/08               | CAM SOP-00307            | EPA 8081/8082 m          |
| Polychlorinated Biphenyl in Soil            | 3               | 2021/06/07                | 2021/06/08               | CAM SOP-00309            | EPA 8082A m              |
| pH CaCl2 EXTRACT                            | 8               | 2021/06/09                | 2021/06/09               | CAM SOP-00413            | EPA 9045 D m             |
| Sodium Adsorption Ratio (SAR)               | 8               | N/A                       | 2021/06/10               | CAM SOP-00102            | EPA 6010C                |
| Volatile Organic Compounds and F1 PHCs      | 4               | N/A                       | 2021/06/11               | CAM SOP-00230            | EPA 8260C m              |

**Remarks:**

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

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

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.





Your P.O. #: MRK-GEO  
Your Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY

**Attention: Aleksandar Saric**

exp Services Inc  
Markham Branch  
220 Commerce Valley Dr W  
Suite 500  
Markham, ON  
CANADA L3T 0A8

Your C.O.C. #: 792128-83-01, 792128-121-01, 792128-163-01

**Report Date: 2021/06/11**  
Report #: R6672190  
Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1F3550**

**Received: 2021/06/04, 15:30**

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Soils are reported on a dry weight basis unless otherwise specified.

(2) No lab extraction date is given for F1BTX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

(4) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Patricia Legette, Project Manager

Email: Patricia.Legette@bureauveritas.com

Phone# (905) 817-5799

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|               |       |                        |                        |          |                         |     |          |
|---------------|-------|------------------------|------------------------|----------|-------------------------|-----|----------|
| BV Labs ID    |       | PTI234                 | PTI237                 |          | PTI238                  |     |          |
| Sampling Date |       | 2021/05/27             | 2021/05/28             |          | 2021/05/28              |     |          |
| COC Number    |       | 792128-83-01           | 792128-83-01           |          | 792128-83-01            |     |          |
|               | UNITS | BH-3 SS3<br>(1.5-2.1M) | BH-4 SS3<br>(1.5-2.1M) | QC Batch | BH-4 SS3D<br>(1.5-2.1M) | RDL | QC Batch |

#### Calculated Parameters

|                         |     |          |      |         |      |  |         |
|-------------------------|-----|----------|------|---------|------|--|---------|
| Sodium Adsorption Ratio | N/A | 0.31 (1) | 0.29 | 7391452 | 0.29 |  | 7391452 |
|-------------------------|-----|----------|------|---------|------|--|---------|

#### Inorganics

|                                   |       |       |       |         |       |       |         |
|-----------------------------------|-------|-------|-------|---------|-------|-------|---------|
| Conductivity                      | mS/cm | 0.12  | 0.28  | 7397185 | 0.29  | 0.002 | 7397185 |
| Moisture                          | %     | 12    | 14    | 7393235 | 14    | 1.0   | 7393235 |
| Available (CaCl <sub>2</sub> ) pH | pH    | 7.79  | 7.27  | 7397483 | 7.31  |       | 7397483 |
| WAD Cyanide (Free)                | ug/g  | <0.01 | <0.01 | 7394587 | <0.01 | 0.01  | 7394587 |
| Chromium (VI)                     | ug/g  | <0.18 | <0.18 | 7395470 | <0.18 | 0.18  | 7394948 |

#### Metals

|                                  |      |        |       |         |       |       |         |
|----------------------------------|------|--------|-------|---------|-------|-------|---------|
| Hot Water Ext. Boron (B)         | ug/g | <0.050 | 0.51  | 7395236 | 0.52  | 0.050 | 7395236 |
| Acid Extractable Antimony (Sb)   | ug/g | <0.20  | <0.20 | 7395393 | <0.20 | 0.20  | 7395627 |
| Acid Extractable Arsenic (As)    | ug/g | <1.0   | 1.6   | 7395393 | 1.9   | 1.0   | 7395627 |
| Acid Extractable Barium (Ba)     | ug/g | 15     | 46    | 7395393 | 50    | 0.50  | 7395627 |
| Acid Extractable Beryllium (Be)  | ug/g | <0.20  | 0.36  | 7395393 | 0.40  | 0.20  | 7395627 |
| Acid Extractable Boron (B)       | ug/g | <5.0   | <5.0  | 7395393 | <5.0  | 5.0   | 7395627 |
| Acid Extractable Cadmium (Cd)    | ug/g | <0.10  | <0.10 | 7395393 | 0.14  | 0.10  | 7395627 |
| Acid Extractable Chromium (Cr)   | ug/g | 7.5    | 16    | 7395393 | 19    | 1.0   | 7395627 |
| Acid Extractable Cobalt (Co)     | ug/g | 2.4    | 4.1   | 7395393 | 4.8   | 0.10  | 7395627 |
| Acid Extractable Copper (Cu)     | ug/g | 3.5    | 7.7   | 7395393 | 9.1   | 0.50  | 7395627 |
| Acid Extractable Lead (Pb)       | ug/g | 2.2    | 7.7   | 7395393 | 8.0   | 1.0   | 7395627 |
| Acid Extractable Molybdenum (Mo) | ug/g | <0.50  | <0.50 | 7395393 | <0.50 | 0.50  | 7395627 |
| Acid Extractable Nickel (Ni)     | ug/g | 4.7    | 7.9   | 7395393 | 9.6   | 0.50  | 7395627 |
| Acid Extractable Selenium (Se)   | ug/g | <0.50  | <0.50 | 7395393 | <0.50 | 0.50  | 7395627 |
| Acid Extractable Silver (Ag)     | ug/g | <0.20  | <0.20 | 7395393 | <0.20 | 0.20  | 7395627 |
| Acid Extractable Thallium (Tl)   | ug/g | <0.050 | 0.075 | 7395393 | 0.086 | 0.050 | 7395627 |
| Acid Extractable Uranium (U)     | ug/g | 0.42   | 0.46  | 7395393 | 0.52  | 0.050 | 7395627 |
| Acid Extractable Vanadium (V)    | ug/g | 17     | 24    | 7395393 | 26    | 5.0   | 7395627 |
| Acid Extractable Zinc (Zn)       | ug/g | 9.9    | 30    | 7395393 | 35    | 5.0   | 7395627 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.



**BUREAU**  
**VERITAS**

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|  |              |                                |                                |                 |                                 |            |                 |
|--|--------------|--------------------------------|--------------------------------|-----------------|---------------------------------|------------|-----------------|
| BV Labs ID   |              | PTI234                         | PTI237                         |                 | PTI238                          |            |                 |
| Sampling Date  |              | 2021/05/27                     | 2021/05/28                     |                 | 2021/05/28                      |            |                 |
| COC Number   |              | 792128-83-01                   | 792128-83-01                   |                 | 792128-83-01                    |            |                 |
|  | <b>UNITS</b> | <b>BH-3 SS3<br/>(1.5-2.1M)</b> | <b>BH-4 SS3<br/>(1.5-2.1M)</b> | <b>QC Batch</b> | <b>BH-4 SS3D<br/>(1.5-2.1M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| Acid Extractable Mercury (Hg)  | ug/g         | <0.050                         | <0.050                         | 7395393         | 0.051                           | 0.050      | 7395627         |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch |              |                                |                                |                 |                                 |            |                 |



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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|  |       |   |       |          |                               |       |          |
|--|-------|---|-------|----------|-------------------------------|-------|----------|
| BV Labs ID   |       | PTI238                                      |       |          | PTI240                        |       |          |
| Sampling Date  |       | 2021/05/28                                  |       |          | 2021/05/28                    |       |          |
| COC Number   |       | 792128-83-01                                |       |          | 792128-83-01                  |       |          |
|  | UNITS | <b>BH-4 SS3D<br/>(1.5-2.1M)<br/>Lab-Dup</b> | RDL   | QC Batch | <b>BH-7 SS5<br/>(3.1-3.7)</b> | RDL   | QC Batch |
| <b>Calculated Parameters</b>   |       |   |       |          |                               |       |          |
| Sodium Adsorption Ratio  | N/A   |   |       |          | 0.50                          |       | 7391452  |
| <b>Inorganics</b>  |       |   |       |          |                               |       |          |
| Conductivity   | mS/cm |   |       |          | 0.27                          | 0.002 | 7397185  |
| Moisture   | %     |   |       |          | 17                            | 1.0   | 7393235  |
| Available (CaCl <sub>2</sub> ) pH  | pH    |   |       |          | 7.20                          |       | 7397483  |
| WAD Cyanide (Free)   | ug/g  |   |       |          | <0.01                         | 0.01  | 7394587  |
| Chromium (VI)  | ug/g  |   |       |          | <0.18                         | 0.18  | 7395470  |
| <b>Metals</b>  |       |   |       |          |                               |       |          |
| Hot Water Ext. Boron (B)   | ug/g  |   |       |          | 0.82                          | 0.050 | 7395236  |
| Acid Extractable Antimony (Sb)   | ug/g  | <0.20                                       | 0.20  | 7395627  | <0.20                         | 0.20  | 7395393  |
| Acid Extractable Arsenic (As)  | ug/g  | 1.8   | 1.0   | 7395627  | 3.0                           | 1.0   | 7395393  |
| Acid Extractable Barium (Ba)   | ug/g  | 50  | 0.50  | 7395627  | 90                            | 0.50  | 7395393  |
| Acid Extractable Beryllium (Be)  | ug/g  | 0.38  | 0.20  | 7395627  | 0.64                          | 0.20  | 7395393  |
| Acid Extractable Boron (B)   | ug/g  | <5.0  | 5.0   | 7395627  | 8.3                           | 5.0   | 7395393  |
| Acid Extractable Cadmium (Cd)  | ug/g  | 0.14  | 0.10  | 7395627  | 0.28                          | 0.10  | 7395393  |
| Acid Extractable Chromium (Cr)   | ug/g  | 18  | 1.0   | 7395627  | 21                            | 1.0   | 7395393  |
| Acid Extractable Cobalt (Co)   | ug/g  | 4.9   | 0.10  | 7395627  | 7.2                           | 0.10  | 7395393  |
| Acid Extractable Copper (Cu)   | ug/g  | 8.8   | 0.50  | 7395627  | 16                            | 0.50  | 7395393  |
| Acid Extractable Lead (Pb)   | ug/g  | 7.8   | 1.0   | 7395627  | 54                            | 1.0   | 7395393  |
| Acid Extractable Molybdenum (Mo)   | ug/g  | <0.50                                       | 0.50  | 7395627  | <0.50                         | 0.50  | 7395393  |
| Acid Extractable Nickel (Ni)   | ug/g  | 9.7   | 0.50  | 7395627  | 15                            | 0.50  | 7395393  |
| Acid Extractable Selenium (Se)   | ug/g  | <0.50                                       | 0.50  | 7395627  | <0.50                         | 0.50  | 7395393  |
| Acid Extractable Silver (Ag)   | ug/g  | <0.20                                       | 0.20  | 7395627  | <0.20                         | 0.20  | 7395393  |
| Acid Extractable Thallium (Tl)   | ug/g  | 0.085                                       | 0.050 | 7395627  | 0.13                          | 0.050 | 7395393  |
| Acid Extractable Uranium (U)   | ug/g  | 0.50  | 0.050 | 7395627  | 0.50                          | 0.050 | 7395393  |
| Acid Extractable Vanadium (V)  | ug/g  | 27  | 5.0   | 7395627  | 32                            | 5.0   | 7395393  |
| Acid Extractable Zinc (Zn)   | ug/g  | 35  | 5.0   | 7395627  | 68                            | 5.0   | 7395393  |
| Acid Extractable Mercury (Hg)  | ug/g  | <0.050                                      | 0.050 | 7395627  | 0.13                          | 0.050 | 7395393  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>Lab-Dup = Laboratory Initiated Duplicate |       |   |       |          |                               |       |          |



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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|               |              |                                 |                                 |                 |                                  |            |                 |
|---------------|--------------|---------------------------------|---------------------------------|-----------------|----------------------------------|------------|-----------------|
| BV Labs ID    |              | PTI242                          | PTI251                          |                 | PTI254                           |            |                 |
| Sampling Date |              | 2021/05/27                      | 2021/05/26                      |                 | 2021/06/01<br>12:15              |            |                 |
| COC Number    |              | 792128-83-01                    | 792128-121-01                   |                 | 792128-121-01                    |            |                 |
|               | <b>UNITS</b> | <b>BH-12 SS3<br/>(1.5-2.1M)</b> | <b>BH-14 SS3<br/>(1.5-2.1M)</b> | <b>QC Batch</b> | <b>BH-101 SS1<br/>(0.0-0.6M)</b> | <b>RDL</b> | <b>QC Batch</b> |

#### Calculated Parameters

|                         |     |          |          |         |          |  |         |
|-------------------------|-----|----------|----------|---------|----------|--|---------|
| Sodium Adsorption Ratio | N/A | 0.30 (1) | 0.21 (1) | 7391452 | 0.21 (1) |  | 7391452 |
|-------------------------|-----|----------|----------|---------|----------|--|---------|

#### Inorganics

|                                   |       |       |       |         |       |       |         |
|-----------------------------------|-------|-------|-------|---------|-------|-------|---------|
| Conductivity                      | mS/cm | 0.12  | 0.26  | 7397185 | 0.25  | 0.002 | 7397185 |
| Moisture                          | %     | 13    | 18    | 7393235 | 13    | 1.0   | 7393235 |
| Available (CaCl <sub>2</sub> ) pH | pH    | 7.67  | 7.21  | 7397483 | 7.64  |       | 7397483 |
| WAD Cyanide (Free)                | ug/g  | <0.01 | <0.01 | 7394587 | <0.01 | 0.01  | 7394587 |
| Chromium (VI)                     | ug/g  | <0.18 | <0.18 | 7394948 | <0.18 | 0.18  | 7395470 |

#### Metals

|                                  |      |       |       |         |       |       |         |
|----------------------------------|------|-------|-------|---------|-------|-------|---------|
| Hot Water Ext. Boron (B)         | ug/g | 0.056 | 0.44  | 7395236 | 0.92  | 0.050 | 7395236 |
| Acid Extractable Antimony (Sb)   | ug/g | <0.20 | <0.20 | 7395393 | <0.20 | 0.20  | 7395393 |
| Acid Extractable Arsenic (As)    | ug/g | 1.0   | 1.3   | 7395393 | 1.4   | 1.0   | 7395393 |
| Acid Extractable Barium (Ba)     | ug/g | 30    | 29    | 7395393 | 42    | 0.50  | 7395393 |
| Acid Extractable Beryllium (Be)  | ug/g | 0.26  | 0.25  | 7395393 | 0.25  | 0.20  | 7395393 |
| Acid Extractable Boron (B)       | ug/g | <5.0  | <5.0  | 7395393 | 5.6   | 5.0   | 7395393 |
| Acid Extractable Cadmium (Cd)    | ug/g | <0.10 | 0.17  | 7395393 | 0.16  | 0.10  | 7395393 |
| Acid Extractable Chromium (Cr)   | ug/g | 9.8   | 10    | 7395393 | 10    | 1.0   | 7395393 |
| Acid Extractable Cobalt (Co)     | ug/g | 3.1   | 2.9   | 7395393 | 3.2   | 0.10  | 7395393 |
| Acid Extractable Copper (Cu)     | ug/g | 5.7   | 4.3   | 7395393 | 9.0   | 0.50  | 7395393 |
| Acid Extractable Lead (Pb)       | ug/g | 4.8   | 6.2   | 7395393 | 21    | 1.0   | 7395393 |
| Acid Extractable Molybdenum (Mo) | ug/g | <0.50 | <0.50 | 7395393 | <0.50 | 0.50  | 7395393 |
| Acid Extractable Nickel (Ni)     | ug/g | 6.0   | 5.5   | 7395393 | 6.3   | 0.50  | 7395393 |
| Acid Extractable Selenium (Se)   | ug/g | <0.50 | <0.50 | 7395393 | <0.50 | 0.50  | 7395393 |
| Acid Extractable Silver (Ag)     | ug/g | <0.20 | <0.20 | 7395393 | <0.20 | 0.20  | 7395393 |
| Acid Extractable Thallium (Tl)   | ug/g | 0.055 | 0.055 | 7395393 | 0.062 | 0.050 | 7395393 |
| Acid Extractable Uranium (U)     | ug/g | 0.42  | 0.41  | 7395393 | 0.37  | 0.050 | 7395393 |
| Acid Extractable Vanadium (V)    | ug/g | 20    | 21    | 7395393 | 19    | 5.0   | 7395393 |
| Acid Extractable Zinc (Zn)       | ug/g | 15    | 24    | 7395393 | 40    | 5.0   | 7395393 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.



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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|  |       |                         |                         |          |                          |       |          |
|--|-------|-------------------------|-------------------------|----------|--------------------------|-------|----------|
| BV Labs ID   |       | PTI242                  | PTI251                  |          | PTI254                   |       |          |
| Sampling Date  |       | 2021/05/27              | 2021/05/26              |          | 2021/06/01<br>12:15      |       |          |
| COC Number   |       | 792128-83-01            | 792128-121-01           |          | 792128-121-01            |       |          |
|  | UNITS | BH-12 SS3<br>(1.5-2.1M) | BH-14 SS3<br>(1.5-2.1M) | QC Batch | BH-101 SS1<br>(0.0-0.6M) | RDL   | QC Batch |
| Acid Extractable Mercury (Hg)  | ug/g  | <0.050                  | <0.050                  | 7395393  | 0.061                    | 0.050 | 7395393  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch |       |                         |                         |          |                          |       |          |



BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
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Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 METALS & INORGANICS PKG (SOIL)

|               |              |                                  |            |                 |  |            |                 |
|---------------|--------------|----------------------------------|------------|-----------------|--|------------|-----------------|
| BV Labs ID    |              | PTI263                           |            |                 | PTI263                                       |            |                 |
| Sampling Date |              | 2021/06/02<br>08:40              |            |                 | 2021/06/02<br>08:40                          |            |                 |
| COC Number    |              | 792128-163-01                    |            |                 | 792128-163-01                                |            |                 |
|               | <b>UNITS</b> | <b>BH-105 SS2<br/>(0.8-1.4M)</b> | <b>RDL</b> | <b>QC Batch</b> | <b>BH-105 SS2<br/>(0.8-1.4M)<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

#### Calculated Parameters

|                         |     |      |  |         |  |  |  |
|-------------------------|-----|------|--|---------|--|--|--|
| Sodium Adsorption Ratio | N/A | 0.26 |  | 7391452 |  |  |  |
|-------------------------|-----|------|--|---------|--|--|--|

#### Inorganics

|                                   |       |       |       |         |       |      |         |
|-----------------------------------|-------|-------|-------|---------|-------|------|---------|
| Conductivity                      | mS/cm | 0.24  | 0.002 | 7397185 |       |      |         |
| Moisture                          | %     | 17    | 1.0   | 7393235 |       |      |         |
| Available (CaCl <sub>2</sub> ) pH | pH    | 7.08  |       | 7397483 |       |      |         |
| WAD Cyanide (Free)                | ug/g  | <0.01 | 0.01  | 7394587 |       |      |         |
| Chromium (VI)                     | ug/g  | <0.18 | 0.18  | 7395470 | <0.18 | 0.18 | 7395470 |

#### Metals

|                                  |      |        |       |         |  |  |  |
|----------------------------------|------|--------|-------|---------|--|--|--|
| Hot Water Ext. Boron (B)         | ug/g | 0.51   | 0.050 | 7395236 |  |  |  |
| Acid Extractable Antimony (Sb)   | ug/g | <0.20  | 0.20  | 7395393 |  |  |  |
| Acid Extractable Arsenic (As)    | ug/g | 1.7    | 1.0   | 7395393 |  |  |  |
| Acid Extractable Barium (Ba)     | ug/g | 48     | 0.50  | 7395393 |  |  |  |
| Acid Extractable Beryllium (Be)  | ug/g | 0.37   | 0.20  | 7395393 |  |  |  |
| Acid Extractable Boron (B)       | ug/g | 5.2    | 5.0   | 7395393 |  |  |  |
| Acid Extractable Cadmium (Cd)    | ug/g | 0.14   | 0.10  | 7395393 |  |  |  |
| Acid Extractable Chromium (Cr)   | ug/g | 17     | 1.0   | 7395393 |  |  |  |
| Acid Extractable Cobalt (Co)     | ug/g | 4.6    | 0.10  | 7395393 |  |  |  |
| Acid Extractable Copper (Cu)     | ug/g | 9.0    | 0.50  | 7395393 |  |  |  |
| Acid Extractable Lead (Pb)       | ug/g | 7.8    | 1.0   | 7395393 |  |  |  |
| Acid Extractable Molybdenum (Mo) | ug/g | <0.50  | 0.50  | 7395393 |  |  |  |
| Acid Extractable Nickel (Ni)     | ug/g | 9.2    | 0.50  | 7395393 |  |  |  |
| Acid Extractable Selenium (Se)   | ug/g | <0.50  | 0.50  | 7395393 |  |  |  |
| Acid Extractable Silver (Ag)     | ug/g | <0.20  | 0.20  | 7395393 |  |  |  |
| Acid Extractable Thallium (Tl)   | ug/g | 0.089  | 0.050 | 7395393 |  |  |  |
| Acid Extractable Uranium (U)     | ug/g | 0.49   | 0.050 | 7395393 |  |  |  |
| Acid Extractable Vanadium (V)    | ug/g | 25     | 5.0   | 7395393 |  |  |  |
| Acid Extractable Zinc (Zn)       | ug/g | 31     | 5.0   | 7395393 |  |  |  |
| Acid Extractable Mercury (Hg)    | ug/g | <0.050 | 0.050 | 7395393 |  |  |  |

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



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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 OC PESTICIDES (SOIL)

| BV Labs ID    |              | PTI235                         | PTI236                          | PTI239                         | PTI241                          |            |                 |
|---------------|--------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|------------|-----------------|
| Sampling Date |              | 2021/05/28                     | 2021/05/28                      | 2021/05/28                     | 2021/05/27                      |            |                 |
| COC Number    |              | 792128-83-01                   | 792128-83-01                    | 792128-83-01                   | 792128-83-01                    |            |                 |
|               | <b>UNITS</b> | <b>BH-4 SS1<br/>(0.0-0.6M)</b> | <b>BH-4 SS1D<br/>(0.0-0.6M)</b> | <b>BH-7 SS1<br/>(0.0-0.6M)</b> | <b>BH-12 SS2<br/>(0.8-1.4M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                    |      |         |         |         |         |        |         |
|------------------------------------|------|---------|---------|---------|---------|--------|---------|
| <b>Inorganics</b>                  |      |         |         |         |         |        |         |
| Moisture                           | %    | 21      | 21      | 16      | 9.5     | 1.0    | 7393020 |
| <b>Calculated Parameters</b>       |      |         |         |         |         |        |         |
| Chlordane (Total)                  | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7391451 |
| o,p-DDD + p,p-DDD                  | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7391451 |
| o,p-DDE + p,p-DDE                  | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7391451 |
| o,p-DDT + p,p-DDT                  | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7391451 |
| Total Endosulfan                   | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7391451 |
| Total PCB                          | ug/g | <0.015  | <0.015  | <0.015  | <0.015  | 0.015  | 7391451 |
| <b>Pesticides &amp; Herbicides</b> |      |         |         |         |         |        |         |
| Aldrin                             | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| a-Chlordane                        | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| g-Chlordane                        | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| o,p-DDD                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| p,p-DDD                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| o,p-DDE                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| p,p-DDE                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| o,p-DDT                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| p,p-DDT                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Dieldrin                           | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Lindane                            | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Endosulfan I (alpha)               | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Endosulfan II (beta)               | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Endrin                             | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Heptachlor                         | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Heptachlor epoxide                 | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Hexachlorobenzene                  | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Hexachlorobutadiene                | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Hexachloroethane                   | ug/g | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7395123 |
| Methoxychlor                       | ug/g | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0050 | 7395123 |
| RDL = Reportable Detection Limit   |      |         |         |         |         |        |         |
| QC Batch = Quality Control Batch   |      |         |         |         |         |        |         |





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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 OC PESTICIDES (SOIL)

| BV Labs ID                       |       | PTI235                 | PTI236                  | PTI239                 | PTI241                  |       |          |
|----------------------------------|-------|------------------------|-------------------------|------------------------|-------------------------|-------|----------|
| Sampling Date                    |       | 2021/05/28             | 2021/05/28              | 2021/05/28             | 2021/05/27              |       |          |
| COC Number                       |       | 792128-83-01           | 792128-83-01            | 792128-83-01           | 792128-83-01            |       |          |
|                                  | UNITS | BH-4 SS1<br>(0.0-0.6M) | BH-4 SS1D<br>(0.0-0.6M) | BH-7 SS1<br>(0.0-0.6M) | BH-12 SS2<br>(0.8-1.4M) | RDL   | QC Batch |
| Aroclor 1242                     | ug/g  | <0.015                 | <0.015                  | <0.015                 | <0.015                  | 0.015 | 7395123  |
| Aroclor 1248                     | ug/g  | <0.015                 | <0.015                  | <0.015                 | <0.015                  | 0.015 | 7395123  |
| Aroclor 1254                     | ug/g  | <0.015                 | <0.015                  | <0.015                 | <0.015                  | 0.015 | 7395123  |
| Aroclor 1260                     | ug/g  | <0.015                 | <0.015                  | <0.015                 | <0.015                  | 0.015 | 7395123  |
| <b>Surrogate Recovery (%)</b>    |       |                        |                         |                        |                         |       |          |
| 2,4,5,6-Tetrachloro-m-xylene     | %     | 82                     | 98                      | 93                     | 84                      |       | 7395123  |
| Decachlorobiphenyl               | %     | 86                     | 120                     | 93                     | 82                      |       | 7395123  |
| RDL = Reportable Detection Limit |       |                        |                         |                        |                         |       |          |
| QC Batch = Quality Control Batch |       |                        |                         |                        |                         |       |          |



BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
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Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 OC PESTICIDES (SOIL)

|                                    |              |                                 |                                  |            |                 |
|------------------------------------|--------------|---------------------------------|----------------------------------|------------|-----------------|
| BV Labs ID                         |              | PTI243                          | PTI262                           |            |                 |
| Sampling Date                      |              | 2021/05/26                      | 2021/06/02<br>08:30              |            |                 |
| COC Number                         |              | 792128-83-01                    | 792128-163-01                    |            |                 |
|                                    | <b>UNITS</b> | <b>BH-14 SS2<br/>(0.8-1.4M)</b> | <b>BH-105 SS1<br/>(0.0-0.6M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| <b>Inorganics</b>                  |              |                                 |                                  |            |                 |
| Moisture                           | %            | 16                              | 12                               | 1.0        | 7393020         |
| <b>Calculated Parameters</b>       |              |                                 |                                  |            |                 |
| Chlordane (Total)                  | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7391451         |
| o,p-DDD + p,p-DDD                  | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7391451         |
| o,p-DDE + p,p-DDE                  | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7391451         |
| o,p-DDT + p,p-DDT                  | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7391451         |
| Total Endosulfan                   | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7391451         |
| Total PCB                          | ug/g         | <0.015                          | <0.015                           | 0.015      | 7391451         |
| <b>Pesticides &amp; Herbicides</b> |              |                                 |                                  |            |                 |
| Aldrin                             | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| a-Chlordane                        | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| g-Chlordane                        | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| o,p-DDD                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| p,p-DDD                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| o,p-DDE                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| p,p-DDE                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| o,p-DDT                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| p,p-DDT                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Dieldrin                           | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Lindane                            | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Endosulfan I (alpha)               | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Endosulfan II (beta)               | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Endrin                             | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Heptachlor                         | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Heptachlor epoxide                 | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Hexachlorobenzene                  | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Hexachlorobutadiene                | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Hexachloroethane                   | ug/g         | <0.0020                         | <0.0020                          | 0.0020     | 7395123         |
| Methoxychlor                       | ug/g         | <0.0050                         | <0.0050                          | 0.0050     | 7395123         |
| RDL = Reportable Detection Limit   |              |                                 |                                  |            |                 |
| QC Batch = Quality Control Batch   |              |                                 |                                  |            |                 |



### O.REG 153 OC PESTICIDES (SOIL)

|                                  |              |                                 |                                  |            |                 |
|----------------------------------|--------------|---------------------------------|----------------------------------|------------|-----------------|
| BV Labs ID                       |              | PTI243                          | PTI262                           |            |                 |
| Sampling Date                    |              | 2021/05/26                      | 2021/06/02<br>08:30              |            |                 |
| COC Number                       |              | 792128-83-01                    | 792128-163-01                    |            |                 |
|                                  | <b>UNITS</b> | <b>BH-14 SS2<br/>(0.8-1.4M)</b> | <b>BH-105 SS1<br/>(0.0-0.6M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| Aroclor 1242                     | ug/g         | <0.015                          | <0.015                           | 0.015      | 7395123         |
| Aroclor 1248                     | ug/g         | <0.015                          | <0.015                           | 0.015      | 7395123         |
| Aroclor 1254                     | ug/g         | <0.015                          | <0.015                           | 0.015      | 7395123         |
| Aroclor 1260                     | ug/g         | <0.015                          | <0.015                           | 0.015      | 7395123         |
| <b>Surrogate Recovery (%)</b>    |              |                                 |                                  |            |                 |
| 2,4,5,6-Tetrachloro-m-xylene     | %            | 76                              | 77                               |            | 7395123         |
| Decachlorobiphenyl               | %            | 87                              | 93                               |            | 7395123         |
| RDL = Reportable Detection Limit |              |                                 |                                  |            |                 |
| QC Batch = Quality Control Batch |              |                                 |                                  |            |                 |



### O.REG 153 PCBS (SOIL)

|  |              |                                 |                                  |                                   |            |                 |
|--|--------------|---------------------------------|----------------------------------|-----------------------------------|------------|-----------------|
| BV Labs ID   |              | PTI252                          | PTI265                           | PTI266                            |            |                 |
| Sampling Date  |              | 2021/05/31                      | 2021/06/02<br>14:45              | 2021/06/02<br>14:45               |            |                 |
| COC Number   |              | 792128-121-01                   | 792128-163-01                    | 792128-163-01                     |            |                 |
|  | <b>UNITS</b> | <b>BH-16 SS2<br/>(0.8-1.4M)</b> | <b>BH-107 SS2<br/>(0.8-1.4M)</b> | <b>BH-107 SS2D<br/>(0.8-1.4M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| <b>Inorganics</b>  |              |                                 |                                  |                                   |            |                 |
| Moisture   | %            | 16                              | 16                               | 17                                | 1.0        | 7393020         |
| <b>PCBs</b>  |              |                                 |                                  |                                   |            |                 |
| Aroclor 1242   | ug/g         | <0.010                          | <0.010                           | <0.010                            | 0.010      | 7394457         |
| Aroclor 1248   | ug/g         | <0.010                          | <0.010                           | <0.010                            | 0.010      | 7394457         |
| Aroclor 1254   | ug/g         | <0.010                          | <0.010                           | <0.010                            | 0.010      | 7394457         |
| Aroclor 1260   | ug/g         | <0.010                          | <0.010                           | <0.010                            | 0.010      | 7394457         |
| Total PCB  | ug/g         | <0.010                          | <0.010                           | <0.010                            | 0.010      | 7394457         |
| <b>Surrogate Recovery (%)</b>  |              |                                 |                                  |                                   |            |                 |
| Decachlorobiphenyl   | %            | 93                              | 92                               | 92                                |            | 7394457         |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch |              |                                 |                                  |                                   |            |                 |

**O.REG 153 PHCS, BTEX/F1-F4 (SOIL)**

|               |              |                                 |                                  |                                  |                                  |            |                 |
|---------------|--------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|------------|-----------------|
| BV Labs ID    |              | PTI253                          | PTI255                           | PTI260                           | PTI261                           |            |                 |
| Sampling Date |              | 2021/05/31                      | 2021/06/01<br>12:40              | 2021/06/01<br>14:00              | 2021/06/02<br>14:20              |            |                 |
| COC Number    |              | 792128-121-01                   | 792128-121-01                    | 792128-121-01                    | 792128-163-01                    |            |                 |
|               | <b>UNITS</b> | <b>BH-16 SS3<br/>(1.5-2.1M)</b> | <b>BH-101 SS4<br/>(2.3-2.7M)</b> | <b>BH-103 SS6<br/>(3.8-4.4M)</b> | <b>BH-104 SS4<br/>(2.3-2.7M)</b> | <b>RDL</b> | <b>QC Batch</b> |

|                                   |      |        |        |        |        |       |         |
|-----------------------------------|------|--------|--------|--------|--------|-------|---------|
| <b>Inorganics</b>                 |      |        |        |        |        |       |         |
| Moisture                          | %    | 19     | 17     | 16     | 15     | 1.0   | 7393235 |
| <b>BTEX &amp; F1 Hydrocarbons</b> |      |        |        |        |        |       |         |
| Benzene                           | ug/g | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 7393649 |
| Toluene                           | ug/g | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 7393649 |
| Ethylbenzene                      | ug/g | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 7393649 |
| o-Xylene                          | ug/g | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 7393649 |
| p+m-Xylene                        | ug/g | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 7393649 |
| Total Xylenes                     | ug/g | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 7393649 |
| F1 (C6-C10)                       | ug/g | <10    | <10    | <10    | <10    | 10    | 7393649 |
| F1 (C6-C10) - BTEX                | ug/g | <10    | <10    | <10    | <10    | 10    | 7393649 |
| <b>F2-F4 Hydrocarbons</b>         |      |        |        |        |        |       |         |
| F2 (C10-C16 Hydrocarbons)         | ug/g | <10    | <10    | <10    | <10    | 10    | 7393224 |
| F3 (C16-C34 Hydrocarbons)         | ug/g | 54     | <50    | <50    | <50    | 50    | 7393224 |
| F4 (C34-C50 Hydrocarbons)         | ug/g | <50    | <50    | <50    | <50    | 50    | 7393224 |
| Reached Baseline at C50           | ug/g | Yes    | Yes    | Yes    | Yes    |       | 7393224 |
| <b>Surrogate Recovery (%)</b>     |      |        |        |        |        |       |         |
| 1,4-Difluorobenzene               | %    | 97     | 95     | 96     | 97     |       | 7393649 |
| 4-Bromofluorobenzene              | %    | 99     | 98     | 95     | 96     |       | 7393649 |
| D10-o-Xylene                      | %    | 107    | 110    | 103    | 111    |       | 7393649 |
| D4-1,2-Dichloroethane             | %    | 116    | 117    | 114    | 114    |       | 7393649 |
| o-Terphenyl                       | %    | 88     | 91     | 85     | 87     |       | 7393224 |
| RDL = Reportable Detection Limit  |      |        |        |        |        |       |         |
| QC Batch = Quality Control Batch  |      |        |        |        |        |       |         |



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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

|               |       |  |     |          |                                  |                                  |     |          |
|---------------|-------|--|-----|----------|----------------------------------|----------------------------------|-----|----------|
| BV Labs ID    |       | PTI261                                       |     |          | PTI264                           | PTI267                           |     |          |
| Sampling Date |       | 2021/06/02<br>14:20                          |     |          | 2021/06/02<br>11:20              | 2021/06/02<br>14:55              |     |          |
| COC Number    |       | 792128-163-01                                |     |          | 792128-163-01                    | 792128-163-01                    |     |          |
|               | UNITS | <b>BH-104 SS4<br/>(2.3-2.7M)<br/>Lab-Dup</b> | RDL | QC Batch | <b>BH-106 SS4<br/>(0.8-1.4M)</b> | <b>BH-107 SS3<br/>(1.5-2.1M)</b> | RDL | QC Batch |

|  |      |    |     |         |        |        |       |         |
|--|------|----|-----|---------|--------|--------|-------|---------|
| <b>Inorganics</b>                        |      |    |     |         |        |        |       |         |
| Moisture                                 | %    | 15 | 1.0 | 7393235 | 16     | 16     | 1.0   | 7393235 |
| <b>BTEX &amp; F1 Hydrocarbons</b>        |      |    |     |         |        |        |       |         |
| Benzene                                  | ug/g |    |     |         | <0.020 | <0.020 | 0.020 | 7393649 |
| Toluene                                  | ug/g |    |     |         | <0.020 | <0.020 | 0.020 | 7393649 |
| Ethylbenzene                             | ug/g |    |     |         | <0.020 | <0.020 | 0.020 | 7393649 |
| o-Xylene                                 | ug/g |    |     |         | <0.020 | <0.020 | 0.020 | 7393649 |
| p+m-Xylene                               | ug/g |    |     |         | <0.040 | <0.040 | 0.040 | 7393649 |
| Total Xylenes                            | ug/g |    |     |         | <0.040 | <0.040 | 0.040 | 7393649 |
| F1 (C6-C10)                              | ug/g |    |     |         | <10    | <10    | 10    | 7393649 |
| F1 (C6-C10) - BTEX                       | ug/g |    |     |         | <10    | <10    | 10    | 7393649 |
| <b>F2-F4 Hydrocarbons</b>                |      |    |     |         |        |        |       |         |
| F2 (C10-C16 Hydrocarbons)                | ug/g |    |     |         | <10    | <10    | 10    | 7393224 |
| F3 (C16-C34 Hydrocarbons)                | ug/g |    |     |         | <50    | <50    | 50    | 7393224 |
| F4 (C34-C50 Hydrocarbons)                | ug/g |    |     |         | <50    | <50    | 50    | 7393224 |
| Reached Baseline at C50                  | ug/g |    |     |         | Yes    | Yes    |       | 7393224 |
| <b>Surrogate Recovery (%)</b>            |      |    |     |         |        |        |       |         |
| 1,4-Difluorobenzene                      | %    |    |     |         | 96     | 96     |       | 7393649 |
| 4-Bromofluorobenzene                     | %    |    |     |         | 96     | 99     |       | 7393649 |
| D10-o-Xylene                             | %    |    |     |         | 95     | 104    |       | 7393649 |
| D4-1,2-Dichloroethane                    | %    |    |     |         | 116    | 115    |       | 7393649 |
| o-Terphenyl                              | %    |    |     |         | 87     | 89     |       | 7393224 |
| RDL = Reportable Detection Limit         |      |    |     |         |        |        |       |         |
| QC Batch = Quality Control Batch         |      |    |     |         |        |        |       |         |
| Lab-Dup = Laboratory Initiated Duplicate |      |    |     |         |        |        |       |         |



**O.REG 153 PHCS, BTEX/F1-F4 (SOIL)**

|                                   |              |                                  |            |                 |
|-----------------------------------|--------------|----------------------------------|------------|-----------------|
| BV Labs ID                        |              | PTI268                           |            |                 |
| Sampling Date                     |              | 2021/06/02<br>15:15              |            |                 |
| COC Number                        |              | 792128-163-01                    |            |                 |
|                                   | <b>UNITS</b> | <b>BH-108 SS2<br/>(0.8-1.4M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| <b>Inorganics</b>                 |              |                                  |            |                 |
| Moisture                          | %            | 16                               | 1.0        | 7393235         |
| <b>BTEX &amp; F1 Hydrocarbons</b> |              |                                  |            |                 |
| Benzene                           | ug/g         | <0.020                           | 0.020      | 7393649         |
| Toluene                           | ug/g         | <0.020                           | 0.020      | 7393649         |
| Ethylbenzene                      | ug/g         | <0.020                           | 0.020      | 7393649         |
| o-Xylene                          | ug/g         | <0.020                           | 0.020      | 7393649         |
| p+m-Xylene                        | ug/g         | <0.040                           | 0.040      | 7393649         |
| Total Xylenes                     | ug/g         | <0.040                           | 0.040      | 7393649         |
| F1 (C6-C10)                       | ug/g         | <10                              | 10         | 7393649         |
| F1 (C6-C10) - BTEX                | ug/g         | <10                              | 10         | 7393649         |
| <b>F2-F4 Hydrocarbons</b>         |              |                                  |            |                 |
| F2 (C10-C16 Hydrocarbons)         | ug/g         | <10                              | 10         | 7393224         |
| F3 (C16-C34 Hydrocarbons)         | ug/g         | <50                              | 50         | 7393224         |
| F4 (C34-C50 Hydrocarbons)         | ug/g         | <50                              | 50         | 7393224         |
| Reached Baseline at C50           | ug/g         | Yes                              |            | 7393224         |
| <b>Surrogate Recovery (%)</b>     |              |                                  |            |                 |
| 1,4-Difluorobenzene               | %            | 98                               |            | 7393649         |
| 4-Bromofluorobenzene              | %            | 94                               |            | 7393649         |
| D10-o-Xylene                      | %            | 103                              |            | 7393649         |
| D4-1,2-Dichloroethane             | %            | 114                              |            | 7393649         |
| o-Terphenyl                       | %            | 93                               |            | 7393224         |
| RDL = Reportable Detection Limit  |              |                                  |            |                 |
| QC Batch = Quality Control Batch  |              |                                  |            |                 |



### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

| BV Labs ID                          |       | PTI256                   | PTI257                    | PTI258                   |       |          |
|-------------------------------------|-------|--------------------------|---------------------------|--------------------------|-------|----------|
| Sampling Date                       |       | 2021/06/01<br>09:00      | 2021/06/01<br>09:00       | 2021/06/01<br>08:15      |       |          |
| COC Number                          |       | 792128-121-01            | 792128-121-01             | 792128-121-01            |       |          |
|                                     | UNITS | BH-102 SS5<br>(3.1-3.7M) | BH-102 SS5D<br>(3.1-3.7M) | BH-102 SS6<br>(3.8-4.4M) | RDL   | QC Batch |
| <b>Inorganics</b>                   |       |                          |                           |                          |       |          |
| Moisture                            | %     | 15                       | 15                        | 15                       | 1.0   | 7393235  |
| <b>Calculated Parameters</b>        |       |                          |                           |                          |       |          |
| 1,3-Dichloropropene (cis+trans)     | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7391450  |
| <b>Volatile Organics</b>            |       |                          |                           |                          |       |          |
| Acetone (2-Propanone)               | ug/g  | <0.50                    | <0.50                     | <0.50                    | 0.50  | 7392157  |
| Benzene                             | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| Bromodichloromethane                | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Bromoform                           | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Bromomethane                        | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Carbon Tetrachloride                | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Chlorobenzene                       | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Chloroform                          | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Dibromochloromethane                | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichlorobenzene                 | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,3-Dichlorobenzene                 | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,4-Dichlorobenzene                 | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Dichlorodifluoromethane (FREON 12)  | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,1-Dichloroethane                  | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichloroethane                  | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,1-Dichloroethylene                | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| cis-1,2-Dichloroethylene            | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| trans-1,2-Dichloroethylene          | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichloropropane                 | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| cis-1,3-Dichloropropene             | ug/g  | <0.030                   | <0.030                    | <0.030                   | 0.030 | 7392157  |
| trans-1,3-Dichloropropene           | ug/g  | <0.040                   | <0.040                    | <0.040                   | 0.040 | 7392157  |
| Ethylbenzene                        | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| Ethylene Dibromide                  | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Hexane                              | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Methylene Chloride(Dichloromethane) | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| RDL = Reportable Detection Limit    |       |                          |                           |                          |       |          |
| QC Batch = Quality Control Batch    |       |                          |                           |                          |       |          |





BUREAU  
VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

| BV Labs ID                        |       | PTI256                   | PTI257                    | PTI258                   |       |          |
|-----------------------------------|-------|--------------------------|---------------------------|--------------------------|-------|----------|
| Sampling Date                     |       | 2021/06/01<br>09:00      | 2021/06/01<br>09:00       | 2021/06/01<br>08:15      |       |          |
| COC Number                        |       | 792128-121-01            | 792128-121-01             | 792128-121-01            |       |          |
|                                   | UNITS | BH-102 SS5<br>(3.1-3.7M) | BH-102 SS5D<br>(3.1-3.7M) | BH-102 SS6<br>(3.8-4.4M) | RDL   | QC Batch |
| Methyl Ethyl Ketone (2-Butanone)  | ug/g  | <0.50                    | <0.50                     | <0.50                    | 0.50  | 7392157  |
| Methyl Isobutyl Ketone            | ug/g  | <0.50                    | <0.50                     | <0.50                    | 0.50  | 7392157  |
| Methyl t-butyl ether (MTBE)       | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Styrene                           | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,1,1,2-Tetrachloroethane         | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,1,2,2-Tetrachloroethane         | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Tetrachloroethylene               | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Toluene                           | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| 1,1,1-Trichloroethane             | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| 1,1,2-Trichloroethane             | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Trichloroethylene                 | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Trichlorofluoromethane (FREON 11) | ug/g  | <0.050                   | <0.050                    | <0.050                   | 0.050 | 7392157  |
| Vinyl Chloride                    | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| p+m-Xylene                        | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| o-Xylene                          | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| Total Xylenes                     | ug/g  | <0.020                   | <0.020                    | <0.020                   | 0.020 | 7392157  |
| F1 (C6-C10)                       | ug/g  | <10                      | <10                       | <10                      | 10    | 7392157  |
| F1 (C6-C10) - BTEX                | ug/g  | <10                      | <10                       | <10                      | 10    | 7392157  |
| <b>F2-F4 Hydrocarbons</b>         |       |                          |                           |                          |       |          |
| F2 (C10-C16 Hydrocarbons)         | ug/g  | <10                      | <10                       | <10                      | 10    | 7393224  |
| F3 (C16-C34 Hydrocarbons)         | ug/g  | 51                       | <50                       | 68                       | 50    | 7393224  |
| F4 (C34-C50 Hydrocarbons)         | ug/g  | <50                      | <50                       | <50                      | 50    | 7393224  |
| Reached Baseline at C50           | ug/g  | Yes                      | Yes                       | Yes                      |       | 7393224  |
| <b>Surrogate Recovery (%)</b>     |       |                          |                           |                          |       |          |
| o-Terphenyl                       | %     | 84                       | 94                        | 91                       |       | 7393224  |
| 4-Bromofluorobenzene              | %     | 93                       | 92                        | 94                       |       | 7392157  |
| D10-o-Xylene                      | %     | 82                       | 81                        | 80                       |       | 7392157  |
| D4-1,2-Dichloroethane             | %     | 96                       | 95                        | 96                       |       | 7392157  |
| D8-Toluene                        | %     | 102                      | 103                       | 101                      |       | 7392157  |
| RDL = Reportable Detection Limit  |       |                          |                           |                          |       |          |
| QC Batch = Quality Control Batch  |       |                          |                           |                          |       |          |



BUREAU  
VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

|                                     |       |                          |       |          |
|-------------------------------------|-------|--------------------------|-------|----------|
| BV Labs ID                          |       | PT1259                   |       |          |
| Sampling Date                       |       | 2021/06/01<br>08:30      |       |          |
| COC Number                          |       | 792128-121-01            |       |          |
|                                     | UNITS | BH-102 SS7<br>(4.6-5.2M) | RDL   | QC Batch |
| <b>Inorganics</b>                   |       |                          |       |          |
| Moisture                            | %     | 16                       | 1.0   | 7393235  |
| <b>Calculated Parameters</b>        |       |                          |       |          |
| 1,3-Dichloropropene (cis+trans)     | ug/g  | <0.050                   | 0.050 | 7391450  |
| <b>Volatile Organics</b>            |       |                          |       |          |
| Acetone (2-Propanone)               | ug/g  | <0.50                    | 0.50  | 7392157  |
| Benzene                             | ug/g  | <0.020                   | 0.020 | 7392157  |
| Bromodichloromethane                | ug/g  | <0.050                   | 0.050 | 7392157  |
| Bromoform                           | ug/g  | <0.050                   | 0.050 | 7392157  |
| Bromomethane                        | ug/g  | <0.050                   | 0.050 | 7392157  |
| Carbon Tetrachloride                | ug/g  | <0.050                   | 0.050 | 7392157  |
| Chlorobenzene                       | ug/g  | <0.050                   | 0.050 | 7392157  |
| Chloroform                          | ug/g  | <0.050                   | 0.050 | 7392157  |
| Dibromochloromethane                | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichlorobenzene                 | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,3-Dichlorobenzene                 | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,4-Dichlorobenzene                 | ug/g  | <0.050                   | 0.050 | 7392157  |
| Dichlorodifluoromethane (FREON 12)  | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,1-Dichloroethane                  | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichloroethane                  | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,1-Dichloroethylene                | ug/g  | <0.050                   | 0.050 | 7392157  |
| cis-1,2-Dichloroethylene            | ug/g  | <0.050                   | 0.050 | 7392157  |
| trans-1,2-Dichloroethylene          | ug/g  | <0.050                   | 0.050 | 7392157  |
| 1,2-Dichloropropane                 | ug/g  | <0.050                   | 0.050 | 7392157  |
| cis-1,3-Dichloropropene             | ug/g  | <0.030                   | 0.030 | 7392157  |
| trans-1,3-Dichloropropene           | ug/g  | <0.040                   | 0.040 | 7392157  |
| Ethylbenzene                        | ug/g  | <0.020                   | 0.020 | 7392157  |
| Ethylene Dibromide                  | ug/g  | <0.050                   | 0.050 | 7392157  |
| Hexane                              | ug/g  | <0.050                   | 0.050 | 7392157  |
| Methylene Chloride(Dichloromethane) | ug/g  | <0.050                   | 0.050 | 7392157  |
| RDL = Reportable Detection Limit    |       |                          |       |          |
| QC Batch = Quality Control Batch    |       |                          |       |          |



BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

### O.REG 153 VOCs BY HS & F1-F4 (SOIL)

|  |              |                                  |            |                 |
|--|--------------|----------------------------------|------------|-----------------|
| BV Labs ID   |              | PT1259                           |            |                 |
| Sampling Date  |              | 2021/06/01<br>08:30              |            |                 |
| COC Number   |              | 792128-121-01                    |            |                 |
|  | <b>UNITS</b> | <b>BH-102 SS7<br/>(4.6-5.2M)</b> | <b>RDL</b> | <b>QC Batch</b> |
| Methyl Ethyl Ketone (2-Butanone)                                     | ug/g         | <0.50                            | 0.50       | 7392157         |
| Methyl Isobutyl Ketone   | ug/g         | <0.50                            | 0.50       | 7392157         |
| Methyl t-butyl ether (MTBE)  | ug/g         | <0.050                           | 0.050      | 7392157         |
| Styrene  | ug/g         | <0.050                           | 0.050      | 7392157         |
| 1,1,1,2-Tetrachloroethane  | ug/g         | <0.050                           | 0.050      | 7392157         |
| 1,1,2,2-Tetrachloroethane  | ug/g         | <0.050                           | 0.050      | 7392157         |
| Tetrachloroethylene  | ug/g         | <0.050                           | 0.050      | 7392157         |
| Toluene  | ug/g         | <0.020                           | 0.020      | 7392157         |
| 1,1,1-Trichloroethane  | ug/g         | <0.050                           | 0.050      | 7392157         |
| 1,1,2-Trichloroethane  | ug/g         | <0.050                           | 0.050      | 7392157         |
| Trichloroethylene  | ug/g         | <0.050                           | 0.050      | 7392157         |
| Trichlorofluoromethane (FREON 11)                                    | ug/g         | <0.050                           | 0.050      | 7392157         |
| Vinyl Chloride   | ug/g         | <0.020                           | 0.020      | 7392157         |
| p+m-Xylene   | ug/g         | <0.020                           | 0.020      | 7392157         |
| o-Xylene   | ug/g         | <0.020                           | 0.020      | 7392157         |
| Total Xylenes  | ug/g         | <0.020                           | 0.020      | 7392157         |
| F1 (C6-C10)  | ug/g         | <10                              | 10         | 7392157         |
| F1 (C6-C10) - BTEX   | ug/g         | <10                              | 10         | 7392157         |
| <b>F2-F4 Hydrocarbons</b>  |              |                                  |            |                 |
| F2 (C10-C16 Hydrocarbons)  | ug/g         | <10                              | 10         | 7393224         |
| F3 (C16-C34 Hydrocarbons)  | ug/g         | 80                               | 50         | 7393224         |
| F4 (C34-C50 Hydrocarbons)  | ug/g         | <50                              | 50         | 7393224         |
| Reached Baseline at C50  | ug/g         | Yes                              |            | 7393224         |
| <b>Surrogate Recovery (%)</b>  |              |                                  |            |                 |
| o-Terphenyl  | %            | 88                               |            | 7393224         |
| 4-Bromofluorobenzene   | %            | 93                               |            | 7392157         |
| D10-o-Xylene   | %            | 82                               |            | 7392157         |
| D4-1,2-Dichloroethane  | %            | 95                               |            | 7392157         |
| D8-Toluene   | %            | 101                              |            | 7392157         |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch |              |                                  |            |                 |



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VERITAS

BV Labs Job #: C1F3550

Report Date: 2021/06/11

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE, GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI234  
**Sample ID:** BH-3 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/27  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl2 EXTRACT                  | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |

**BV Labs ID:** PTI235  
**Sample ID:** BH-4 SS1 (0.0-0.6M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI236  
**Sample ID:** BH-4 SS1D (0.0-0.6M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI237  
**Sample ID:** BH-4 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl2 EXTRACT                  | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |



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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI238  
**Sample ID:** BH-4 SS3D (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7394948 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395627 | 2021/06/08 | 2021/06/08    | Prempal Bhatti            |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl <sub>2</sub> EXTRACT      | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |

**BV Labs ID:** PTI238 Dup  
**Sample ID:** BH-4 SS3D (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                 | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst        |
|----------------------------------|-----------------|---------|------------|---------------|----------------|
| Acid Extractable Metals by ICPMS | ICP/MS          | 7395627 | 2021/06/08 | 2021/06/08    | Prempal Bhatti |

**BV Labs ID:** PTI239  
**Sample ID:** BH-7 SS1 (0.0-0.6M)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI240  
**Sample ID:** BH-7 SS5 (3.1-3.7)  
**Matrix:** Soil

**Collected:** 2021/05/28  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl <sub>2</sub> EXTRACT      | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |



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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI241  
**Sample ID:** BH-12 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/05/27  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI242  
**Sample ID:** BH-12 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/27  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7394948 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl <sub>2</sub> EXTRACT      | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |

**BV Labs ID:** PTI243  
**Sample ID:** BH-14 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/05/26  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI251  
**Sample ID:** BH-14 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/26  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7394948 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl <sub>2</sub> EXTRACT      | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |



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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI252  
**Sample ID:** BH-16 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/05/31  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                 | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                         | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| Polychlorinated Biphenyl in Soil | GC/ECD          | 7394457 | 2021/06/07 | 2021/06/08    | Svitlana Shaula     |

**BV Labs ID:** PTI253  
**Sample ID:** BH-16 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/05/31  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesco   |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |

**BV Labs ID:** PTI254  
**Sample ID:** BH-101 SS1 (0.0-0.6M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl2 EXTRACT                  | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |

**BV Labs ID:** PTI255  
**Sample ID:** BH-101 SS4 (2.3-2.7M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesco   |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |

**BV Labs ID:** PTI256  
**Sample ID:** BH-102 SS5 (3.1-3.7M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7391450 | N/A        | 2021/06/11    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Soil   | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                               | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7392157 | N/A        | 2021/06/11    | Manpreet Sarao       |



BUREAU  
VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI257  
**Sample ID:** BH-102 SS5D (3.1-3.7M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7391450 | N/A        | 2021/06/11    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Soil   | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                               | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7392157 | N/A        | 2021/06/11    | Manpreet Sarao       |

**BV Labs ID:** PTI258  
**Sample ID:** BH-102 SS6 (3.8-4.4M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7391450 | N/A        | 2021/06/11    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Soil   | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                               | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7392157 | N/A        | 2021/06/11    | Manpreet Sarao       |

**BV Labs ID:** PTI259  
**Sample ID:** BH-102 SS7 (4.6-5.2M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7391450 | N/A        | 2021/06/11    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Soil   | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                               | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7392157 | N/A        | 2021/06/11    | Manpreet Sarao       |

**BV Labs ID:** PTI260  
**Sample ID:** BH-103 SS6 (3.8-4.4M)  
**Matrix:** Soil

**Collected:** 2021/06/01  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesu    |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |

**BV Labs ID:** PTI261  
**Sample ID:** BH-104 SS4 (2.3-2.7M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesu    |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |





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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI261 Dup  
**Sample ID:** BH-104 SS4 (2.3-2.7M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst             |
|------------------|-----------------|---------|-----------|---------------|---------------------|
| Moisture         | BAL             | 7393235 | N/A       | 2021/06/07    | Gurpreet Kaur (ONT) |

**BV Labs ID:** PTI262  
**Sample ID:** BH-105 SS1 (0.0-0.6M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|---------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                        | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| OC Pesticides (Selected) & PCB  | GC/ECD          | 7395123 | 2021/06/08 | 2021/06/09    | Li Peng             |
| OC Pesticides Summed Parameters | CALC            | 7391451 | N/A        | 2021/06/08    | Automated Statchk   |

**BV Labs ID:** PTI263  
**Sample ID:** BH-105 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst                   |
|-----------------------------------|-----------------|---------|------------|---------------|---------------------------|
| Hot Water Extractable Boron       | ICP             | 7395236 | 2021/06/08 | 2021/06/08    | Medhat Nasr               |
| Free (WAD) Cyanide                | TECH            | 7394587 | 2021/06/08 | 2021/06/08    | Aditiben Patel            |
| Conductivity                      | AT              | 7397185 | 2021/06/09 | 2021/06/09    | Khushbu Vijay kumar Patel |
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila           |
| Acid Extractable Metals by ICPMS  | ICP/MS          | 7395393 | 2021/06/08 | 2021/06/09    | Daniel Teclu              |
| Moisture                          | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)       |
| pH CaCl2 EXTRACT                  | AT              | 7397483 | 2021/06/09 | 2021/06/09    | Neil Dassanayake          |
| Sodium Adsorption Ratio (SAR)     | CALC/MET        | 7391452 | N/A        | 2021/06/10    | Automated Statchk         |

**BV Labs ID:** PTI263 Dup  
**Sample ID:** BH-105 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                  | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst         |
|-----------------------------------|-----------------|---------|------------|---------------|-----------------|
| Hexavalent Chromium in Soil by IC | IC/SPEC         | 7395470 | 2021/06/08 | 2021/06/09    | Violeta Porcila |

**BV Labs ID:** PTI264  
**Sample ID:** BH-106 SS4 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesu    |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |



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VERITAS

BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTI265  
**Sample ID:** BH-107 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                 | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                         | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| Polychlorinated Biphenyl in Soil | GC/ECD          | 7394457 | 2021/06/07 | 2021/06/08    | Svitlana Shaula     |

**BV Labs ID:** PTI266  
**Sample ID:** BH-107 SS2D (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                 | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst             |
|----------------------------------|-----------------|---------|------------|---------------|---------------------|
| Moisture                         | BAL             | 7393020 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT) |
| Polychlorinated Biphenyl in Soil | GC/ECD          | 7394457 | 2021/06/07 | 2021/06/08    | Svitlana Shaula     |

**BV Labs ID:** PTI267  
**Sample ID:** BH-107 SS3 (1.5-2.1M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesco   |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |

**BV Labs ID:** PTI268  
**Sample ID:** BH-108 SS2 (0.8-1.4M)  
**Matrix:** Soil

**Collected:** 2021/06/02  
**Shipped:**  
**Received:** 2021/06/04

| Test Description                        | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|---|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD       | 7393649 | N/A        | 2021/06/08    | Domnica Andronesco   |
| Petroleum Hydrocarbons F2-F4 in Soil    | GC/FID          | 7393224 | 2021/06/07 | 2021/06/08    | Jeevaraj Jeevaratnam |
| Moisture                                | BAL             | 7393235 | N/A        | 2021/06/07    | Gurpreet Kaur (ONT)  |



### GENERAL COMMENTS

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

|           |       |
|-----------|-------|
| Package 1 | 1.3°C |
|-----------|-------|

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

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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE, GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter                    | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                              |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7392157  | 4-Bromofluorobenzene         | 2021/06/10 | 97           | 60 - 140  | 98           | 60 - 140  | 94           | %     |           |           |
| 7392157  | D10-o-Xylene                 | 2021/06/10 | 82           | 60 - 130  | 95           | 60 - 130  | 81           | %     |           |           |
| 7392157  | D4-1,2-Dichloroethane        | 2021/06/10 | 96           | 60 - 140  | 98           | 60 - 140  | 96           | %     |           |           |
| 7392157  | D8-Toluene                   | 2021/06/10 | 103          | 60 - 140  | 105          | 60 - 140  | 102          | %     |           |           |
| 7393224  | o-Terphenyl                  | 2021/06/08 | 84           | 60 - 130  | 81           | 60 - 130  | 89           | %     |           |           |
| 7393649  | 1,4-Difluorobenzene          | 2021/06/07 | 93           | 60 - 140  | 92           | 60 - 140  | 96           | %     |           |           |
| 7393649  | 4-Bromofluorobenzene         | 2021/06/07 | 102          | 60 - 140  | 103          | 60 - 140  | 99           | %     |           |           |
| 7393649  | D10-o-Xylene                 | 2021/06/07 | 104          | 60 - 140  | 102          | 60 - 140  | 96           | %     |           |           |
| 7393649  | D4-1,2-Dichloroethane        | 2021/06/07 | 110          | 60 - 140  | 110          | 60 - 140  | 117          | %     |           |           |
| 7394457  | Decachlorobiphenyl           | 2021/06/08 | 106          | 60 - 130  | 101          | 60 - 130  | 94           | %     |           |           |
| 7395123  | 2,4,5,6-Tetrachloro-m-xylene | 2021/06/08 | 91           | 50 - 130  | 86           | 50 - 130  | 90           | %     |           |           |
| 7395123  | Decachlorobiphenyl           | 2021/06/08 | 113          | 50 - 130  | 114          | 50 - 130  | 108          | %     |           |           |
| 7392157  | 1,1,1,2-Tetrachloroethane    | 2021/06/10 | 94           | 60 - 140  | 102          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,1,1-Trichloroethane        | 2021/06/10 | 92           | 60 - 140  | 94           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,1,2,2-Tetrachloroethane    | 2021/06/10 | 93           | 60 - 140  | 104          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,1,2-Trichloroethane        | 2021/06/10 | 93           | 60 - 140  | 103          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,1-Dichloroethane           | 2021/06/10 | 94           | 60 - 140  | 97           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,1-Dichloroethylene         | 2021/06/10 | 91           | 60 - 140  | 92           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,2-Dichlorobenzene          | 2021/06/10 | 94           | 60 - 140  | 103          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,2-Dichloroethane           | 2021/06/10 | 86           | 60 - 140  | 92           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,2-Dichloropropane          | 2021/06/10 | 97           | 60 - 140  | 103          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,3-Dichlorobenzene          | 2021/06/10 | 97           | 60 - 140  | 105          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | 1,4-Dichlorobenzene          | 2021/06/10 | 116          | 60 - 140  | 125          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Acetone (2-Propanone)        | 2021/06/10 | 86           | 60 - 140  | 96           | 60 - 140  | <0.50        | ug/g  | NC        | 50        |
| 7392157  | Benzene                      | 2021/06/10 | 93           | 60 - 140  | 96           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7392157  | Bromodichloromethane         | 2021/06/10 | 92           | 60 - 140  | 99           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Bromoform                    | 2021/06/10 | 91           | 60 - 140  | 102          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Bromomethane                 | 2021/06/10 | 92           | 60 - 140  | 95           | 60 - 140  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Carbon Tetrachloride         | 2021/06/10 | 87           | 60 - 140  | 89           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Chlorobenzene                | 2021/06/10 | 93           | 60 - 140  | 100          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |

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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7392157  | Chloroform                          | 2021/06/10 | 91           | 60 - 140  | 95           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | cis-1,2-Dichloroethylene            | 2021/06/10 | 95           | 60 - 140  | 99           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | cis-1,3-Dichloropropene             | 2021/06/10 | 88           | 60 - 140  | 95           | 60 - 130  | <0.030       | ug/g  | NC        | 50        |
| 7392157  | Dibromochloromethane                | 2021/06/10 | 90           | 60 - 140  | 100          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Dichlorodifluoromethane (FREON 12)  | 2021/06/10 | 90           | 60 - 140  | 91           | 60 - 140  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Ethylbenzene                        | 2021/06/10 | 88           | 60 - 140  | 93           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7392157  | Ethylene Dibromide                  | 2021/06/10 | 92           | 60 - 140  | 102          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | F1 (C6-C10) - BTEX                  | 2021/06/10 |              |           |              |           | <10          | ug/g  | NC        | 30        |
| 7392157  | F1 (C6-C10)                         | 2021/06/10 | 102          | 60 - 140  | 94           | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 7392157  | Hexane                              | 2021/06/10 | 98           | 60 - 140  | 98           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Methyl Ethyl Ketone (2-Butanone)    | 2021/06/10 | 96           | 60 - 140  | 108          | 60 - 140  | <0.50        | ug/g  | NC        | 50        |
| 7392157  | Methyl Isobutyl Ketone              | 2021/06/10 | 88           | 60 - 140  | 100          | 60 - 130  | <0.50        | ug/g  | NC        | 50        |
| 7392157  | Methyl t-butyl ether (MTBE)         | 2021/06/10 | 86           | 60 - 140  | 91           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Methylene Chloride(Dichloromethane) | 2021/06/10 | 96           | 60 - 140  | 100          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | o-Xylene                            | 2021/06/10 | 88           | 60 - 140  | 94           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7392157  | p+m-Xylene                          | 2021/06/10 | 90           | 60 - 140  | 96           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7392157  | Styrene                             | 2021/06/10 | 98           | 60 - 140  | 107          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Tetrachloroethylene                 | 2021/06/10 | 90           | 60 - 140  | 94           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Toluene                             | 2021/06/10 | 89           | 60 - 140  | 93           | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7392157  | Total Xylenes                       | 2021/06/10 |              |           |              |           | <0.020       | ug/g  | NC        | 50        |
| 7392157  | trans-1,2-Dichloroethylene          | 2021/06/10 | 96           | 60 - 140  | 99           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | trans-1,3-Dichloropropene           | 2021/06/10 | 95           | 60 - 140  | 105          | 60 - 130  | <0.040       | ug/g  | NC        | 50        |
| 7392157  | Trichloroethylene                   | 2021/06/10 | 99           | 60 - 140  | 103          | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Trichlorofluoromethane (FREON 11)   | 2021/06/10 | 87           | 60 - 140  | 88           | 60 - 130  | <0.050       | ug/g  | NC        | 50        |
| 7392157  | Vinyl Chloride                      | 2021/06/10 | 102          | 60 - 140  | 103          | 60 - 130  | <0.020       | ug/g  | NC        | 50        |
| 7393020  | Moisture                            | 2021/06/07 |              |           |              |           |              |       | 3.2       | 20        |
| 7393224  | F2 (C10-C16 Hydrocarbons)           | 2021/06/08 | 99           | 50 - 130  | 95           | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 7393224  | F3 (C16-C34 Hydrocarbons)           | 2021/06/08 | 98           | 50 - 130  | 98           | 80 - 120  | <50          | ug/g  | 0.15      | 30        |
| 7393224  | F4 (C34-C50 Hydrocarbons)           | 2021/06/08 | 101          | 50 - 130  | 98           | 80 - 120  | <50          | ug/g  | NC        | 30        |
| 7393235  | Moisture                            | 2021/06/07 |              |           |              |           |              |       | 0         | 20        |



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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter            | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                      |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7393649  | Benzene              | 2021/06/07 | 114          | 50 - 140  | 105          | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 7393649  | Ethylbenzene         | 2021/06/07 | 121          | 50 - 140  | 112          | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 7393649  | F1 (C6-C10) - BTEX   | 2021/06/07 |              |           |              |           | <10          | ug/g  | NC        | 30        |
| 7393649  | F1 (C6-C10)          | 2021/06/07 | 100          | 60 - 140  | 93           | 80 - 120  | <10          | ug/g  | NC        | 30        |
| 7393649  | o-Xylene             | 2021/06/07 | 119          | 50 - 140  | 110          | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 7393649  | p+m-Xylene           | 2021/06/07 | 117          | 50 - 140  | 108          | 50 - 140  | <0.040       | ug/g  | NC        | 50        |
| 7393649  | Toluene              | 2021/06/07 | 111          | 50 - 140  | 103          | 50 - 140  | <0.020       | ug/g  | NC        | 50        |
| 7393649  | Total Xylenes        | 2021/06/07 |              |           |              |           | <0.040       | ug/g  | NC        | 50        |
| 7394457  | Aroclor 1242         | 2021/06/08 |              |           |              |           | <0.010       | ug/g  | NC        | 50        |
| 7394457  | Aroclor 1248         | 2021/06/08 |              |           |              |           | <0.010       | ug/g  | NC        | 50        |
| 7394457  | Aroclor 1254         | 2021/06/08 |              |           |              |           | <0.010       | ug/g  | NC        | 50        |
| 7394457  | Aroclor 1260         | 2021/06/08 | 124          | 30 - 130  | 116          | 30 - 130  | <0.010       | ug/g  | NC        | 50        |
| 7394457  | Total PCB            | 2021/06/08 | 124          | 30 - 130  | 116          | 30 - 130  | <0.010       | ug/g  | NC        | 50        |
| 7394587  | WAD Cyanide (Free)   | 2021/06/08 | 68 (1)       | 75 - 125  | 94           | 80 - 120  | <0.01        | ug/g  | NC        | 35        |
| 7394948  | Chromium (VI)        | 2021/06/09 | 77           | 70 - 130  | 97           | 80 - 120  | <0.18        | ug/g  | NC        | 35        |
| 7395123  | a-Chlordane          | 2021/06/09 | 91           | 50 - 130  | 87           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Aldrin               | 2021/06/09 | 83           | 50 - 130  | 80           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Aroclor 1242         | 2021/06/09 |              |           |              |           | <0.015       | ug/g  | NC        | 40        |
| 7395123  | Aroclor 1248         | 2021/06/09 |              |           |              |           | <0.015       | ug/g  | NC        | 40        |
| 7395123  | Aroclor 1254         | 2021/06/09 |              |           |              |           | <0.015       | ug/g  | NC        | 40        |
| 7395123  | Aroclor 1260         | 2021/06/09 |              |           |              |           | <0.015       | ug/g  | NC        | 40        |
| 7395123  | Dieldrin             | 2021/06/09 | 97           | 50 - 130  | 110          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Endosulfan I (alpha) | 2021/06/09 | 124          | 50 - 130  | 87           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Endosulfan II (beta) | 2021/06/09 | 116          | 50 - 130  | 102          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Endrin               | 2021/06/09 | 109          | 50 - 130  | 102          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | g-Chlordane          | 2021/06/09 | 95           | 50 - 130  | 88           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Heptachlor epoxide   | 2021/06/09 | 115          | 50 - 130  | 112          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Heptachlor           | 2021/06/09 | 81           | 50 - 130  | 80           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Hexachlorobenzene    | 2021/06/09 | 90           | 50 - 130  | 96           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Hexachlorobutadiene  | 2021/06/09 | 100          | 50 - 130  | 93           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |

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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter                        | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                  |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7395123  | Hexachloroethane                 | 2021/06/09 | 82           | 50 - 130  | 84           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Lindane                          | 2021/06/09 | 81           | 50 - 130  | 78           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | Methoxychlor                     | 2021/06/09 | 119          | 50 - 130  | 127          | 50 - 130  | <0.0050      | ug/g  | NC        | 40        |
| 7395123  | o,p-DDD                          | 2021/06/09 | 104          | 50 - 130  | 98           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | o,p-DDE                          | 2021/06/09 | 82           | 50 - 130  | 85           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | o,p-DDT                          | 2021/06/09 | 96           | 50 - 130  | 105          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | p,p-DDD                          | 2021/06/09 | 97           | 50 - 130  | 97           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | p,p-DDE                          | 2021/06/09 | 88           | 50 - 130  | 84           | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395123  | p,p-DDT                          | 2021/06/09 | 110          | 50 - 130  | 104          | 50 - 130  | <0.0020      | ug/g  | NC        | 40        |
| 7395236  | Hot Water Ext. Boron (B)         | 2021/06/08 | 102          | 75 - 125  | 99           | 75 - 125  | <0.050       | ug/g  | 8.2       | 40        |
| 7395393  | Acid Extractable Antimony (Sb)   | 2021/06/09 | 94           | 75 - 125  | 104          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Arsenic (As)    | 2021/06/09 | 97           | 75 - 125  | 101          | 80 - 120  | <1.0         | ug/g  | 7.6       | 30        |
| 7395393  | Acid Extractable Barium (Ba)     | 2021/06/09 | NC           | 75 - 125  | 105          | 80 - 120  | <0.50        | ug/g  | 2.6       | 30        |
| 7395393  | Acid Extractable Beryllium (Be)  | 2021/06/09 | 98           | 75 - 125  | 95           | 80 - 120  | <0.20        | ug/g  | 4.3       | 30        |
| 7395393  | Acid Extractable Boron (B)       | 2021/06/09 | 95           | 75 - 125  | 96           | 80 - 120  | <5.0         | ug/g  | 3.5       | 30        |
| 7395393  | Acid Extractable Cadmium (Cd)    | 2021/06/09 | 96           | 75 - 125  | 98           | 80 - 120  | <0.10        | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Chromium (Cr)   | 2021/06/09 | 95           | 75 - 125  | 102          | 80 - 120  | <1.0         | ug/g  | 0.57      | 30        |
| 7395393  | Acid Extractable Cobalt (Co)     | 2021/06/09 | 93           | 75 - 125  | 99           | 80 - 120  | <0.10        | ug/g  | 2.1       | 30        |
| 7395393  | Acid Extractable Copper (Cu)     | 2021/06/09 | 93           | 75 - 125  | 98           | 80 - 120  | <0.50        | ug/g  | 5.3       | 30        |
| 7395393  | Acid Extractable Lead (Pb)       | 2021/06/09 | 93           | 75 - 125  | 100          | 80 - 120  | <1.0         | ug/g  | 1.8       | 30        |
| 7395393  | Acid Extractable Mercury (Hg)    | 2021/06/09 | 82           | 75 - 125  | 84           | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Molybdenum (Mo) | 2021/06/09 | 98           | 75 - 125  | 101          | 80 - 120  | <0.50        | ug/g  | 9.3       | 30        |
| 7395393  | Acid Extractable Nickel (Ni)     | 2021/06/09 | 93           | 75 - 125  | 102          | 80 - 120  | <0.50        | ug/g  | 6.6       | 30        |
| 7395393  | Acid Extractable Selenium (Se)   | 2021/06/09 | 97           | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Silver (Ag)     | 2021/06/09 | 94           | 75 - 125  | 100          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Thallium (Tl)   | 2021/06/09 | 95           | 75 - 125  | 102          | 80 - 120  | <0.050       | ug/g  | NC        | 30        |
| 7395393  | Acid Extractable Uranium (U)     | 2021/06/09 | 97           | 75 - 125  | 103          | 80 - 120  | <0.050       | ug/g  | 6.9       | 30        |
| 7395393  | Acid Extractable Vanadium (V)    | 2021/06/09 | 101          | 75 - 125  | 102          | 80 - 120  | <5.0         | ug/g  | 4.9       | 30        |
| 7395393  | Acid Extractable Zinc (Zn)       | 2021/06/09 | 104          | 75 - 125  | 93           | 80 - 120  | <5.0         | ug/g  | 0.85      | 30        |
| 7395470  | Chromium (VI)                    | 2021/06/09 | 37 (2)       | 70 - 130  | 98           | 80 - 120  | <0.18        | ug/g  | NC        | 35        |



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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter                        | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                  |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7395627  | Acid Extractable Antimony (Sb)   | 2021/06/08 | 102          | 75 - 125  | 102          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 7395627  | Acid Extractable Arsenic (As)    | 2021/06/08 | 104          | 75 - 125  | 102          | 80 - 120  | <1.0         | ug/g  | 2.4       | 30        |
| 7395627  | Acid Extractable Barium (Ba)     | 2021/06/08 | 103          | 75 - 125  | 101          | 80 - 120  | <0.50        | ug/g  | 0.96      | 30        |
| 7395627  | Acid Extractable Beryllium (Be)  | 2021/06/08 | 102          | 75 - 125  | 99           | 80 - 120  | <0.20        | ug/g  | 6.2       | 30        |
| 7395627  | Acid Extractable Boron (B)       | 2021/06/08 | 97           | 75 - 125  | 94           | 80 - 120  | <5.0         | ug/g  | NC        | 30        |
| 7395627  | Acid Extractable Cadmium (Cd)    | 2021/06/08 | 104          | 75 - 125  | 100          | 80 - 120  | <0.10        | ug/g  | 0.17      | 30        |
| 7395627  | Acid Extractable Chromium (Cr)   | 2021/06/08 | 98           | 75 - 125  | 99           | 80 - 120  | <1.0         | ug/g  | 1.5       | 30        |
| 7395627  | Acid Extractable Cobalt (Co)     | 2021/06/08 | 103          | 75 - 125  | 100          | 80 - 120  | <0.10        | ug/g  | 0.59      | 30        |
| 7395627  | Acid Extractable Copper (Cu)     | 2021/06/08 | 102          | 75 - 125  | 100          | 80 - 120  | <0.50        | ug/g  | 3.2       | 30        |
| 7395627  | Acid Extractable Lead (Pb)       | 2021/06/08 | 99           | 75 - 125  | 100          | 80 - 120  | <1.0         | ug/g  | 2.6       | 30        |
| 7395627  | Acid Extractable Mercury (Hg)    | 2021/06/08 | 94           | 75 - 125  | 94           | 80 - 120  | <0.050       | ug/g  | 1.2       | 30        |
| 7395627  | Acid Extractable Molybdenum (Mo) | 2021/06/08 | 104          | 75 - 125  | 99           | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 7395627  | Acid Extractable Nickel (Ni)     | 2021/06/08 | 103          | 75 - 125  | 103          | 80 - 120  | <0.50        | ug/g  | 0.76      | 30        |
| 7395627  | Acid Extractable Selenium (Se)   | 2021/06/08 | 104          | 75 - 125  | 103          | 80 - 120  | <0.50        | ug/g  | NC        | 30        |
| 7395627  | Acid Extractable Silver (Ag)     | 2021/06/08 | 108          | 75 - 125  | 104          | 80 - 120  | <0.20        | ug/g  | NC        | 30        |
| 7395627  | Acid Extractable Thallium (Tl)   | 2021/06/08 | 102          | 75 - 125  | 102          | 80 - 120  | <0.050       | ug/g  | 1.6       | 30        |
| 7395627  | Acid Extractable Uranium (U)     | 2021/06/08 | 104          | 75 - 125  | 102          | 80 - 120  | <0.050       | ug/g  | 4.6       | 30        |
| 7395627  | Acid Extractable Vanadium (V)    | 2021/06/08 | 105          | 75 - 125  | 101          | 80 - 120  | <5.0         | ug/g  | 0.96      | 30        |
| 7395627  | Acid Extractable Zinc (Zn)       | 2021/06/08 | 103          | 75 - 125  | 99           | 80 - 120  | <5.0         | ug/g  | 0.60      | 30        |
| 7397185  | Conductivity                     | 2021/06/09 |              |           | 100          | 90 - 110  | <0.002       | mS/cm | 1.5       | 10        |





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BV Labs Job #: C1F3550

Report Date: 2021/06/11

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GROOMLEY

Your P.O. #: MRK-GEO

Sampler Initials: AS

| QC Batch | Parameter                         | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                   |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7397483  | Available (CaCl <sub>2</sub> ) pH | 2021/06/09 |              |           | 100          | 97 - 103  |              |       | 0.044     | N/A       |

N/A = Not Applicable

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

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

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

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

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

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

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

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.



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BV Labs Job #: C1F3550  
Report Date: 2021/06/11

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GROOMLEY  
Your P.O. #: MRK-GEO  
Sampler Initials: AS

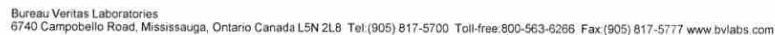
### VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist



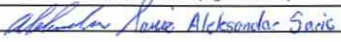
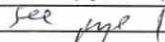
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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Canada (2019) Inc.

BC drive

## CHAIN OF CUSTODY RECORD

|  |                      |  |                 |   |        |  |   |
|--|----------------------|--|-----------------|---|--------|--|---|
| <b>REPORT TO:</b><br>Company Name: <b>exp Services Inc</b><br>Attention: <b>Simon Lan</b><br>Address: <b>220 Commerce Valley Dr W Suite 500</b><br><b>Markham ON L3T 0A8</b><br>Tel: <b>(905) 695-3217</b> Fax: _____<br>Email: <b>simon.lan@exp.com</b>   |                      | <b>REPORT TO:</b><br>Company Name: <b>EXP Services Inc.</b><br>Attention: <b>Victor Tam So Ming Chiang; Simon Lan</b><br>Address: <b>Aleksandar Sario</b><br><b>aleksandar.sario@exp.com</b><br>Tel: <b>509.695.3217</b> Fax: _____<br>Email: <b>victor.tam@exp.com, simon.lan@exp.com</b>   |                 | <b>PROJECT INFORMATION:</b><br>Quotation #: <b>B91718</b><br>P.O. #: <b>MRK-GEO</b><br>Project: <b>BRM-00609060-A0-(G200) BRM-21010854-B0</b><br>Project Name: <b>15450 Woodbine Avenue, Gormley, Ontario</b><br>Site #: _____<br>Sampled By: <b>AS: AG</b> |        | <b>Laboratory Use Only:</b><br>BV Labs Job #: _____<br>Bottle Order #: <br>792128<br>Project Manager: _____<br><br>C#792128-121-01<br>Christine Gipton |   |
| <b>MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY</b>   |                      |  |                 |   |        | <b>Turnaround Time (TAT) Required:</b><br>Please provide advance notice for rush projects  |   |
| <b>Regulation 153 (2011)</b><br><input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine<br><input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse<br><input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input checked="" type="checkbox"/> For RSC<br><input type="checkbox"/> Table _____  |                      | <b>Other Regulations</b><br><input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw<br><input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw<br><input type="checkbox"/> MISA Municipality _____<br><input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____<br><input type="checkbox"/> Other _____ |                 | <b>Special Instructions</b><br><br><br><br>   |        | <b>Regular (Standard) TAT:</b><br>(will be applied if Rush TAT is not specified):<br>Standard TAT = 5-7 Working days for most tests.<br>Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.  |   |
| <b>Include Criteria on Certificate of Analysis (Y/N)?</b> _____  |                      |  |                 |   |        | <b>Job Specific Rush TAT (if applies to entire submission)</b><br>Date Required: _____ Time Required: _____<br>Rush Confirmation Number: _____ (call lab for #)  |   |
|  | Sample Barcode Label | Sample (Location) Identification   | Date Sampled    | Time Sampled  | Matrix | ANALYSIS REQUESTED (PLEASE BE SPECIFIC)<br>Metals / Hg / Cr / V<br>Metals + Inorganics<br>PCBs<br>OC Pesticides<br>HTEX + PHCs (F <sub>1</sub> -F <sub>4</sub> )<br>VOCs   |   |
| 1  |                      | BH-14 SS3 (1.5-2.1m)   | 2021/05/26      |   | Soil   | ✓  |   |
| 2  |                      | BH-16 SS2 (0.8-1.4m)   | 2021/05/31      |   |        | ✓  |   |
| 3  |                      | BH-16 SS3 (1.5-2.1m)   | ↓               |   |        |  | ✓   |
| 4  |                      | BH-101 SS1 (0.0-0.6m)  | 2021/06/01      | 12:15pm   |        | ✓  |   |
| 5  |                      | BH-101 SS4 (2.3-2.7m)  |                 | 12:40pm   |        |  | ✓   |
| 6  |                      | BH-102 SS5 (3.1-3.7m)  |                 | 9:00am  |        | ✓  | ✓   |
| 7  |                      | BH-102 SS5B (3.1-3.7m)   |                 | 9:00am  |        | ✓  | ✓   |
| 8  |                      | BH-102 SS6 (3.8-4.4m)  |                 | 9:15am  |        | ✓  | ✓   |
| 9  |                      | BH-102 SS7 (4.6-5.2m)  |                 | 9:30am  |        | ✓  | ✓   |
| 10   |                      | BH-103 SS6 (3.8-4.4m)  | ✓               | 2:00pm  | ✓      | ✓  | ✓   |
| * RELINQUISHED BY: (Signature/Print)<br>  |                      | Date: (YY/MM/DD)<br>2021/06/04   | Time<br>11:30am | RECEIVED BY: (Signature/Print)<br>   |        | Date: (YY/MM/DD)<br><br>   | Time<br><br>  |
|  |                      |  |                 |   |        | # jars used and not submitted<br><br>  | <b>Laboratory Use Only</b><br>Time Sensitive<br>Temperature (°C) on Reel<br>Custody Seal<br>Present<br>Intact |
| * UNLESS OTHERWISE AGREED IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.<br>** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.<br>*** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS. |                      |  |                 |   |        |  |   |

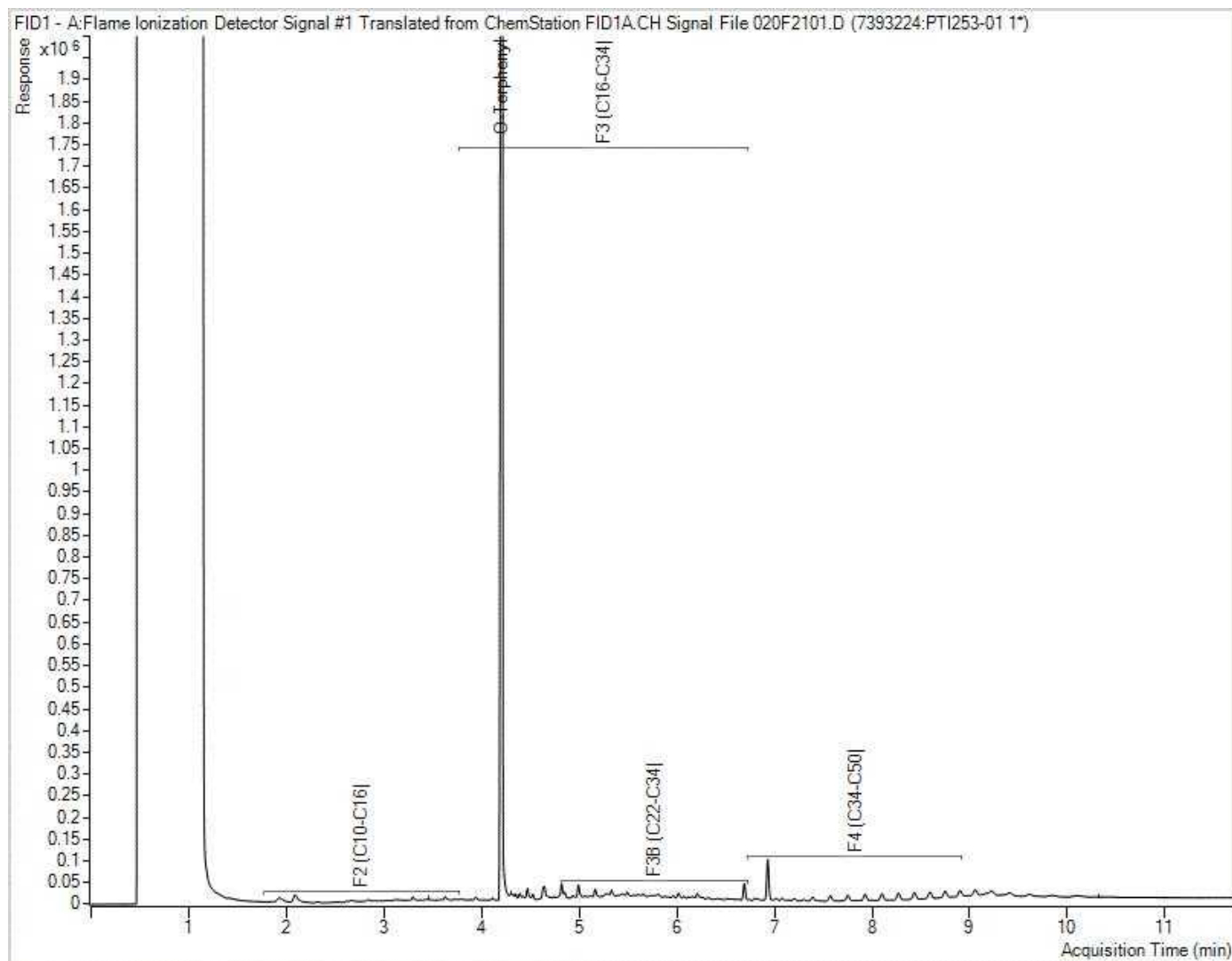


Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI253

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-16 SS3 (1.5-2.1M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

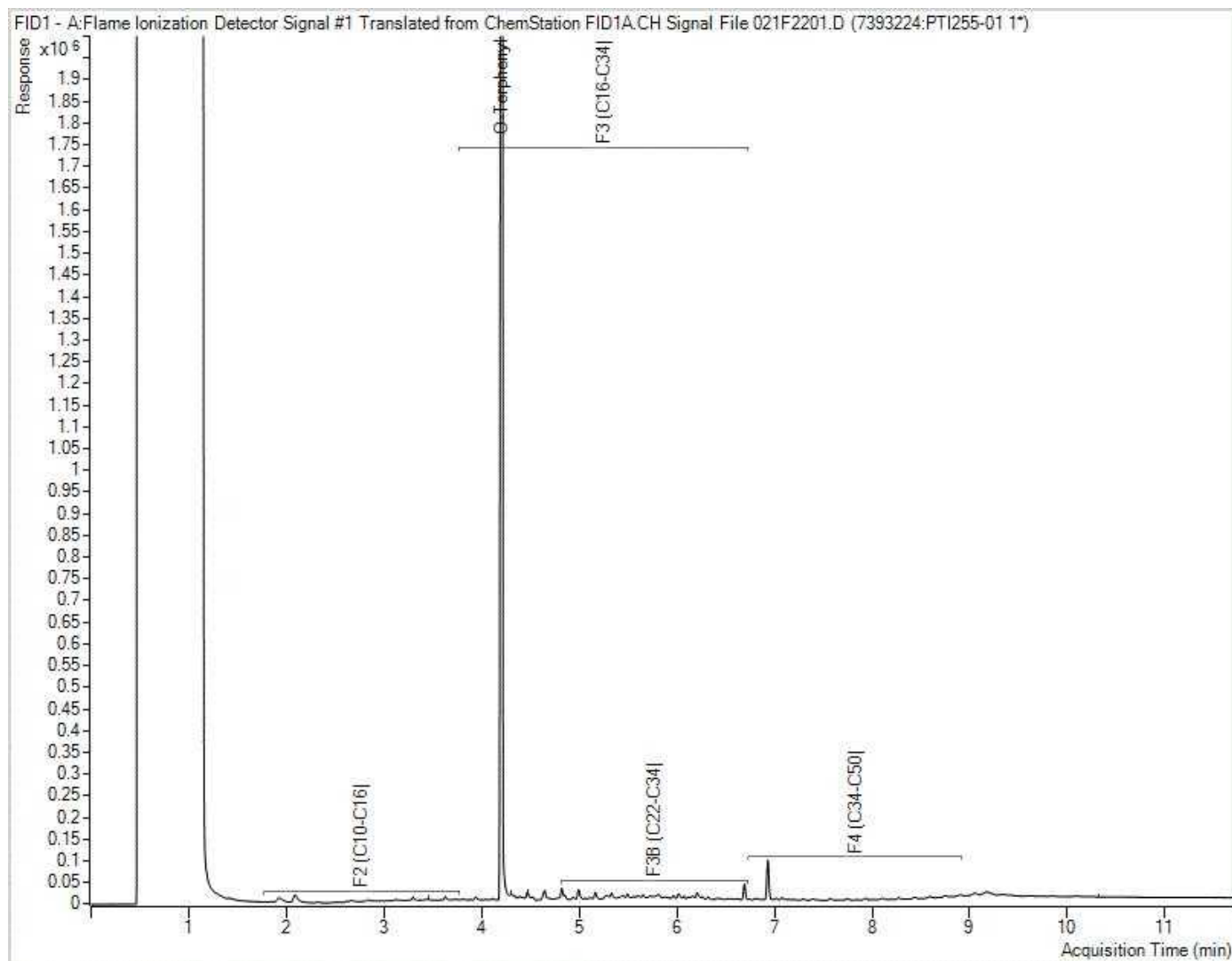


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI255

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-101 SS4 (2.3-2.7M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

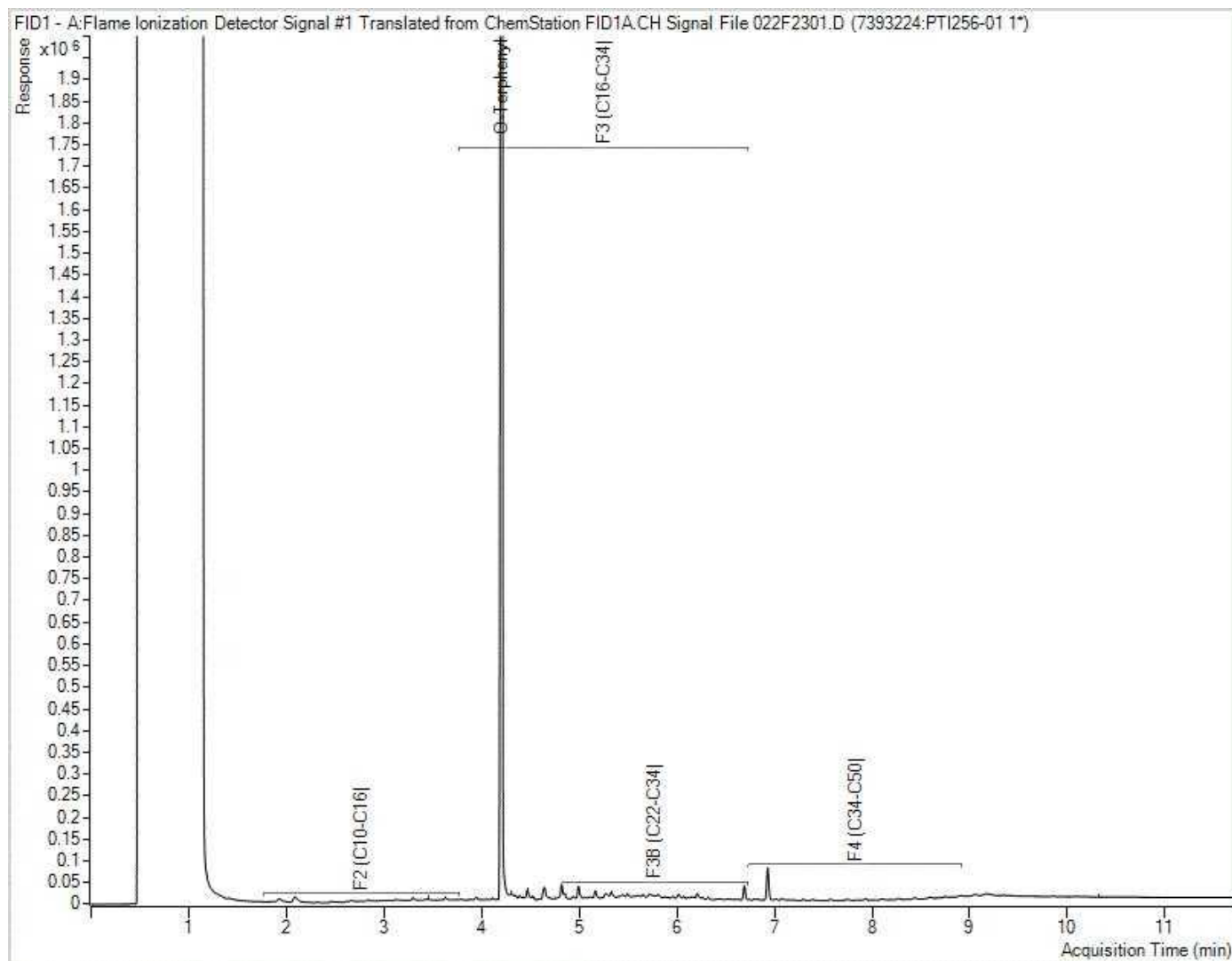


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI256

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-102 SS5 (3.1-3.7M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**



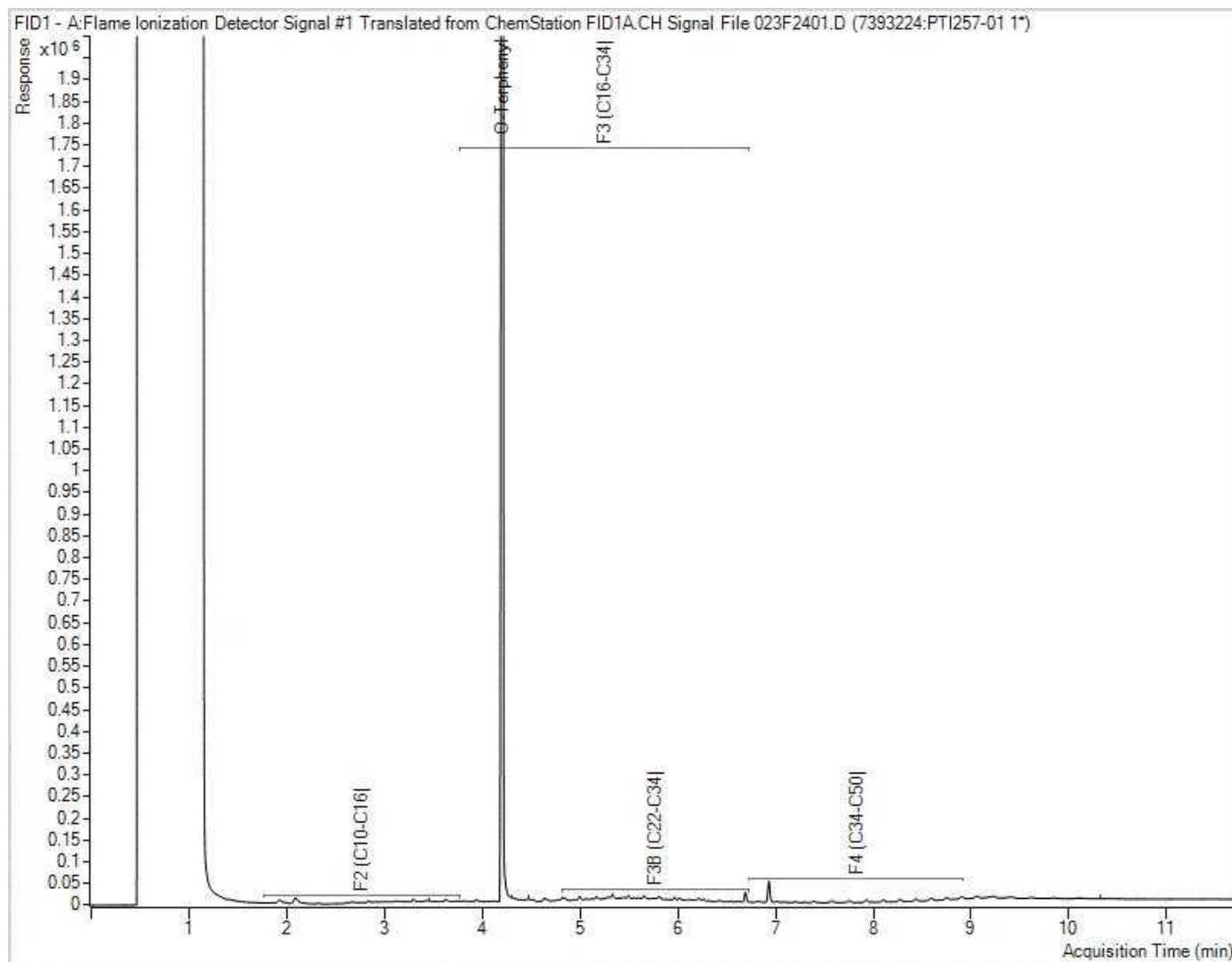
**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI257

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-102 SS5D (3.1-3.7M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

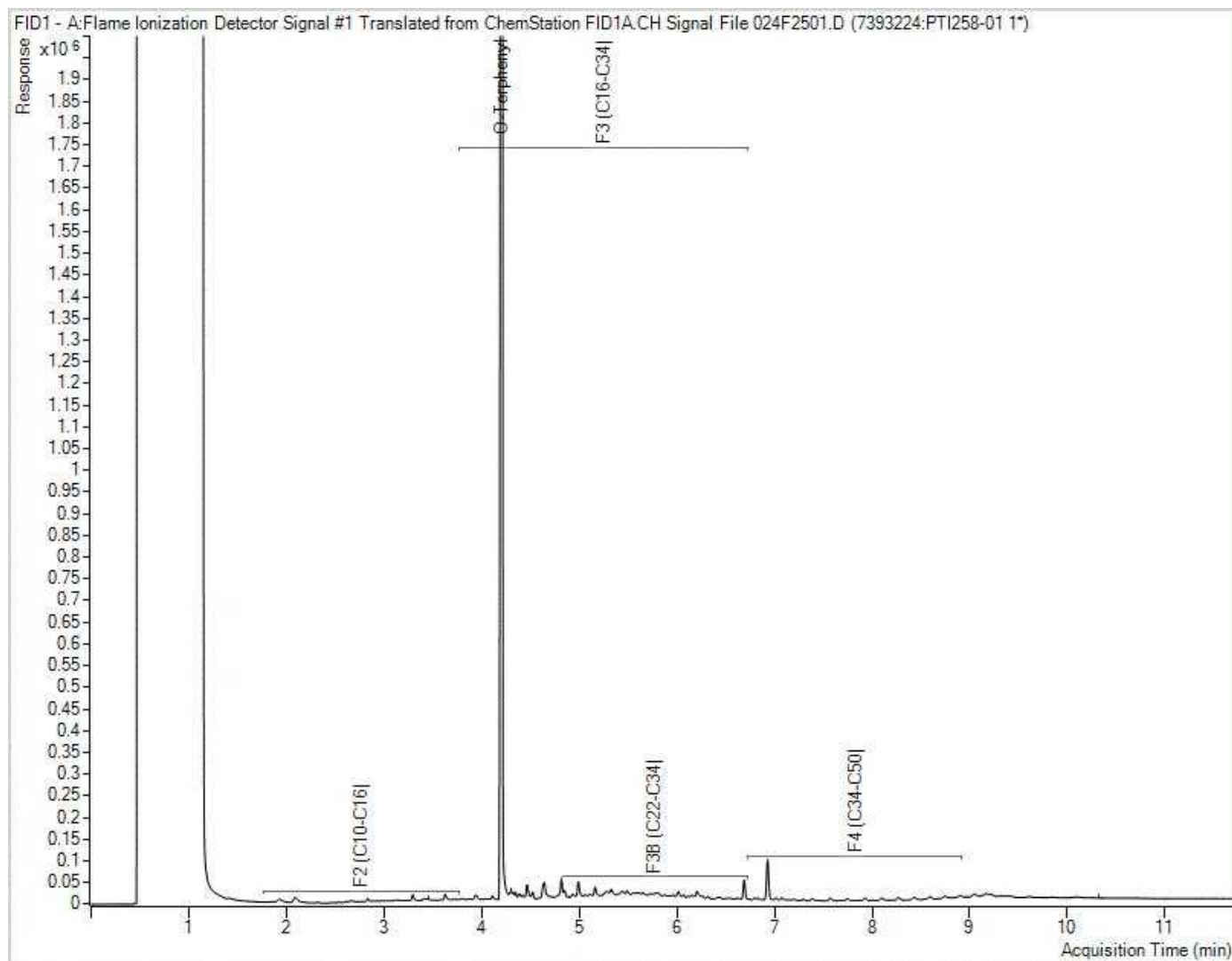


**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI258

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-102 SS6 (3.8-4.4M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

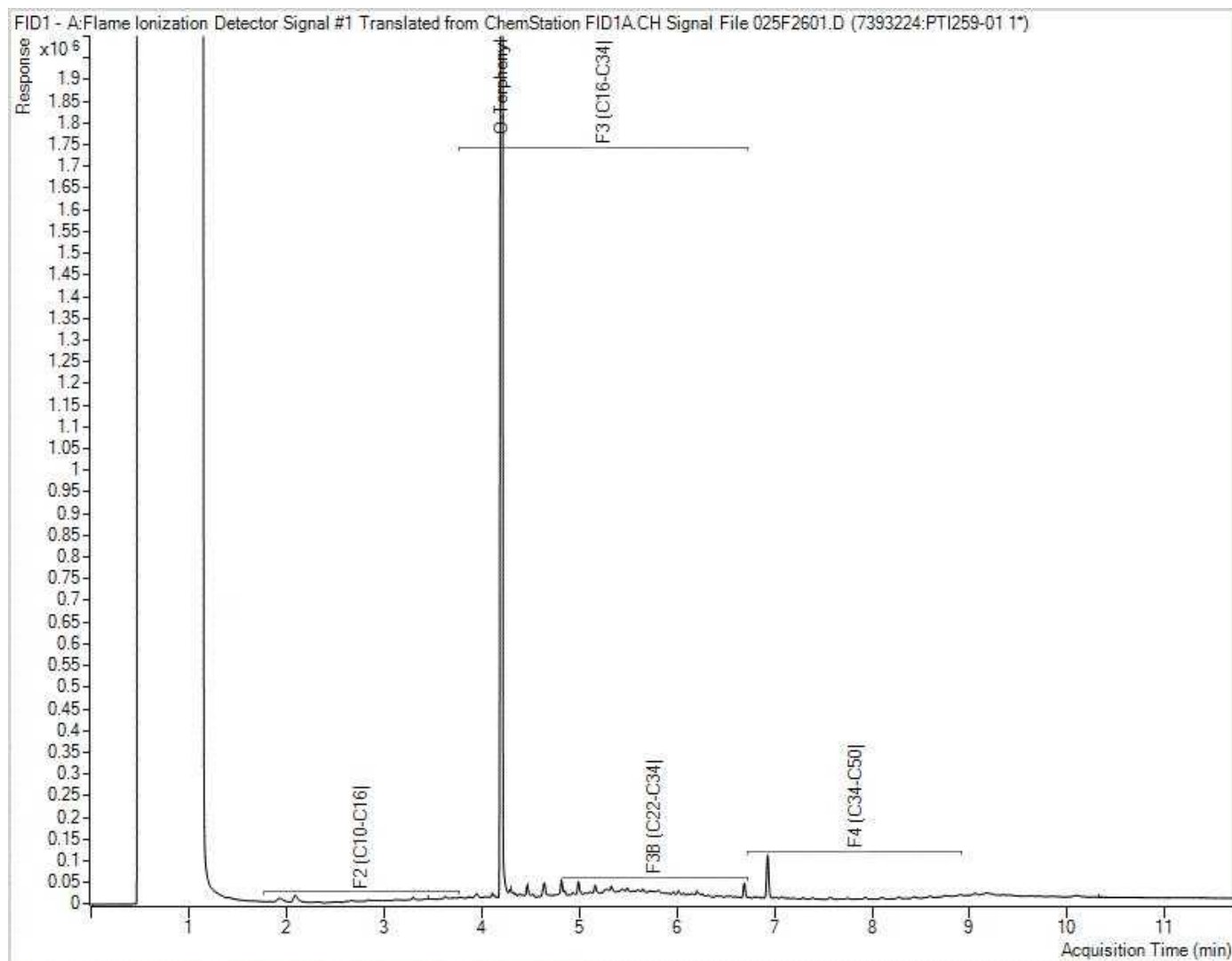


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI259

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-102 SS7 (4.6-5.2M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

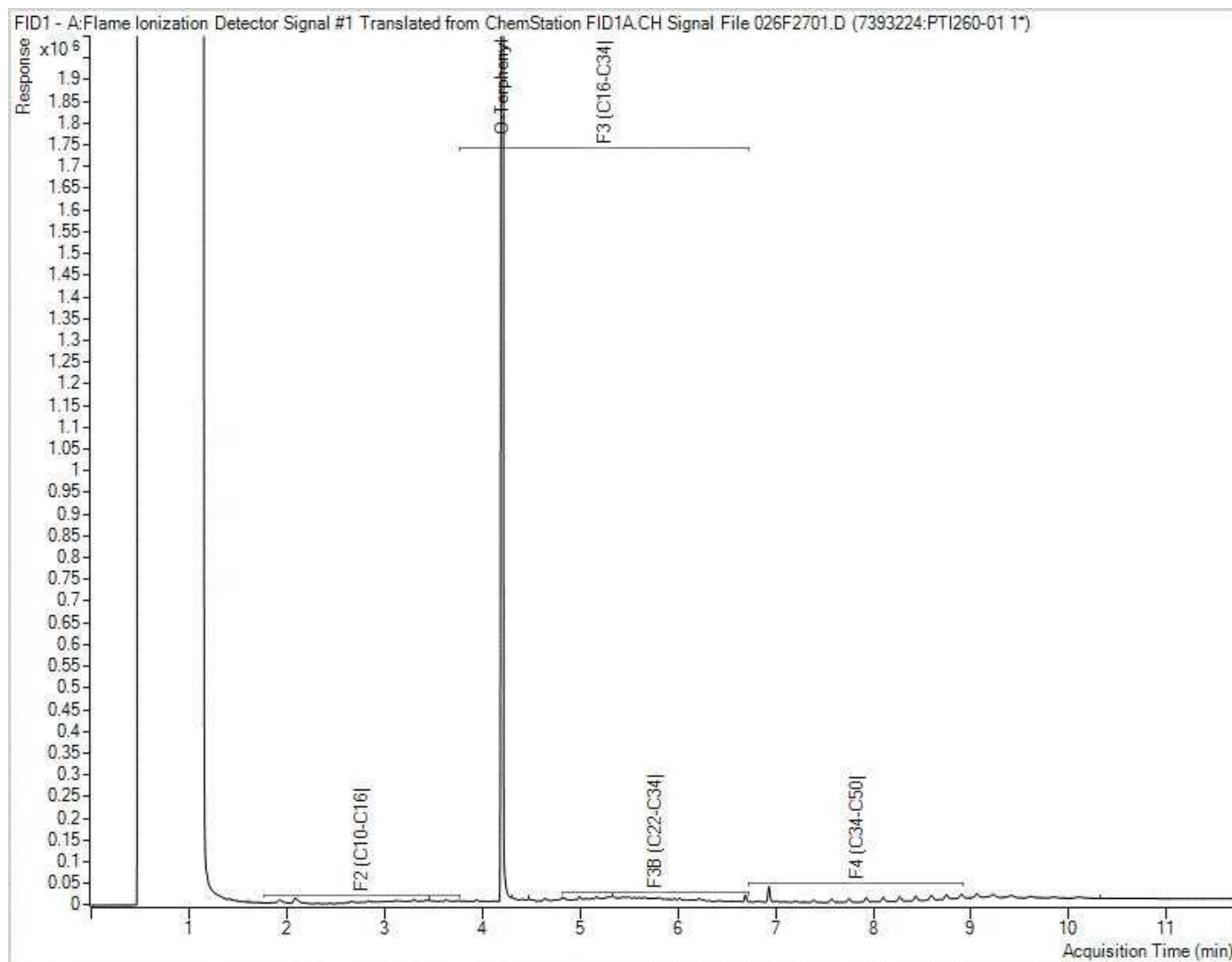


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI260

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-103 SS6 (3.8-4.4M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

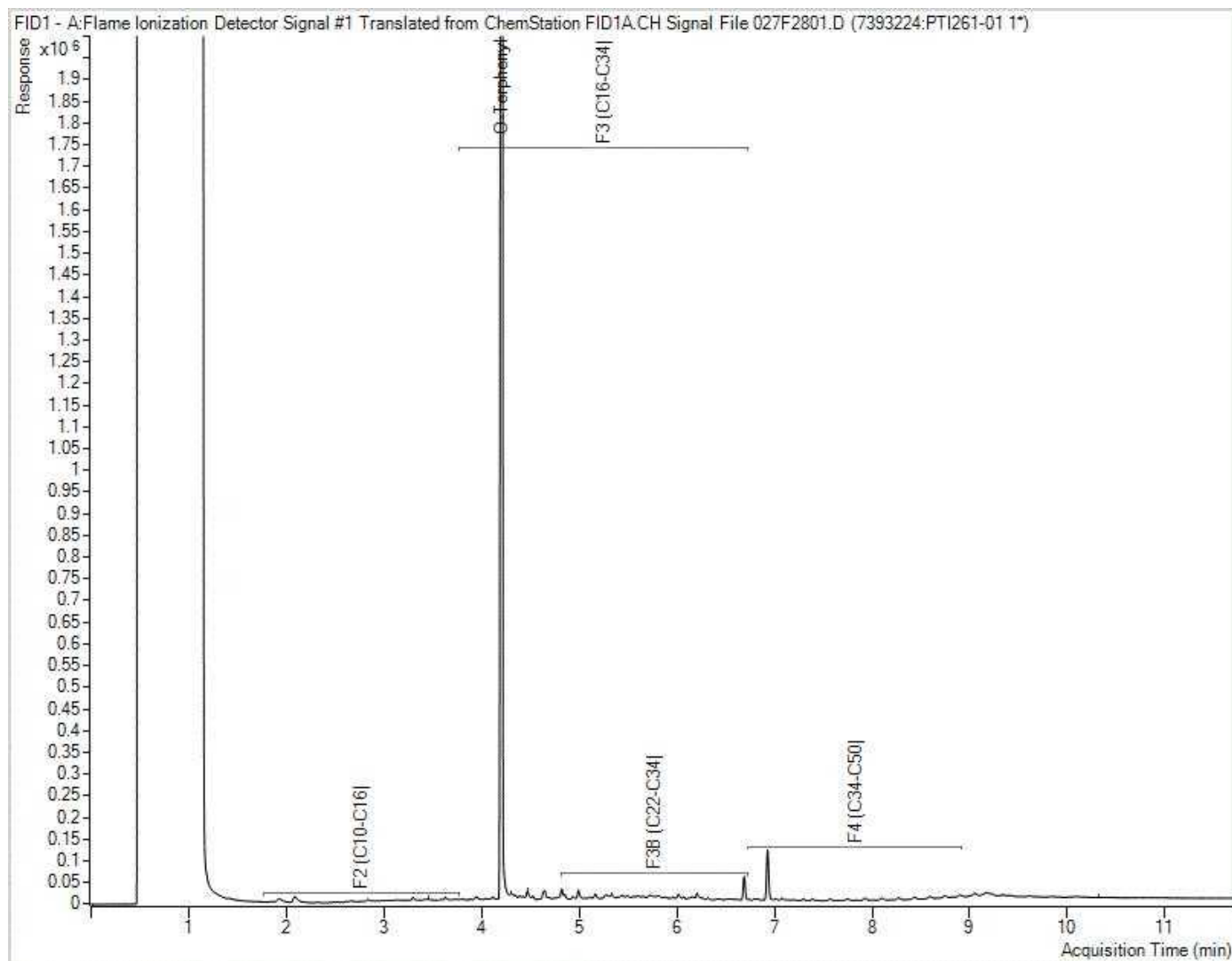


**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI261

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-104 SS4 (2.3-2.7M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

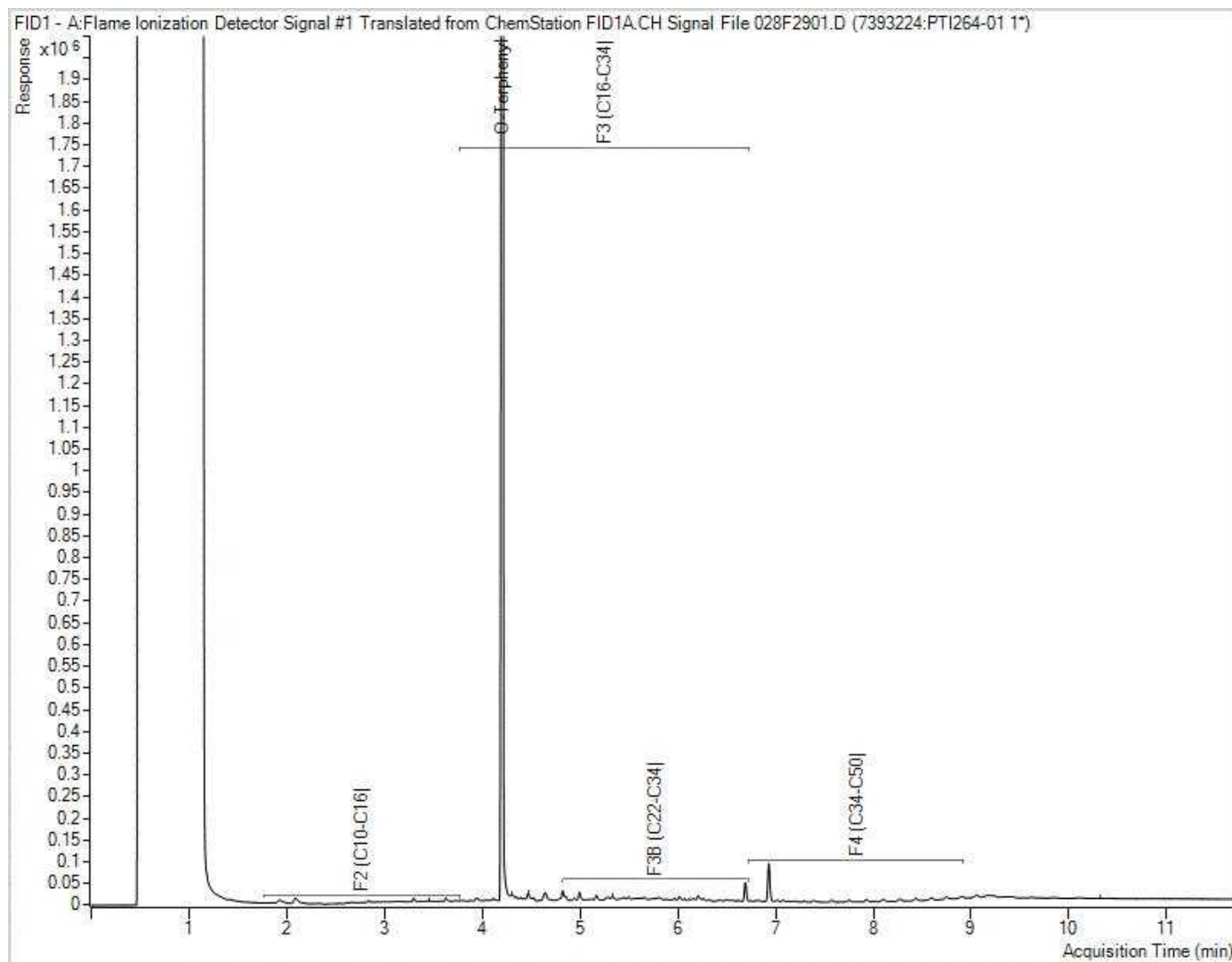


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI264

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-106 SS4 (0.8-1.4M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

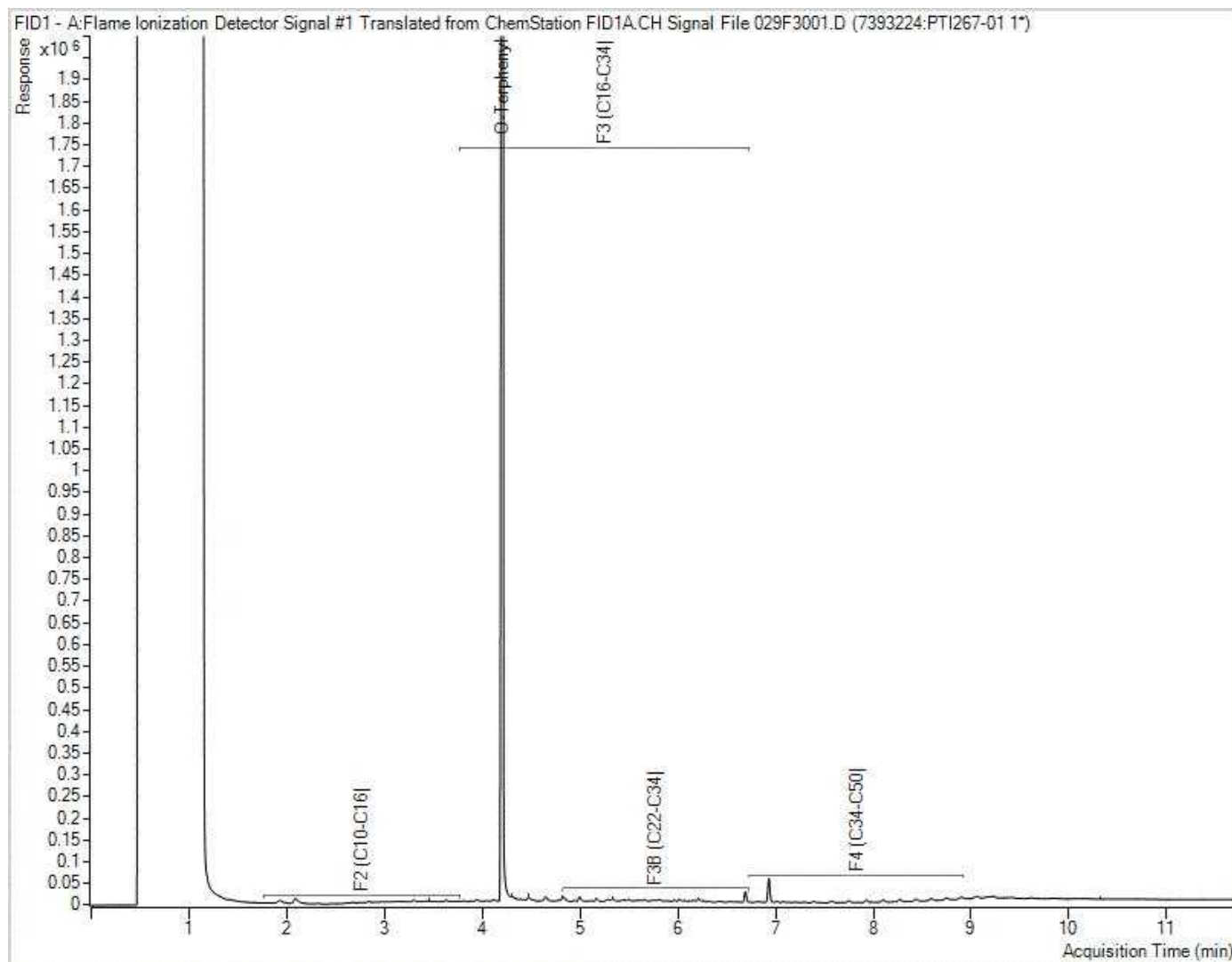


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI267

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-107 SS3 (1.5-2.1M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**

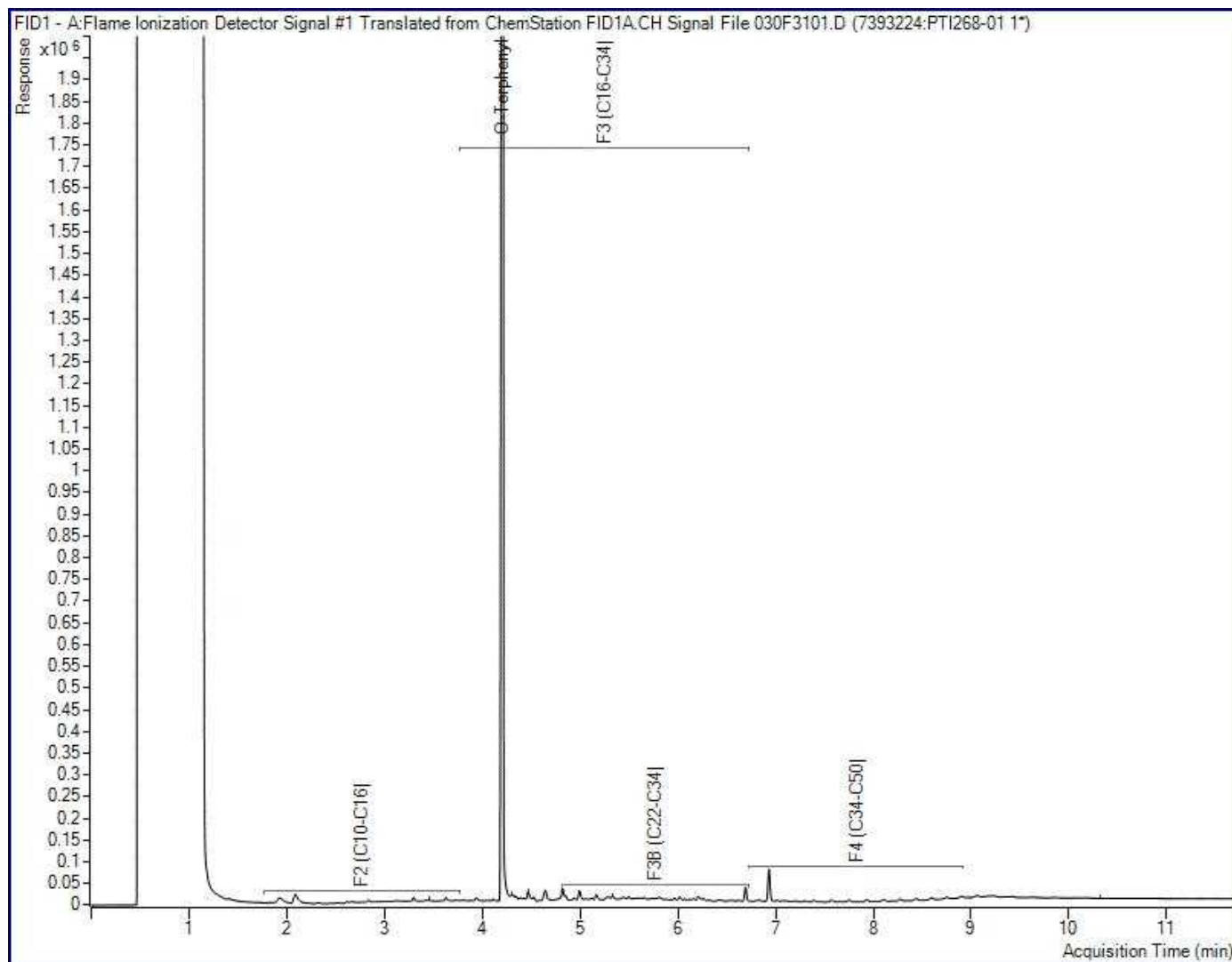


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F3550  
Report Date: 2021/06/11  
BV Labs Sample: PTI268

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE,GROOMLEY  
Client ID: BH-108 SS2 (0.8-1.4M)

**Petroleum Hydrocarbons F2-F4 in Soil Chromatogram**



**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**





Your P.O. #: MRK- GEO  
Your Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your C.O.C. #: na

**Attention: Aleksandar Saric**

exp Services Inc  
Markham Branch  
220 Commerce Valley Dr W  
Suite 500  
Markham, ON  
CANADA L3T 0A8

**Report Date: 2021/06/15**

Report #: R6677579

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1F6446**

**Received: 2021/06/08, 15:25**

Sample Matrix: Water  
# Samples Received: 5

| Analyses                                  | Quantity | Date<br>Extracted | Date<br>Analyzed | Laboratory Method | Analytical Method |
|---|----------|-------------------|------------------|-------------------|-------------------|
| 1,3-Dichloropropene Sum                   | 1        | N/A               | 2021/06/14       |                   | EPA 8260C m       |
| 1,3-Dichloropropene Sum                   | 2        | N/A               | 2021/06/15       |                   | EPA 8260C m       |
| Petroleum Hydro. CCME F1 & BTEX in Water  | 2        | N/A               | 2021/06/11       | CAM SOP-00315     | CCME PHC-CWS m    |
| Petroleum Hydrocarbons F2-F4 in Water (1) | 4        | 2021/06/11        | 2021/06/11       | CAM SOP-00316     | CCME PHC-CWS m    |
| Volatile Organic Compounds and F1 PHCs    | 1        | N/A               | 2021/06/14       | CAM SOP-00230     | EPA 8260C m       |
| Volatile Organic Compounds and F1 PHCs    | 1        | N/A               | 2021/06/15       | CAM SOP-00230     | EPA 8260C m       |
| Volatile Organic Compounds in Water       | 1        | N/A               | 2021/06/13       | CAM SOP-00228     | EPA 8260C m       |

**Remarks:**

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta



Your P.O. #: MRK- GEO  
Your Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your C.O.C. #: na

**Attention: Aleksandar Saric**

exp Services Inc  
Markham Branch  
220 Commerce Valley Dr W  
Suite 500  
Markham, ON  
CANADA L3T 0A8

**Report Date: 2021/06/15**  
Report #: R6677579  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1F6446**

**Received: 2021/06/08, 15:25**

Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Patricia Legette, Project Manager

Email: Patricia.Legette@bureauveritas.com

Phone# (905)817-5799

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### O.REG 153 PHCS, BTEX/F1-F4 (WATER)

|                                   |              |                     |                     |            |                 |
|-----------------------------------|--------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID                        |              | PTX973              | PTX974              |            |                 |
| Sampling Date                     |              | 2021/06/08<br>09:35 | 2021/06/08<br>10:05 |            |                 |
| COC Number                        |              | na                  | na                  |            |                 |
|                                   | <b>UNITS</b> | <b>MW-103</b>       | <b>MW-106</b>       | <b>RDL</b> | <b>QC Batch</b> |
| <b>BTEX &amp; F1 Hydrocarbons</b> |              |                     |                     |            |                 |
| Benzene                           | ug/L         | <0.20               | <0.20               | 0.20       | 7402385         |
| Toluene                           | ug/L         | <0.20               | <0.20               | 0.20       | 7402385         |
| Ethylbenzene                      | ug/L         | <0.20               | <0.20               | 0.20       | 7402385         |
| o-Xylene                          | ug/L         | <0.20               | <0.20               | 0.20       | 7402385         |
| p+m-Xylene                        | ug/L         | <0.40               | <0.40               | 0.40       | 7402385         |
| Total Xylenes                     | ug/L         | <0.40               | <0.40               | 0.40       | 7402385         |
| F1 (C6-C10)                       | ug/L         | <25                 | <25                 | 25         | 7402385         |
| F1 (C6-C10) - BTEX                | ug/L         | <25                 | <25                 | 25         | 7402385         |
| <b>F2-F4 Hydrocarbons</b>         |              |                     |                     |            |                 |
| F2 (C10-C16 Hydrocarbons)         | ug/L         | <100                | <100                | 100        | 7402234         |
| F3 (C16-C34 Hydrocarbons)         | ug/L         | <200                | <200                | 200        | 7402234         |
| F4 (C34-C50 Hydrocarbons)         | ug/L         | <200                | <200                | 200        | 7402234         |
| Reached Baseline at C50           | ug/L         | Yes                 | Yes                 |            | 7402234         |
| <b>Surrogate Recovery (%)</b>     |              |                     |                     |            |                 |
| 1,4-Difluorobenzene               | %            | 94                  | 92                  |            | 7402385         |
| 4-Bromofluorobenzene              | %            | 109                 | 104                 |            | 7402385         |
| D10-o-Xylene                      | %            | 102                 | 100                 |            | 7402385         |
| D4-1,2-Dichloroethane             | %            | 103                 | 104                 |            | 7402385         |
| o-Terphenyl                       | %            | 94                  | 94                  |            | 7402234         |
| RDL = Reportable Detection Limit  |              |                     |                     |            |                 |
| QC Batch = Quality Control Batch  |              |                     |                     |            |                 |



BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### O.REG 153 VOCs BY HS & F1-F4 (WATER)

|               |              |                     |                     |            |                 |                            |            |                 |
|---------------|--------------|---------------------|---------------------|------------|-----------------|----------------------------|------------|-----------------|
| BV Labs ID    |              | PTX971              | PTX972              |            |                 | PTX972                     |            |                 |
| Sampling Date |              | 2021/06/08<br>09:23 | 2021/06/08<br>09:23 |            |                 | 2021/06/08<br>09:23        |            |                 |
| COC Number    |              | na                  | na                  |            |                 | na                         |            |                 |
|               | <b>UNITS</b> | <b>MW-102</b>       | <b>MW-102D</b>      | <b>RDL</b> | <b>QC Batch</b> | <b>MW-102D<br/>Lab-Dup</b> | <b>RDL</b> | <b>QC Batch</b> |

#### Calculated Parameters

|                                 |      |       |       |      |         |  |  |  |
|---------------------------------|------|-------|-------|------|---------|--|--|--|
| 1,3-Dichloropropene (cis+trans) | ug/L | <0.50 | <0.50 | 0.50 | 7395293 |  |  |  |
|---------------------------------|------|-------|-------|------|---------|--|--|--|

#### Volatile Organics

|                                     |      |       |       |      |         |       |      |         |
|-------------------------------------|------|-------|-------|------|---------|-------|------|---------|
| Acetone (2-Propanone)               | ug/L | 15    | 13    | 10   | 7402448 | 13    | 10   | 7402448 |
| Benzene                             | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| Bromodichloromethane                | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| Bromoform                           | ug/L | <1.0  | <1.0  | 1.0  | 7402448 | <1.0  | 1.0  | 7402448 |
| Bromomethane                        | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| Carbon Tetrachloride                | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| Chlorobenzene                       | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| Chloroform                          | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| Dibromochloromethane                | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| 1,2-Dichlorobenzene                 | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| 1,3-Dichlorobenzene                 | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| 1,4-Dichlorobenzene                 | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| Dichlorodifluoromethane (FREON 12)  | ug/L | <1.0  | <1.0  | 1.0  | 7402448 | <1.0  | 1.0  | 7402448 |
| 1,1-Dichloroethane                  | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| 1,2-Dichloroethane                  | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| 1,1-Dichloroethylene                | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| cis-1,2-Dichloroethylene            | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| trans-1,2-Dichloroethylene          | ug/L | <0.50 | <0.50 | 0.50 | 7402448 | <0.50 | 0.50 | 7402448 |
| 1,2-Dichloropropane                 | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| cis-1,3-Dichloropropene             | ug/L | <0.30 | <0.30 | 0.30 | 7402448 | <0.30 | 0.30 | 7402448 |
| trans-1,3-Dichloropropene           | ug/L | <0.40 | <0.40 | 0.40 | 7402448 | <0.40 | 0.40 | 7402448 |
| Ethylbenzene                        | ug/L | 0.39  | 0.39  | 0.20 | 7402448 | 0.34  | 0.20 | 7402448 |
| Ethylene Dibromide                  | ug/L | <0.20 | <0.20 | 0.20 | 7402448 | <0.20 | 0.20 | 7402448 |
| Hexane                              | ug/L | <1.0  | <1.0  | 1.0  | 7402448 | <1.0  | 1.0  | 7402448 |
| Methylene Chloride(Dichloromethane) | ug/L | <2.0  | <2.0  | 2.0  | 7402448 | <2.0  | 2.0  | 7402448 |
| Methyl Ethyl Ketone (2-Butanone)    | ug/L | <10   | <10   | 10   | 7402448 | <10   | 10   | 7402448 |
| Methyl Isobutyl Ketone              | ug/L | <5.0  | <5.0  | 5.0  | 7402448 | <5.0  | 5.0  | 7402448 |

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



BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### O.REG 153 VOCs BY HS & F1-F4 (WATER)

|  |       |                     |                     |      |          |                     |      |          |
|--|-------|---------------------|---------------------|------|----------|---------------------|------|----------|
| BV Labs ID   |       | PTX971              | PTX972              |      |          | PTX972              |      |          |
| Sampling Date  |       | 2021/06/08<br>09:23 | 2021/06/08<br>09:23 |      |          | 2021/06/08<br>09:23 |      |          |
| COC Number   |       | na                  | na                  |      |          | na                  |      |          |
|  | UNITS | MW-102              | MW-102D             | RDL  | QC Batch | MW-102D<br>Lab-Dup  | RDL  | QC Batch |
| Methyl t-butyl ether (MTBE)  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| Styrene  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| 1,1,1,2-Tetrachloroethane  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| 1,1,2,2-Tetrachloroethane  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| Tetrachloroethylene  | ug/L  | <0.20               | <0.20               | 0.20 | 7402448  | <0.20               | 0.20 | 7402448  |
| Toluene  | ug/L  | 0.42                | 0.40                | 0.20 | 7402448  | 0.33                | 0.20 | 7402448  |
| 1,1,1-Trichloroethane  | ug/L  | <0.20               | <0.20               | 0.20 | 7402448  | <0.20               | 0.20 | 7402448  |
| 1,1,2-Trichloroethane  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| Trichloroethylene  | ug/L  | <0.20               | <0.20               | 0.20 | 7402448  | <0.20               | 0.20 | 7402448  |
| Trichlorofluoromethane (FREON 11)  | ug/L  | <0.50               | <0.50               | 0.50 | 7402448  | <0.50               | 0.50 | 7402448  |
| Vinyl Chloride   | ug/L  | <0.20               | <0.20               | 0.20 | 7402448  | <0.20               | 0.20 | 7402448  |
| p+m-Xylene   | ug/L  | 0.56                | 0.53                | 0.20 | 7402448  | 0.47                | 0.20 | 7402448  |
| o-Xylene   | ug/L  | 2.9                 | 2.6                 | 0.20 | 7402448  | 2.3                 | 0.20 | 7402448  |
| Total Xylenes  | ug/L  | 3.5                 | 3.2                 | 0.20 | 7402448  | 2.8                 | 0.20 | 7402448  |
| F1 (C6-C10)  | ug/L  | 53                  | 46                  | 25   | 7402448  | 38                  | 25   | 7402448  |
| F1 (C6-C10) - BTEX   | ug/L  | 49                  | 43                  | 25   | 7402448  | 35                  | 25   | 7402448  |
| <b>F2-F4 Hydrocarbons</b>  |       |                     |                     |      |          |                     |      |          |
| F2 (C10-C16 Hydrocarbons)  | ug/L  | <100                | <100                | 100  | 7402234  | <100                | 100  | 7402234  |
| F3 (C16-C34 Hydrocarbons)  | ug/L  | <200                | <200                | 200  | 7402234  | <200                | 200  | 7402234  |
| F4 (C34-C50 Hydrocarbons)  | ug/L  | <200                | <200                | 200  | 7402234  | <200                | 200  | 7402234  |
| Reached Baseline at C50  | ug/L  | Yes                 | Yes                 |      | 7402234  | Yes                 |      | 7402234  |
| <b>Surrogate Recovery (%)</b>  |       |                     |                     |      |          |                     |      |          |
| o-Terphenyl  | %     | 94                  | 95                  |      | 7402234  | 94                  |      | 7402234  |
| 4-Bromofluorobenzene   | %     | 83                  | 87                  |      | 7402448  | 85                  |      | 7402448  |
| D4-1,2-Dichloroethane  | %     | 116                 | 117                 |      | 7402448  | 117                 |      | 7402448  |
| D8-Toluene   | %     | 89                  | 92                  |      | 7402448  | 81                  |      | 7402448  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>Lab-Dup = Laboratory Initiated Duplicate |       |                     |                     |      |          |                     |      |          |



### O.REG 153 VOCs BY HS (WATER)

|                                     |       |                        |      |          |
|-------------------------------------|-------|------------------------|------|----------|
| BV Labs ID                          |       | PTX975                 |      |          |
| Sampling Date                       |       | 2021/06/08             |      |          |
| COC Number                          |       | na                     |      |          |
|                                     | UNITS | TRIP BLANK<br>LOT#3699 | RDL  | QC Batch |
| <b>Calculated Parameters</b>        |       |                        |      |          |
| 1,3-Dichloropropene (cis+trans)     | ug/L  | <0.50                  | 0.50 | 7395293  |
| <b>Volatile Organics</b>            |       |                        |      |          |
| Acetone (2-Propanone)               | ug/L  | <10                    | 10   | 7402436  |
| Benzene                             | ug/L  | <0.20                  | 0.20 | 7402436  |
| Bromodichloromethane                | ug/L  | <0.50                  | 0.50 | 7402436  |
| Bromoform                           | ug/L  | <1.0                   | 1.0  | 7402436  |
| Bromomethane                        | ug/L  | <0.50                  | 0.50 | 7402436  |
| Carbon Tetrachloride                | ug/L  | <0.19                  | 0.19 | 7402436  |
| Chlorobenzene                       | ug/L  | <0.20                  | 0.20 | 7402436  |
| Chloroform                          | ug/L  | <0.20                  | 0.20 | 7402436  |
| Dibromochloromethane                | ug/L  | <0.50                  | 0.50 | 7402436  |
| 1,2-Dichlorobenzene                 | ug/L  | <0.40                  | 0.40 | 7402436  |
| 1,3-Dichlorobenzene                 | ug/L  | <0.40                  | 0.40 | 7402436  |
| 1,4-Dichlorobenzene                 | ug/L  | <0.40                  | 0.40 | 7402436  |
| Dichlorodifluoromethane (FREON 12)  | ug/L  | <1.0                   | 1.0  | 7402436  |
| 1,1-Dichloroethane                  | ug/L  | <0.20                  | 0.20 | 7402436  |
| 1,2-Dichloroethane                  | ug/L  | <0.49                  | 0.49 | 7402436  |
| 1,1-Dichloroethylene                | ug/L  | <0.20                  | 0.20 | 7402436  |
| cis-1,2-Dichloroethylene            | ug/L  | <0.50                  | 0.50 | 7402436  |
| trans-1,2-Dichloroethylene          | ug/L  | <0.50                  | 0.50 | 7402436  |
| 1,2-Dichloropropane                 | ug/L  | <0.20                  | 0.20 | 7402436  |
| cis-1,3-Dichloropropene             | ug/L  | <0.30                  | 0.30 | 7402436  |
| trans-1,3-Dichloropropene           | ug/L  | <0.40                  | 0.40 | 7402436  |
| Ethylbenzene                        | ug/L  | <0.20                  | 0.20 | 7402436  |
| Ethylene Dibromide                  | ug/L  | <0.19                  | 0.19 | 7402436  |
| Hexane                              | ug/L  | <1.0                   | 1.0  | 7402436  |
| Methylene Chloride(Dichloromethane) | ug/L  | <2.0                   | 2.0  | 7402436  |
| Methyl Ethyl Ketone (2-Butanone)    | ug/L  | <10                    | 10   | 7402436  |
| Methyl Isobutyl Ketone              | ug/L  | <5.0                   | 5.0  | 7402436  |
| Methyl t-butyl ether (MTBE)         | ug/L  | <0.50                  | 0.50 | 7402436  |
| RDL = Reportable Detection Limit    |       |                        |      |          |
| QC Batch = Quality Control Batch    |       |                        |      |          |



BUREAU  
VERITAS

BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### O.REG 153 VOCS BY HS (WATER)

|                                   |              |                                |            |                 |
|-----------------------------------|--------------|--------------------------------|------------|-----------------|
| BV Labs ID                        |              | PTX975                         |            |                 |
| Sampling Date                     |              | 2021/06/08                     |            |                 |
| COC Number                        |              | na                             |            |                 |
|                                   | <b>UNITS</b> | <b>TRIP BLANK<br/>LOT#3699</b> | <b>RDL</b> | <b>QC Batch</b> |
| Styrene                           | ug/L         | <0.40                          | 0.40       | 7402436         |
| 1,1,1,2-Tetrachloroethane         | ug/L         | <0.50                          | 0.50       | 7402436         |
| 1,1,2,2-Tetrachloroethane         | ug/L         | <0.40                          | 0.40       | 7402436         |
| Tetrachloroethylene               | ug/L         | <0.20                          | 0.20       | 7402436         |
| Toluene                           | ug/L         | <0.20                          | 0.20       | 7402436         |
| 1,1,1-Trichloroethane             | ug/L         | <0.20                          | 0.20       | 7402436         |
| 1,1,2-Trichloroethane             | ug/L         | <0.40                          | 0.40       | 7402436         |
| Trichloroethylene                 | ug/L         | <0.20                          | 0.20       | 7402436         |
| Trichlorofluoromethane (FREON 11) | ug/L         | <0.50                          | 0.50       | 7402436         |
| Vinyl Chloride                    | ug/L         | <0.20                          | 0.20       | 7402436         |
| p+m-Xylene                        | ug/L         | <0.20                          | 0.20       | 7402436         |
| o-Xylene                          | ug/L         | <0.20                          | 0.20       | 7402436         |
| Total Xylenes                     | ug/L         | <0.20                          | 0.20       | 7402436         |
| <b>Surrogate Recovery (%)</b>     |              |                                |            |                 |
| 4-Bromofluorobenzene              | %            | 97                             |            | 7402436         |
| D4-1,2-Dichloroethane             | %            | 107                            |            | 7402436         |
| D8-Toluene                        | %            | 93                             |            | 7402436         |
| RDL = Reportable Detection Limit  |              |                                |            |                 |
| QC Batch = Quality Control Batch  |              |                                |            |                 |



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VERITAS

BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

## TEST SUMMARY

**BV Labs ID:** PTX971  
**Sample ID:** MW-102  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7395293 | N/A        | 2021/06/15    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Water  | GC/FID          | 7402234 | 2021/06/11 | 2021/06/11    | Jeevaraj Jeevaratnam |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7402448 | N/A        | 2021/06/14    | Yang (Philip) Yu     |

**BV Labs ID:** PTX972  
**Sample ID:** MW-102D  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| 1,3-Dichloropropene Sum                | CALC            | 7395293 | N/A        | 2021/06/15    | Automated Statchk    |
| Petroleum Hydrocarbons F2-F4 in Water  | GC/FID          | 7402234 | 2021/06/11 | 2021/06/11    | Jeevaraj Jeevaratnam |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7402448 | N/A        | 2021/06/15    | Yang (Philip) Yu     |

**BV Labs ID:** PTX972 Dup  
**Sample ID:** MW-102D  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                       | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydrocarbons F2-F4 in Water  | GC/FID          | 7402234 | 2021/06/11 | 2021/06/11    | Jeevaraj Jeevaratnam |
| Volatile Organic Compounds and F1 PHCs | GC/MSFD         | 7402448 | N/A        | 2021/06/15    | Yang (Philip) Yu     |

**BV Labs ID:** PTX973  
**Sample ID:** MW-103  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                         | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Water | HSGC/MSFD       | 7402385 | N/A        | 2021/06/11    | Joe Paino            |
| Petroleum Hydrocarbons F2-F4 in Water    | GC/FID          | 7402234 | 2021/06/11 | 2021/06/11    | Jeevaraj Jeevaratnam |

**BV Labs ID:** PTX974  
**Sample ID:** MW-106  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                         | Instrumentation | Batch   | Extracted  | Date Analyzed | Analyst              |
|--|-----------------|---------|------------|---------------|----------------------|
| Petroleum Hydro. CCME F1 & BTEX in Water | HSGC/MSFD       | 7402385 | N/A        | 2021/06/11    | Joe Paino            |
| Petroleum Hydrocarbons F2-F4 in Water    | GC/FID          | 7402234 | 2021/06/11 | 2021/06/11    | Jeevaraj Jeevaratnam |

**BV Labs ID:** PTX975  
**Sample ID:** TRIP BLANK LOT#3699  
**Matrix:** Water

**Collected:** 2021/06/08  
**Shipped:**  
**Received:** 2021/06/08

| Test Description                    | Instrumentation | Batch   | Extracted | Date Analyzed | Analyst           |
|-------------------------------------|-----------------|---------|-----------|---------------|-------------------|
| 1,3-Dichloropropene Sum             | CALC            | 7395293 | N/A       | 2021/06/14    | Automated Statchk |
| Volatile Organic Compounds in Water | GC/MS           | 7402436 | N/A       | 2021/06/13    | Juan Pangilinan   |





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BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### GENERAL COMMENTS

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

|           |       |
|-----------|-------|
| Package 1 | 5.0°C |
|-----------|-------|

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

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BV Labs Job #: C1F6446

Report Date: 2021/06/15

## QUALITY ASSURANCE REPORT

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE, GORMLEY

Your P.O. #: MRK- GEO

Sampler Initials: AS

| QC Batch | Parameter                 | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|---------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                           |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7402234  | o-Terphenyl               | 2021/06/11 | 95           | 60 - 130  | 93           | 60 - 130  | 95           | %     |           |           |
| 7402385  | 1,4-Difluorobenzene       | 2021/06/11 | 89           | 70 - 130  | 89           | 70 - 130  | 92           | %     |           |           |
| 7402385  | 4-Bromofluorobenzene      | 2021/06/11 | 113          | 70 - 130  | 110          | 70 - 130  | 102          | %     |           |           |
| 7402385  | D10-o-Xylene              | 2021/06/11 | 87           | 70 - 130  | 82           | 70 - 130  | 99           | %     |           |           |
| 7402385  | D4-1,2-Dichloroethane     | 2021/06/11 | 101          | 70 - 130  | 99           | 70 - 130  | 101          | %     |           |           |
| 7402436  | 4-Bromofluorobenzene      | 2021/06/13 | 105          | 70 - 130  | 107          | 70 - 130  | 100          | %     |           |           |
| 7402436  | D4-1,2-Dichloroethane     | 2021/06/13 | 101          | 70 - 130  | 100          | 70 - 130  | 103          | %     |           |           |
| 7402436  | D8-Toluene                | 2021/06/13 | 101          | 70 - 130  | 102          | 70 - 130  | 95           | %     |           |           |
| 7402448  | 4-Bromofluorobenzene      | 2021/06/14 | 93           | 70 - 130  | 103          | 70 - 130  | 80           | %     |           |           |
| 7402448  | D4-1,2-Dichloroethane     | 2021/06/14 | 110          | 70 - 130  | 98           | 70 - 130  | 110          | %     |           |           |
| 7402448  | D8-Toluene                | 2021/06/14 | 104          | 70 - 130  | 109          | 70 - 130  | 92           | %     |           |           |
| 7402234  | F2 (C10-C16 Hydrocarbons) | 2021/06/11 | 95           | 60 - 130  | 97           | 60 - 130  | <100         | ug/L  | NC        | 30        |
| 7402234  | F3 (C16-C34 Hydrocarbons) | 2021/06/11 | 95           | 60 - 130  | 98           | 60 - 130  | <200         | ug/L  | NC        | 30        |
| 7402234  | F4 (C34-C50 Hydrocarbons) | 2021/06/11 | 100          | 60 - 130  | 102          | 60 - 130  | <200         | ug/L  | NC        | 30        |
| 7402385  | Benzene                   | 2021/06/11 | 88           | 50 - 140  | 86           | 50 - 140  | <0.20        | ug/L  | NC        | 30        |
| 7402385  | Ethylbenzene              | 2021/06/11 | 94           | 50 - 140  | 94           | 50 - 140  | <0.20        | ug/L  | NC        | 30        |
| 7402385  | F1 (C6-C10) - BTEX        | 2021/06/11 |              |           |              |           | <25          | ug/L  | NC        | 30        |
| 7402385  | F1 (C6-C10)               | 2021/06/11 | 90           | 60 - 140  | 90           | 60 - 140  | <25          | ug/L  | NC        | 30        |
| 7402385  | o-Xylene                  | 2021/06/11 | 92           | 50 - 140  | 91           | 50 - 140  | <0.20        | ug/L  | NC        | 30        |
| 7402385  | p+m-Xylene                | 2021/06/11 | 91           | 50 - 140  | 91           | 50 - 140  | <0.40        | ug/L  | NC        | 30        |
| 7402385  | Toluene                   | 2021/06/11 | 86           | 50 - 140  | 85           | 50 - 140  | <0.20        | ug/L  | NC        | 30        |
| 7402385  | Total Xylenes             | 2021/06/11 |              |           |              |           | <0.40        | ug/L  | NC        | 30        |
| 7402436  | 1,1,1,2-Tetrachloroethane | 2021/06/13 | 97           | 70 - 130  | 98           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | 1,1,1-Trichloroethane     | 2021/06/13 | 101          | 70 - 130  | 101          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | 1,1,2,2-Tetrachloroethane | 2021/06/13 | 100          | 70 - 130  | 100          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | 1,1,2-Trichloroethane     | 2021/06/13 | 101          | 70 - 130  | 102          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | 1,1-Dichloroethane        | 2021/06/13 | 91           | 70 - 130  | 91           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | 1,1-Dichloroethylene      | 2021/06/13 | 95           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | 1,2-Dichlorobenzene       | 2021/06/13 | 100          | 70 - 130  | 97           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | 1,2-Dichloroethane        | 2021/06/13 | 97           | 70 - 130  | 97           | 70 - 130  | <0.49        | ug/L  | NC        | 30        |

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BV Labs Job #: C1F6446

Report Date: 2021/06/15

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE,GORMLEY

Your P.O. #: MRK- GEO

Sampler Initials: AS

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7402436  | 1,2-Dichloropropane                 | 2021/06/13 | 95           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | 1,3-Dichlorobenzene                 | 2021/06/13 | 98           | 70 - 130  | 95           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | 1,4-Dichlorobenzene                 | 2021/06/13 | 115          | 70 - 130  | 112          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | Acetone (2-Propanone)               | 2021/06/13 | 105          | 60 - 140  | 104          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 7402436  | Benzene                             | 2021/06/13 | 92           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Bromodichloromethane                | 2021/06/13 | 102          | 70 - 130  | 102          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | Bromoform                           | 2021/06/13 | 102          | 70 - 130  | 102          | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 7402436  | Bromomethane                        | 2021/06/13 | 94           | 60 - 140  | 92           | 60 - 140  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | Carbon Tetrachloride                | 2021/06/13 | 97           | 70 - 130  | 97           | 70 - 130  | <0.19        | ug/L  | NC        | 30        |
| 7402436  | Chlorobenzene                       | 2021/06/13 | 99           | 70 - 130  | 99           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Chloroform                          | 2021/06/13 | 96           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | cis-1,2-Dichloroethylene            | 2021/06/13 | 100          | 70 - 130  | 100          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | cis-1,3-Dichloropropene             | 2021/06/13 | 101          | 70 - 130  | 99           | 70 - 130  | <0.30        | ug/L  | NC        | 30        |
| 7402436  | Dibromochloromethane                | 2021/06/13 | 96           | 70 - 130  | 96           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | Dichlorodifluoromethane (FREON 12)  | 2021/06/13 | 89           | 60 - 140  | 88           | 60 - 140  | <1.0         | ug/L  | NC        | 30        |
| 7402436  | Ethylbenzene                        | 2021/06/13 | 94           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Ethylene Dibromide                  | 2021/06/13 | 97           | 70 - 130  | 97           | 70 - 130  | <0.19        | ug/L  | NC        | 30        |
| 7402436  | Hexane                              | 2021/06/13 | 95           | 70 - 130  | 96           | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 7402436  | Methyl Ethyl Ketone (2-Butanone)    | 2021/06/13 | 107          | 60 - 140  | 108          | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 7402436  | Methyl Isobutyl Ketone              | 2021/06/13 | 107          | 70 - 130  | 108          | 70 - 130  | <5.0         | ug/L  | NC        | 30        |
| 7402436  | Methyl t-butyl ether (MTBE)         | 2021/06/13 | 95           | 70 - 130  | 96           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | Methylene Chloride(Dichloromethane) | 2021/06/13 | 110          | 70 - 130  | 108          | 70 - 130  | <2.0         | ug/L  | NC        | 30        |
| 7402436  | o-Xylene                            | 2021/06/13 | 93           | 70 - 130  | 95           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | p+m-Xylene                          | 2021/06/13 | 103          | 70 - 130  | 105          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Styrene                             | 2021/06/13 | 108          | 70 - 130  | 111          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402436  | Tetrachloroethylene                 | 2021/06/13 | 92           | 70 - 130  | 91           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Toluene                             | 2021/06/13 | 95           | 70 - 130  | 94           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Total Xylenes                       | 2021/06/13 |              |           |              |           | <0.20        | ug/L  | NC        | 30        |
| 7402436  | trans-1,2-Dichloroethylene          | 2021/06/13 | 99           | 70 - 130  | 98           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | trans-1,3-Dichloropropene           | 2021/06/13 | 105          | 70 - 130  | 101          | 70 - 130  | <0.40        | ug/L  | NC        | 30        |

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BV Labs Job #: C1F6446

Report Date: 2021/06/15

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE, GORMLEY

Your P.O. #: MRK- GEO

Sampler Initials: AS

| QC Batch | Parameter                          | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                    |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7402436  | Trichloroethylene                  | 2021/06/13 | 102          | 70 - 130  | 102          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402436  | Trichlorofluoromethane (FREON 11)  | 2021/06/13 | 95           | 70 - 130  | 95           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402436  | Vinyl Chloride                     | 2021/06/13 | 93           | 70 - 130  | 91           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | 1,1,1,2-Tetrachloroethane          | 2021/06/15 | 78           | 70 - 130  | 101          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,1,1-Trichloroethane              | 2021/06/15 | 82           | 70 - 130  | 104          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | 1,1,2,2-Tetrachloroethane          | 2021/06/15 | 83           | 70 - 130  | 99           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,1,2-Trichloroethane              | 2021/06/15 | 86           | 70 - 130  | 101          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,1-Dichloroethane                 | 2021/06/15 | 77           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | 1,1-Dichloroethylene               | 2021/06/15 | 76           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | 1,2-Dichlorobenzene                | 2021/06/15 | 76           | 70 - 130  | 95           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,2-Dichloroethane                 | 2021/06/15 | 83           | 70 - 130  | 94           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,2-Dichloropropane                | 2021/06/15 | 83           | 70 - 130  | 101          | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | 1,3-Dichlorobenzene                | 2021/06/15 | 76           | 70 - 130  | 96           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | 1,4-Dichlorobenzene                | 2021/06/15 | 90           | 70 - 130  | 116          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Acetone (2-Propanone)              | 2021/06/15 | 76           | 60 - 140  | 94           | 60 - 140  | <10          | ug/L  | 4.8       | 30        |
| 7402448  | Benzene                            | 2021/06/15 | 75           | 70 - 130  | 92           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | Bromodichloromethane               | 2021/06/15 | 86           | 70 - 130  | 104          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Bromoform                          | 2021/06/15 | 70 (1)       | 70 - 130  | 95           | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 7402448  | Bromomethane                       | 2021/06/15 | 66           | 60 - 140  | 84           | 60 - 140  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Carbon Tetrachloride               | 2021/06/15 | 78           | 70 - 130  | 99           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | Chlorobenzene                      | 2021/06/15 | 77           | 70 - 130  | 98           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | Chloroform                         | 2021/06/15 | 82           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | cis-1,2-Dichloroethylene           | 2021/06/15 | 80           | 70 - 130  | 82           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | cis-1,3-Dichloropropene            | 2021/06/15 | 78           | 70 - 130  | 95           | 70 - 130  | <0.30        | ug/L  | NC        | 30        |
| 7402448  | Dibromochloromethane               | 2021/06/15 | 88           | 70 - 130  | 89           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Dichlorodifluoromethane (FREON 12) | 2021/06/15 | 50 (1)       | 60 - 140  | 60 (1)       | 60 - 140  | <1.0         | ug/L  | NC        | 30        |
| 7402448  | Ethylbenzene                       | 2021/06/15 | 75           | 70 - 130  | 97           | 70 - 130  | <0.20        | ug/L  | 14        | 30        |
| 7402448  | Ethylene Dibromide                 | 2021/06/15 | 76           | 70 - 130  | 96           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | F1 (C6-C10) - BTEX                 | 2021/06/15 |              |           |              |           | <25          | ug/L  | 20        | 30        |
| 7402448  | F1 (C6-C10)                        | 2021/06/15 | 91           | 60 - 140  | 94           | 60 - 140  | <25          | ug/L  | 19        | 30        |

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VERITAS

BV Labs Job #: C1F6446

Report Date: 2021/06/15

## QUALITY ASSURANCE REPORT(CONT'D)

exp Services Inc

Client Project #: BRM-21010864-B0

Site Location: 15450 WOODBINE AVENUE, GORMLEY

Your P.O. #: MRK- GEO

Sampler Initials: AS

| QC Batch | Parameter                           | Date       | Matrix Spike |           | SPIKED BLANK |           | Method Blank |       | RPD       |           |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|
|          |                                     |            | % Recovery   | QC Limits | % Recovery   | QC Limits | Value        | UNITS | Value (%) | QC Limits |
| 7402448  | Hexane                              | 2021/06/15 | 79           | 70 - 130  | 108          | 70 - 130  | <1.0         | ug/L  | NC        | 30        |
| 7402448  | Methyl Ethyl Ketone (2-Butanone)    | 2021/06/15 | 86           | 60 - 140  | 92           | 60 - 140  | <10          | ug/L  | NC        | 30        |
| 7402448  | Methyl Isobutyl Ketone              | 2021/06/15 | 89           | 70 - 130  | 105          | 70 - 130  | <5.0         | ug/L  | NC        | 30        |
| 7402448  | Methyl t-butyl ether (MTBE)         | 2021/06/15 | 71           | 70 - 130  | 91           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Methylene Chloride(Dichloromethane) | 2021/06/15 | 90           | 70 - 130  | 113          | 70 - 130  | <2.0         | ug/L  | NC        | 30        |
| 7402448  | o-Xylene                            | 2021/06/15 | 76           | 70 - 130  | 101          | 70 - 130  | <0.20        | ug/L  | 14        | 30        |
| 7402448  | p+m-Xylene                          | 2021/06/15 | 76           | 70 - 130  | 102          | 70 - 130  | <0.20        | ug/L  | 11        | 30        |
| 7402448  | Styrene                             | 2021/06/15 | 82           | 70 - 130  | 112          | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Tetrachloroethylene                 | 2021/06/15 | 65 (1)       | 70 - 130  | 91           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | Toluene                             | 2021/06/15 | 76           | 70 - 130  | 101          | 70 - 130  | <0.20        | ug/L  | 20        | 30        |
| 7402448  | Total Xylenes                       | 2021/06/15 |              |           |              |           | <0.20        | ug/L  | 14        | 30        |
| 7402448  | trans-1,2-Dichloroethylene          | 2021/06/15 | 73           | 70 - 130  | 97           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | trans-1,3-Dichloropropene           | 2021/06/15 | 80           | 70 - 130  | 99           | 70 - 130  | <0.40        | ug/L  | NC        | 30        |
| 7402448  | Trichloroethylene                   | 2021/06/15 | 75           | 70 - 130  | 99           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |
| 7402448  | Trichlorofluoromethane (FREON 11)   | 2021/06/15 | 73           | 70 - 130  | 93           | 70 - 130  | <0.50        | ug/L  | NC        | 30        |
| 7402448  | Vinyl Chloride                      | 2021/06/15 | 70           | 70 - 130  | 87           | 70 - 130  | <0.20        | ug/L  | NC        | 30        |

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

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

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

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference  $\leq 2 \times \text{RDL}$ ).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.



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VERITAS

BV Labs Job #: C1F6446  
Report Date: 2021/06/15

exp Services Inc  
Client Project #: BRM-21010864-B0  
Site Location: 15450 WOODBINE AVENUE, GORMLEY  
Your P.O. #: MRK- GEO  
Sampler Initials: AS

### VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

08-Jun-21 15:25

Patricia Legette



C1F6446

AF2 ENV-1164

# Presence of Visible Particulate/Sediment

Maxxam Analytics

CAM FCD-01013/5

Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

## Bottle Types

| AF2 |           | ENV-1164 |      | Inorganics |         |    |                |                |                |            | Organics   |                   |                   |                  |                  |            |            |               |           | Hydrocarbons |           |           |              |              |     |            |            |            | Volatiles  |  |  |  | Other |
|-----|-----------|----------|------|------------|---------|----|----------------|----------------|----------------|------------|------------|-------------------|-------------------|------------------|------------------|------------|------------|---------------|-----------|--------------|-----------|-----------|--------------|--------------|-----|------------|------------|------------|------------|--|--|--|-------|
|     | Sample ID | All      | CrVI | CN         | General | Hg | Metals (Diss.) | Organic 1 of 2 | Organic 2 of 2 | PCB 1 of 2 | PCB 2 of 2 | Pest/ Herb 1 of 2 | Pest/ Herb 2 of 2 | SVOC/ ABN 1 of 2 | SVOC/ ABN 2 of 2 | PAH 1 of 2 | PAH 2 of 2 | Dioxin /Furan | F1 Vial 1 | F1 Vial 2    | F1 Vial 3 | F1 Vial 4 | F2-F4 1 of 2 | F2-F4 2 of 2 | F4G | VOC Vial 1 | VOC Vial 2 | VOC Vial 3 | VOC Vial 4 |  |  |  |       |
| 1   | MW-102    | TS       |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 2   | MW-102D   | TS       |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 3   | MW-103    | TS       |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 4   | MW-106    | TS       |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 5   |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 6   |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 7   |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 8   |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 9   |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |
| 10  |           |          |      |            |         |    |                |                |                |            |            |                   |                   |                  |                  |            |            |               |           |              |           |           |              |              |     |            |            |            |            |  |  |  |       |

Comments:

### Legend:

|    |  |
|----|--|
| P  | Suspended Particulate  |
| TS | Trace Settled Sediment (just covers bottom of container or less) |
| S  | Sediment greater than (>) Trace, but less than (<) 1 cm          |

Recorded By: (signature/print)

FAL/46-84-NDK4 FODOR



| Invoice Information   |   | Report Information (if differs from invoice)   |  | Project Information (where applicable)   |  | Turnaround Time (TAT) Required |              |  |                             |                      |   |                      |
|---|---|--|--|--|--|--------------------------------|--------------|--|-----------------------------|----------------------|---|----------------------|
| Company Name: <u>#17485 EXP Services Inc.</u>   | Company Name: <u>EXP Services Inc.</u>                            | Quotation #: <u>B91718 Stream 3</u>  | <input checked="" type="checkbox"/> Regular TAT (5-7 days) Most analyses |  | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS  |                                |              |  |                             |                      |   |                      |
| Contact Name: <u>Central Services</u>   | Contact Name: <u>So Ming Chiang; Simon Lan;</u>                   | P.O. #/ AFE#: <u>MRK-CEO</u>   | <input type="checkbox"/> Rush TAT (Surcharges will be applied)           |  | <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days |                                |              |  |                             |                      |   |                      |
| Address: <u>230 Commerce Valley Dr. W, Suite 500</u>  | Address: <u>Aleksandar Sario</u>                                  | Project #: <u>BRM-21010864-B0</u>  | Site Location: <u>15450 Woodbine Avenue, Gornley</u>                     |  | Date Required:   |                                |              |  |                             |                      |   |                      |
| Phone: <u>(905) 695-3217</u> Fax:   | Phone: <u>simon.lan@exp.com</u> Fax: <u>saming.chiang@exp.com</u> | Site #: <u>Ontario</u>   | Sampled By: <u>AS</u>  |  | Rush Confirmation #:   |                                |              |  |                             |                      |   |                      |
| Email: <u>AP@exp.com; karen.burke@exp.com</u>   | Email: <u>aleksandar.sario@exp.com</u>                            | MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY   |  |  |  |                                |              |  |                             |                      |   |                      |
| <b>Regulation 153</b><br><input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Res/Park <input type="checkbox"/> Med/ Fine<br><input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse<br><input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/ Other<br>FOR RSC (PLEASE CIRCLE) <input checked="" type="radio"/> Y <input type="radio"/> N |   | <b>Other Regulations</b><br><input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw<br><input type="checkbox"/> MISA <input type="checkbox"/> Storm Sewer Bylaw<br><input type="checkbox"/> PWQO <input type="checkbox"/> Region<br><input type="checkbox"/> Other (Specify)<br><input type="checkbox"/> REG 558 (MIN. 3 DAY TAT REQUIRED) |  | <b>Analysis Requested</b><br># OF CONTAINERS SUBMITTED<br>FIELD FILTERED (CIRCLE) Metals / Hg / CrVI<br>BTEX/ PHC F1<br>PHCs F2 - F4<br>VOCs<br>REG 153 METALS & INORGANICS<br>REG 153 ICPMS METALS<br>REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)<br>HOLD- DO NOT ANALYZE |  |                                |              | <b>LABORATORY USE ONLY</b><br>CUSTODY SEAL Y / N<br>Present Intact<br>4 7 57575<br>COOLING MEDIA PRESENT: <input checked="" type="radio"/> Y <input type="radio"/> N<br>COMMENTS |                             |                      |   |                      |
| Include Criteria on Certificate of Analysis: Y / N  |   | SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM   |  |  |  |                                |              |  |                             |                      |   |                      |
| SAMPLE IDENTIFICATION   | DATE SAMPLED (YYYY/MM/DD)   | TIME SAMPLED (HH:MM)   | MATRIX   | # OF CONTAINERS SUBMITTED  | FIELD FILTERED (CIRCLE) Metals / Hg / CrVI   | BTEX/ PHC F1                   | PHCs F2 - F4 | VOCs   | REG 153 METALS & INORGANICS | REG 153 ICPMS METALS | REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B) | HOLD- DO NOT ANALYZE |
| 1 MW-102  | 2011/06/08  | 9:23am   | GW   | 4  |  | ✓                              | ✓            | ✓  |                             |                      |   |                      |
| 2 MW-102D   |   | 9:23am   |  | 4  |  | ✓                              | ✓            | ✓  |                             |                      |   |                      |
| 3 MW-103  |   | 10:36am  |  | 4  |  | ✓                              | ✓            |  |                             |                      |   |                      |
| 4 MW-106  |   | 10:05am  |  | 4  |  | ✓                              | ✓            |  |                             |                      |   |                      |
| 5 Trip Blank Lot # 3699   |   |  |  | 2  |  |                                |              | ✓  |                             |                      |   |                      |
| 6   |   |  |  |  |  |                                |              |  |                             |                      |   |                      |
| 7   |   |  |  |  |  |                                |              |  |                             |                      |   |                      |
| 8   |   |  |  |  |  |                                |              |  |                             |                      |   |                      |
| 9   |   |  |  |  |  |                                |              |  |                             |                      |   |                      |
| 10  |   |  |  |  |  |                                |              |  |                             |                      |   |                      |
| RELINQUISHED BY: (Signature/Print)  | DATE: (YYYY/MM/DD)  | TIME: (HH:MM)  | RECEIVED BY: (Signature/Print)   |  | DATE: (YYYY/MM/DD)   | TIME: (HH:MM)                  |              |  |                             |                      |   |                      |
| <u>Aleksandar Sario</u>   | <u>2011/06/08</u>   | <u>11:30am</u>   | <u>Patricia Legette</u>  |  | <u>2011/06/08</u>  | <u>15:25</u>                   |              |  |                             |                      |   |                      |

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's standard Terms and Conditions. Signing of this Chain of Custody document is acknowledged for viewing at [www.maxxam.ca/terms](http://www.maxxam.ca/terms). Sample container, preservation, hold time and packages information can be viewed at <http://www.maxxam.ca/wp-content/uploads/Ontario-COC.pdf>.

COC-1004 (03/17)

BV#39620

08-Jun-21 15:25  
 Patricia Legette  
 C1F6446

AF2 ENV-1164

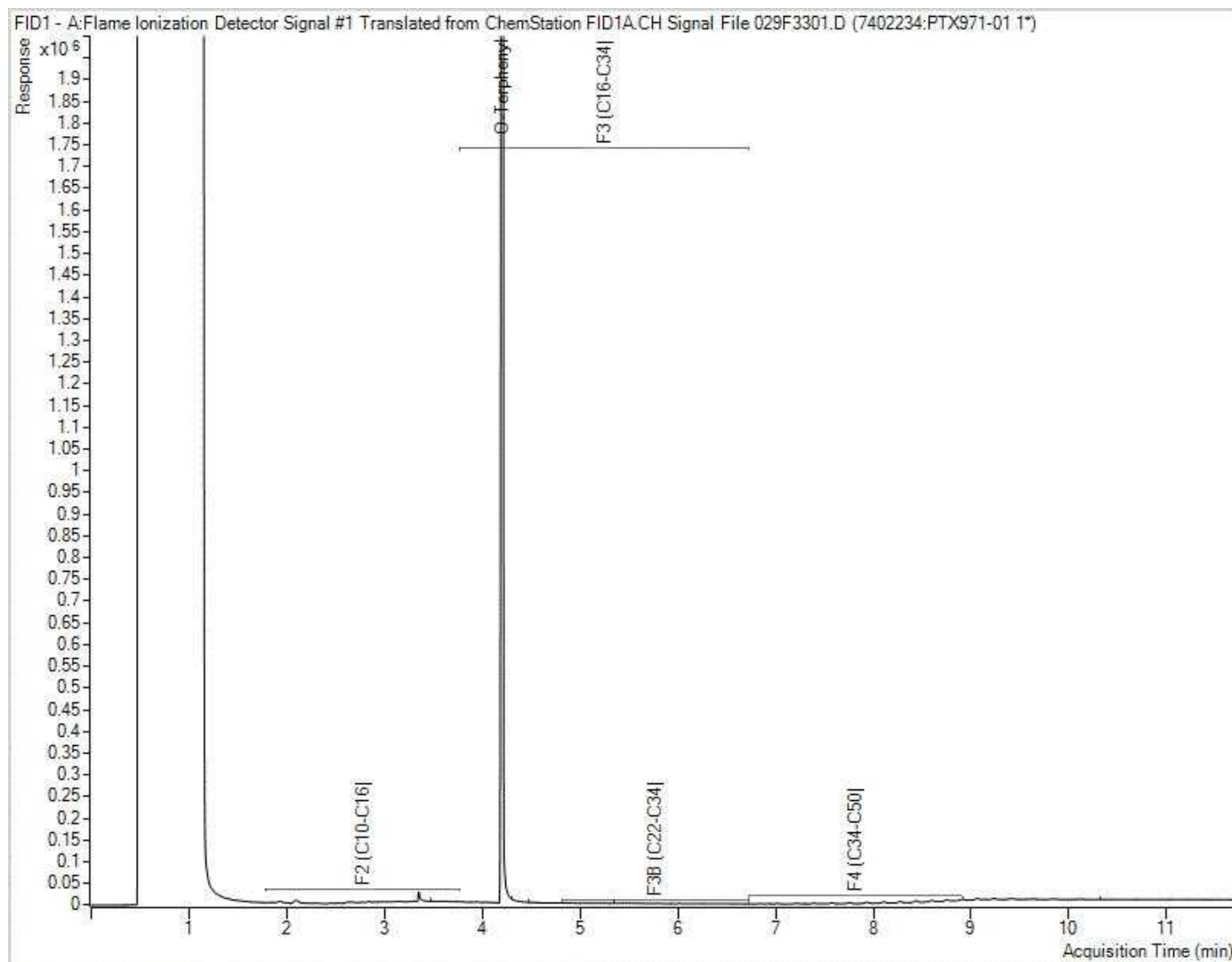
White: Maxxam - Yellow: Client



BV Labs Job #: C1F6446  
Report Date: 2021/06/15  
BV Labs Sample: PTX971

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE, GORMLEY  
Client ID: MW-102

**Petroleum Hydrocarbons F2-F4 in Water Chromatogram**

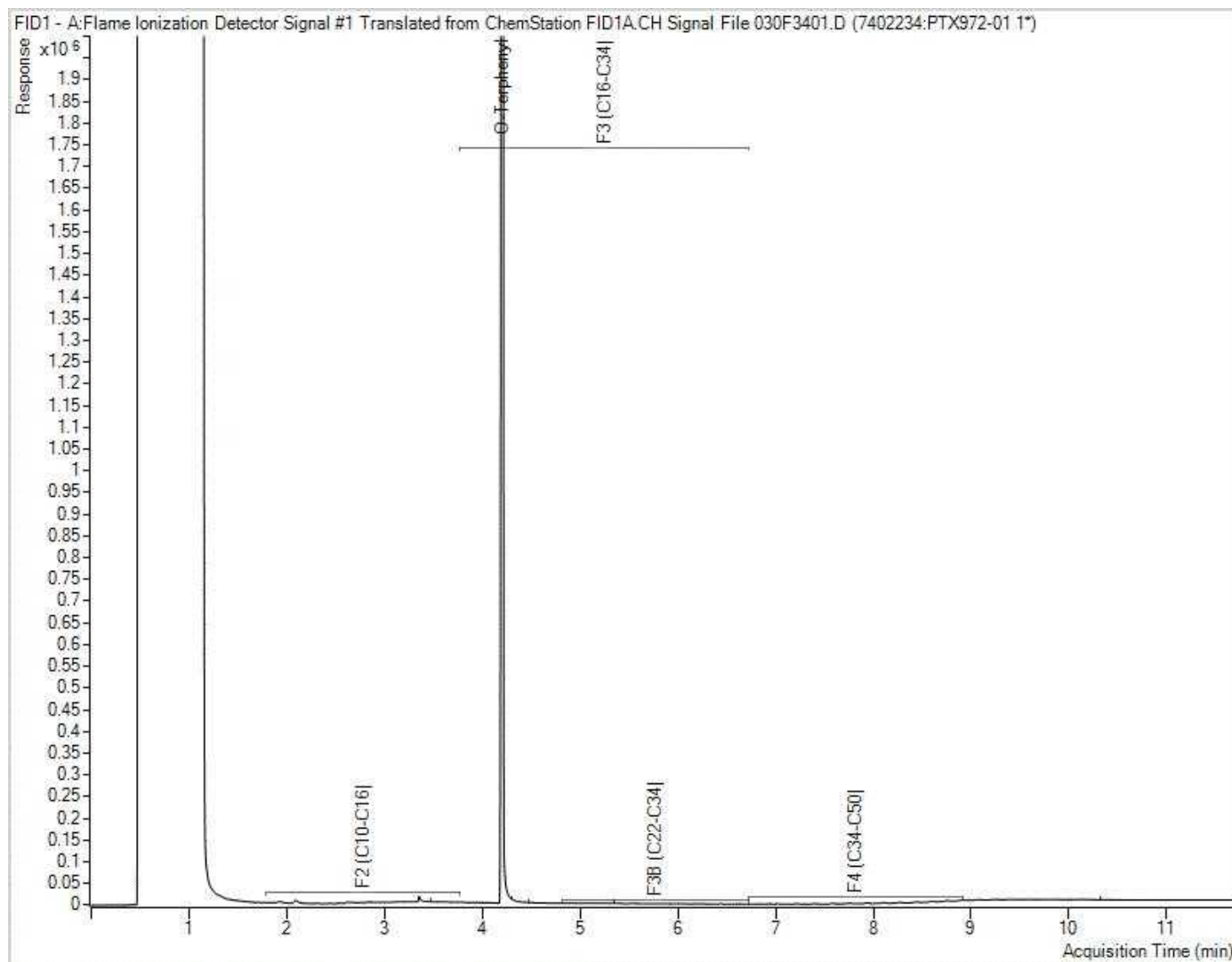


**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**

BV Labs Job #: C1F6446  
Report Date: 2021/06/15  
BV Labs Sample: PTX972

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE, GORMLEY  
Client ID: MW-102D

**Petroleum Hydrocarbons F2-F4 in Water Chromatogram**

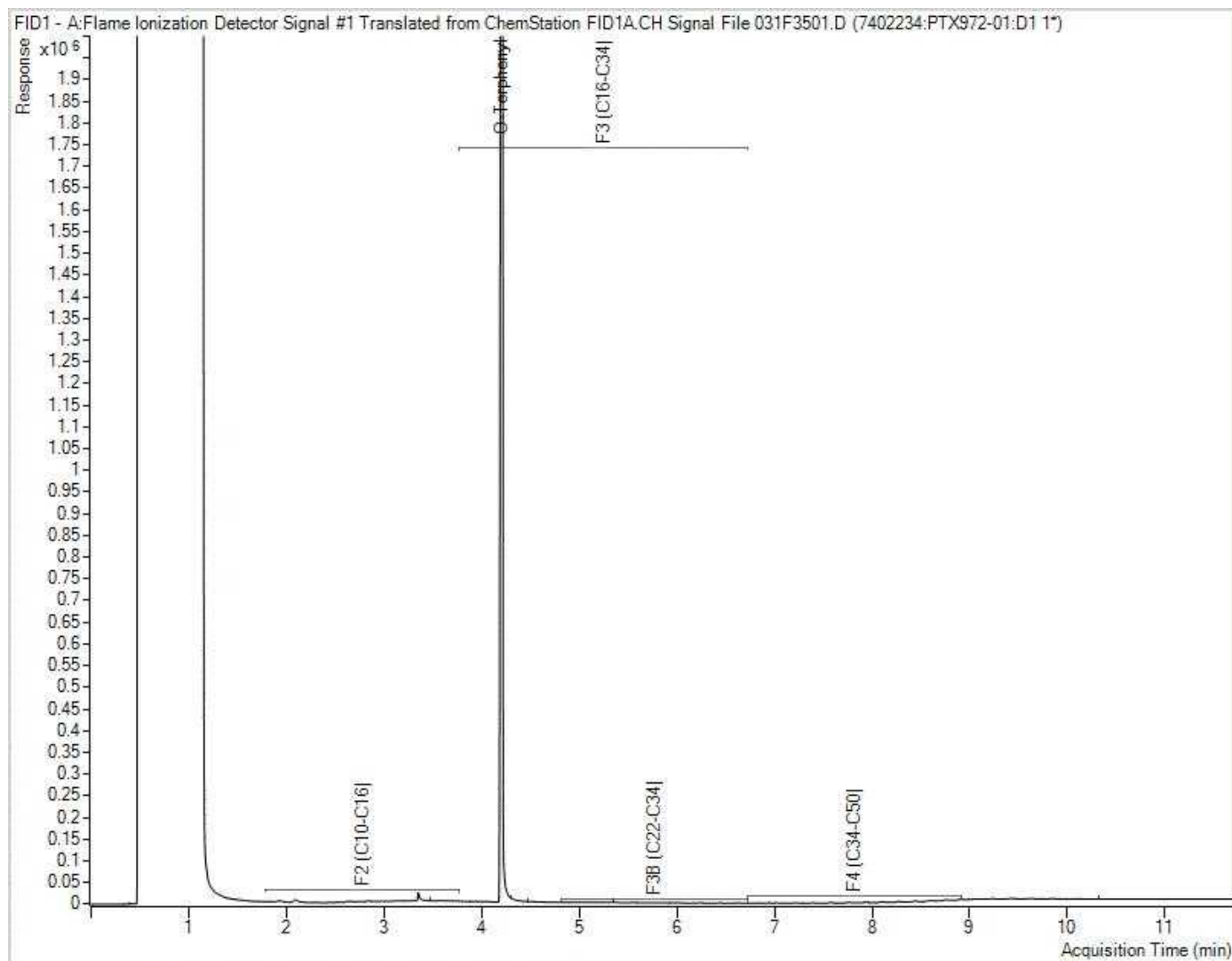


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F6446  
Report Date: 2021/06/15  
BV Labs Sample: PTX972 Lab-Dup

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE, GORMLEY  
Client ID: MW-102D

**Petroleum Hydrocarbons F2-F4 in Water Chromatogram**

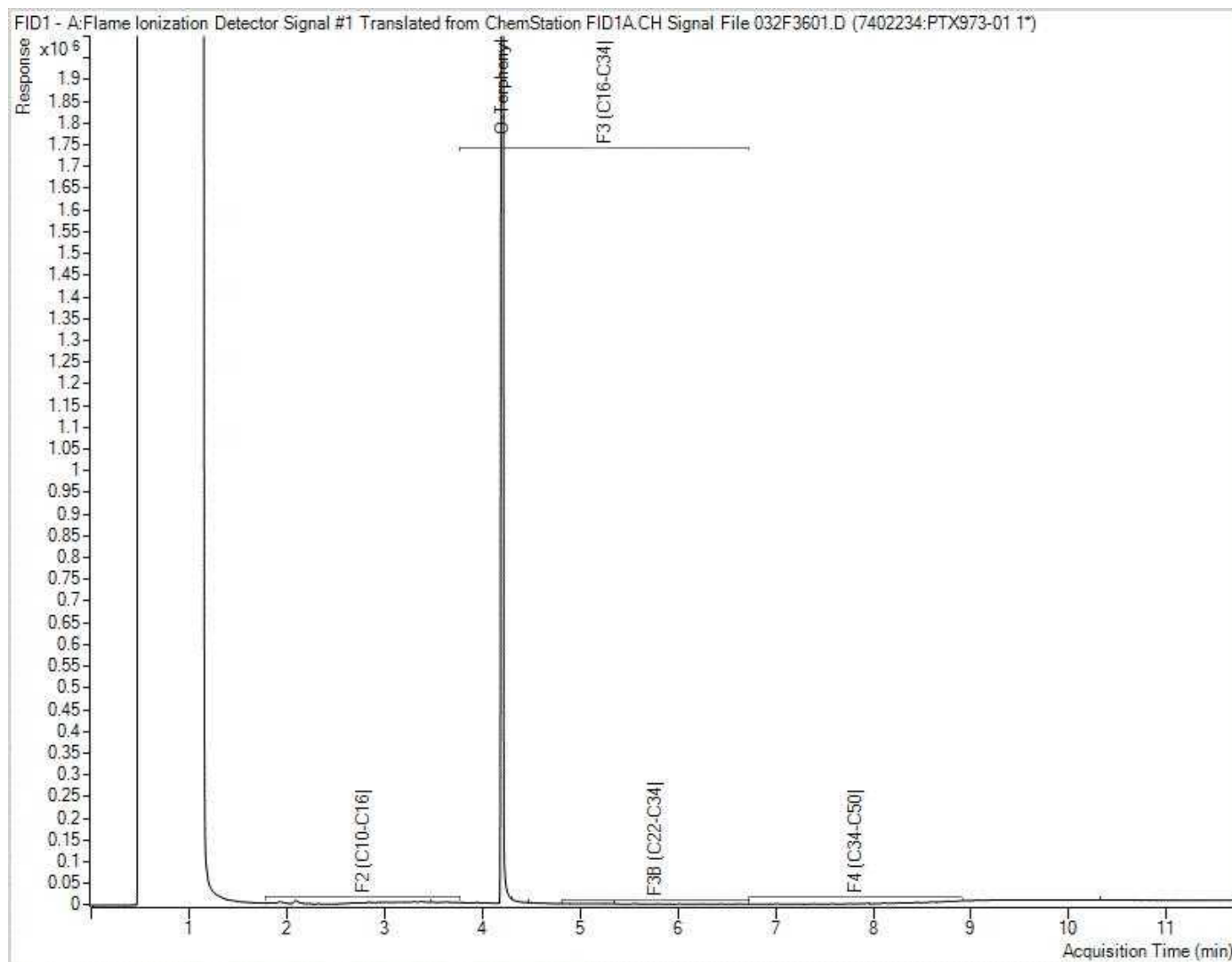


**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1F6446  
Report Date: 2021/06/15  
BV Labs Sample: PTX973

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE, GORMLEY  
Client ID: MW-103

**Petroleum Hydrocarbons F2-F4 in Water Chromatogram**

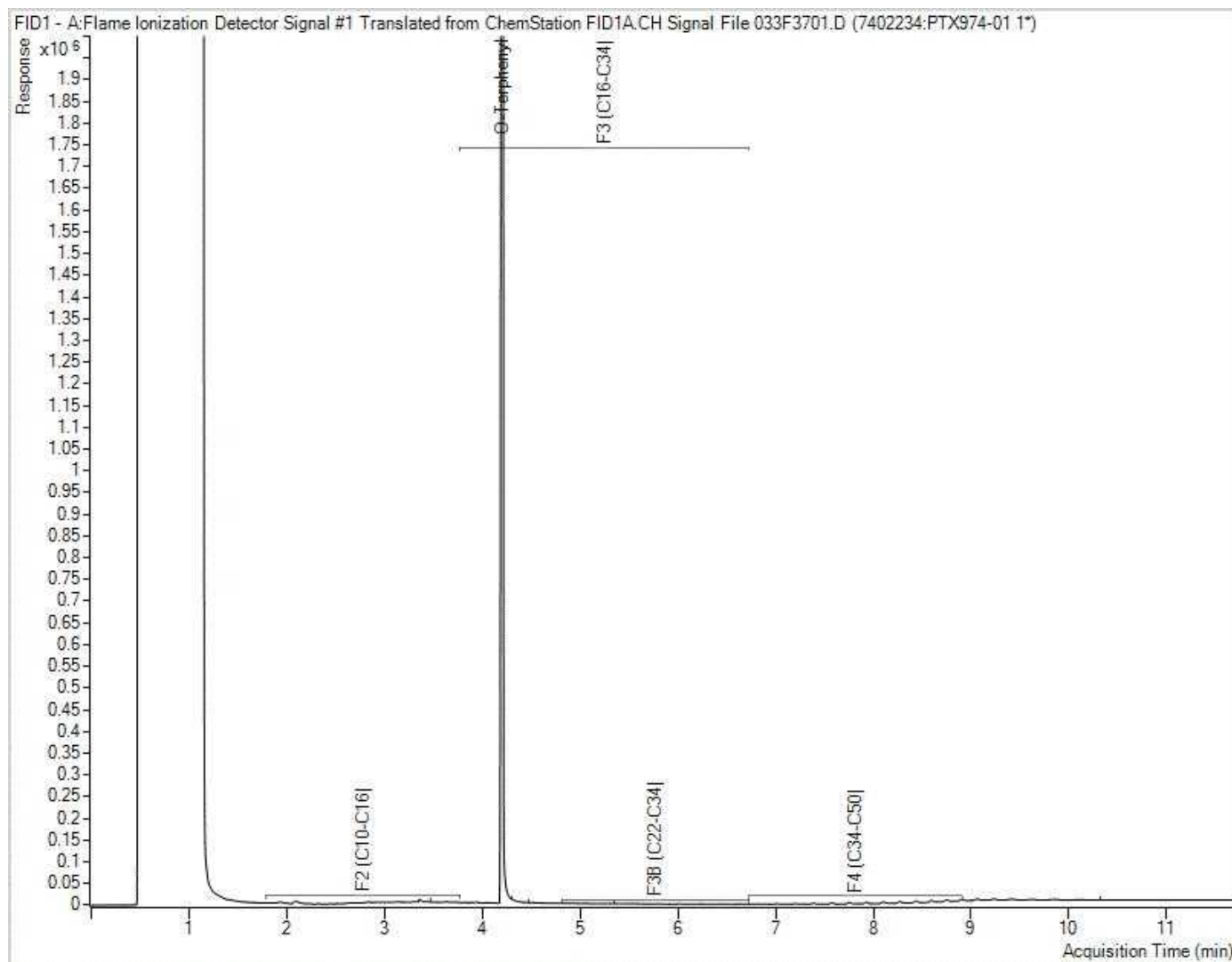


**Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.**

BV Labs Job #: C1F6446  
Report Date: 2021/06/15  
BV Labs Sample: PTX974

exp Services Inc  
Client Project #: BRM-21010864-B0  
Project name: 15450 WOODBINE AVENUE, GORMLEY  
Client ID: MW-106

**Petroleum Hydrocarbons F2-F4 in Water Chromatogram**



**Note:** This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Phase II Environmental Site Assessment  
15374 and 15450 Woodbine Avenue, Gormley, Ontario  
Project Number: BRM-21010864-B0  
June 17, 2021

## **Appendix E – Grain Size Analysis Results**



exp Services Inc.  
1595 Clark Boulevard, Brampton  
Ontario, Canada, L6T 4V1  
Telephone: (905) 793-9800  
Fax: (905) 793-0641

# Grain Size Analysis & Hydrometer Test Report

ST08

Sample Test No.: 370684-1

Report No.: 1

Date Reported: 15-Jun-21

Project No.: brm-21010864-a0 c100

Project Name: Preliminary Geo. Investigation & Phase I ESA

## Grain Size Proportion (%)

Gravel (> 4.75mm): 0.3  
Sand (> 75µm, < 4.75mm): 7.3  
Silt (> 2µm, < 75µm): 69.2  
Clay (< 2µm): 23.2  
Total: 100.0

## Sample Information

Location: BH 6

Sample Method: SS

Sample No.:

Depth: 1.5 - 2.0 m

Sample Description: Clayey Silt, trace Sand and Gravel; Brown

Sampled By: exp Markham

Sampling Date: 5/27/2021

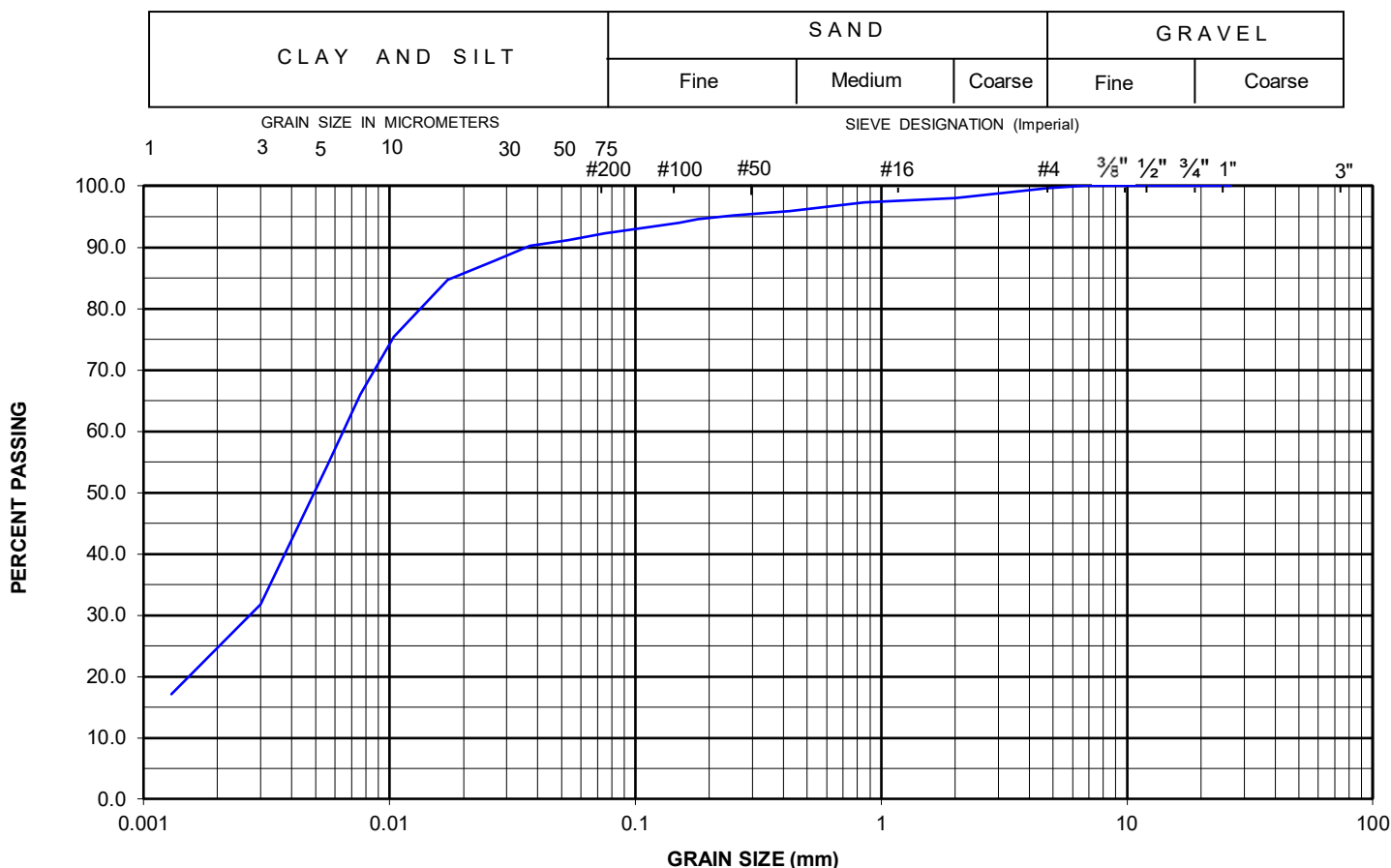
Date Received: 6/9/2021

Client Sample ID:

Comments:

| Grain Size (mm) | % Passing | Grain Size (mm) | % Passing |
|-----------------|-----------|-----------------|-----------|
| 26.5            | 100.0     | 0.0374          | 90.3      |
| 22.4            | 100.0     | 0.0268          | 87.9      |
| 19              | 100.0     | 0.0172          | 84.7      |
| 16              | 100.0     | 0.0104          | 75.4      |
| 13.2            | 100.0     | 0.0076          | 66.0      |
| 12.5            | 100.0     | 0.0056          | 54.5      |
| 9.5             | 100.0     | 0.0030          | 31.8      |
| 6.7             | 100.0     | 0.0013          | 17.1      |
| 4.75            | 99.7      |                 |           |
| 2               | 98.1      |                 |           |
| 0.85            | 97.3      |                 |           |
| 0.425           | 96.0      |                 |           |
| 0.25            | 95.2      |                 |           |
| 0.18            | 94.6      |                 |           |
| 0.15            | 94.1      |                 |           |
| 0.075           | 92.3      |                 |           |
| 0.053           | 91.2      |                 |           |

## UNIFIED SOIL CLASSIFICATION SYSTEM



Project Manager: Clement Chow

Approved By: Original Signed By  
Willie Rodych, Lab Supervisor

Date Approved: 15-Jun-21



exp Services Inc.  
1595 Clark Boulevard, Brampton  
Ontario, Canada, L6T 4V1  
Telephone: (905) 793-9800  
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# Grain Size Analysis & Hydrometer Test Report

ST08

Sample Test No.: 370685-1

Report No.: 2

Date Reported: 15-Jun-21

Project No.: brm-21010864-a0 c100

Project Name: Preliminary Geo. Investigation & Phase I ESA

## Grain Size Proportion (%)

Gravel (> 4.75mm): 1.8  
Sand (> 75µm, < 4.75mm): 41.9  
Silt (> 2µm, < 75µm): 43.3  
Clay (< 2µm): 13.0  
Total: 100.0

## Sample Information

Location: BH 11

Sample Method: SS

Sample No.:

Depth: 1.5 - 2.0 m

Sample Description: Silt and Sand, some Clay; trace Gravel; Brown

Sampled By: exp Markham

Sampling Date: 5/27/2021

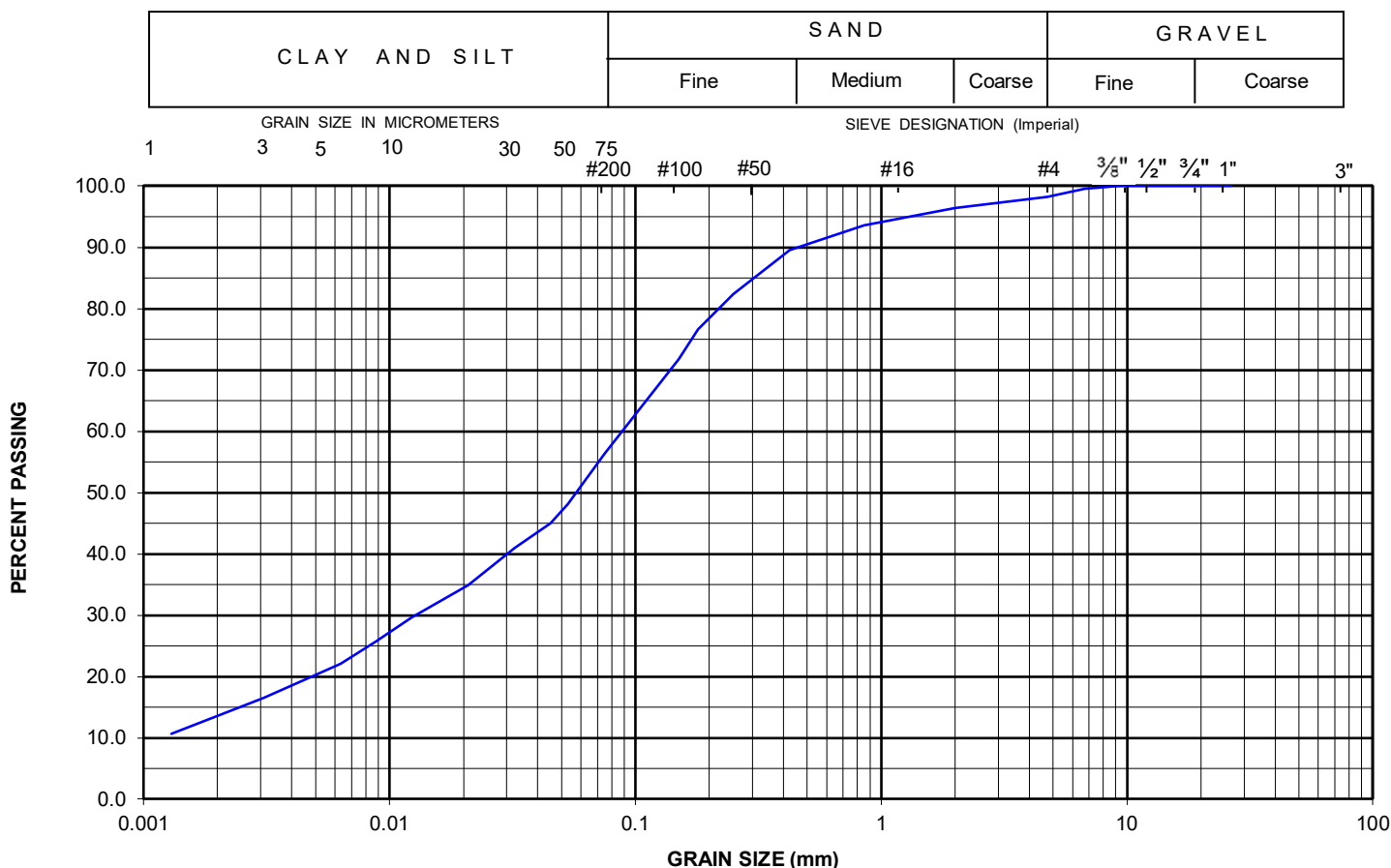
Date Received: 6/9/2021

Client Sample ID:

Comments:

| Grain Size (mm) | % Passing | Grain Size (mm) | % Passing |
|-----------------|-----------|-----------------|-----------|
| 26.5            | 100.0     | 0.0451          | 45.0      |
| 22.4            | 100.0     | 0.0323          | 41.0      |
| 19              | 100.0     | 0.0209          | 34.9      |
| 16              | 100.0     | 0.0123          | 29.7      |
| 13.2            | 100.0     | 0.0088          | 25.7      |
| 12.5            | 100.0     | 0.0063          | 22.1      |
| 9.5             | 100.0     | 0.0031          | 16.5      |
| 6.7             | 99.5      | 0.0013          | 10.7      |
| 4.75            | 98.2      |                 |           |
| 2               | 96.4      |                 |           |
| 0.85            | 93.6      |                 |           |
| 0.425           | 89.6      |                 |           |
| 0.25            | 82.4      |                 |           |
| 0.18            | 76.7      |                 |           |
| 0.15            | 71.9      |                 |           |
| 0.075           | 56.3      |                 |           |
| 0.053           | 48.2      |                 |           |

## UNIFIED SOIL CLASSIFICATION SYSTEM



Project Manager: Clement Chow

Approved By: Original Signed By  
Willie Rodych, Lab Supervisor

Date Approved: 15-Jun-21





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# Grain Size Analysis Test Report

ST06-Soil

Sample Test No.: 370686-1

Report No.: 1

Date Reported: 14-Jun-2021

Project No.: brm-21010864-a0 c100

Project Name: Preliminary Geo. Investigation & Phase I ESA

## Sample Information

Borehole No.: BH 12

Sample Method: SS

Sample No.:

Depth: 0.75 - 1.2 m

Sample Description:

Sampled By: exp Markham

Sampling Date: 27-May-2021

Date Received: 9-Jun-2021

Client Sample ID:

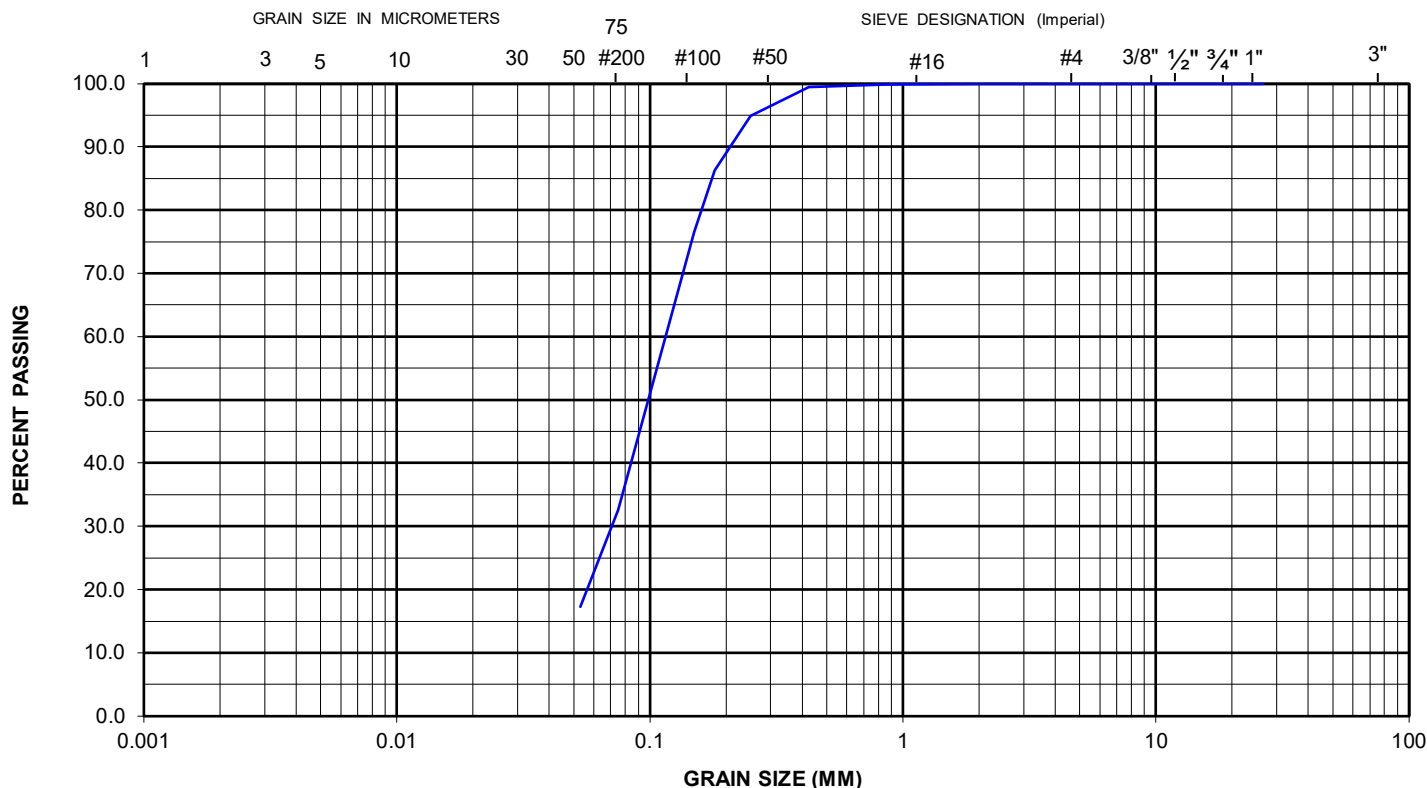
Comments:

| Sieve Size<br>(mm) | % Passing |
|--------------------|-----------|
|                    | Sample    |
| 26.5               | 100.0     |
| 22.4               | 100.0     |
| 19.0               | 100.0     |
| 16.0               | 100.0     |
| 13.2               | 100.0     |
| 12.7               | 100.0     |
| 9.5                | 100.0     |
| 6.7                | 100.0     |
| 4.75               | 100.0     |
| 2.00               | 100.0     |
| 0.850              | 99.8      |
| 0.425              | 99.5      |
| 0.250              | 94.9      |
| 0.180              | 86.3      |
| 0.150              | 76.6      |
| 0.075              | 32.5      |
| 0.053              | 17.4      |

Notes: \*Out of Specification

## UNIFIED SOIL CLASSIFICATION SYSTEM

| CLAY AND SILT | SAND |        |        | GRAVEL |        |
|---------------|------|--------|--------|--------|--------|
|               | Fine | Medium | Coarse | Fine   | Coarse |



Project Manager: Clement Chow

Approved By: Original Signed By  
Willie Rodych

Date Approved: 14-Jun-2021