



**REPORT ON
PHASE II ENVIRONMENTAL SITE ASSESSMENT
3575 KANEFF CRESCENT
MISSISSAUGA, ONTARIO**

**REPORT NO.: 6027-22-EB
REPORT DATE: MAY 1, 2022**

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FIGURES

Site Location Map
Borehole and Monitoring Well Location Plan
Soil Exceedance Location Plan

Figure No. 1
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Figure No. 3

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1.0 EXECUTIVE SUMMARY

Toronto Inspection Ltd. was retained by Kaneff Group of Companies to conduct a Phase II Environmental Site Assessment (ESA) for the property located at 3575 Kaneff Crescent in Mississauga, Ontario (hereinafter referred to as the "Site. The work was performed as per *Toronto Inspection Ltd.*'s standard terms and agreement.

The objective of this Phase II ESA was to determine the presence or absence of contamination in the subsoil and groundwater with respect to the potentially contaminating activities identified at the Site and surrounding areas. It is understood that the Phase II ESA was commissioned for due diligence in support of a financing agreement and that this Phase II ESA cannot be used to support the filing of a Record of Site Condition (RSC).

The Site, approximately 0.27 Ha in area and close to rectangle in shape, is bounded by Kaneff Crescent on the north side, Mississauga Valley Boulevard on the east side, Elm Drive East on the south side and Obelisk Way on the west side, approximately 200 m west of Hurontario Street, in Mississauga, Ontario. At the time of the investigation, the Site was occupied by a paved parking lot and associated landscape areas located on the perimeter.

The following report was reviewed as part of this Phase II ESA:

- *"A Report to Kaneff Properties Limited, Phase One Environmental Site Assessment, Proposed 26-Storey Rental Tower, Kaneff Crescent and Mississauga Valley Blvd, City Mississauga, Ontario", prepared by Soil Engineers Ltd., dated March 11, 2020, prepared for Kaneff Properties Limited, Reference No. 2001-E013.*

In summary, the historical and current activities from on-Site and off-Site sources, as identified in this Phase I ESA, represent potential environmental concerns which may adversely impact the subsurface conditions of the Site. Identified sources of potential environmental concern are summarized below:

On-Site Sources:

- The potential presence of fill materials of unknown quality at the subject site.

Off-Site Sources:

- Former dry cleaner at the neighbouring property to the east of the subject site. Review of this concern identified that it was located over 200 m from the Site in a downgradient orientation. Therefore, *TIL* has concluded that potential environmental concern to the Site was considered to be low.
- Former photo studio at the neighbouring property to the east of the subject site. Review of this concern identified that it was located over 200 m from the Site in a downgradient orientation. Therefore, *TIL* has concluded that potential environmental concern to the Site was considered to be low.

- Industrial machinery manufacturing at the neighbouring property to the south of the subject site. Review of this concern identified that it was located over 150 m from the Site in a trans-gradient orientation. Therefore, TIL has concluded that potential environmental concern to the Site was considered to be low.

Based on the findings of the Phase I ESA, it was *Soil Engineers Ltd.*'s opinion that further environmental investigation (a Phase II ESA) was recommended for the Site.

A summary of the findings of the Phase II ESA conducted at the Site are presented below:

- A total of eight (8) boreholes were advanced ranging in depths from 3.5 m to 6.6 m below grade (bg). All boreholes were drilled at exterior locations as access was not provided in the interior portions of the building.
- Underlying the surface course, fill material underlain by clayey silt and shale bedrock was encountered at the Site.
- Measured groundwater levels on in the monitoring well ranged from 7.1 m to 8.5 m below grade in the monitoring wells.
- Representative or "worst-case" soil samples were collected in laboratory-supplied containers, placed in a cooler and preserved with ice, and shipped with a Chain of Custody to SGS Canada Inc. located in Lakefield, Ontario for laboratory analyses.
- The MECP Table 3 Full Depth Generic Site Condition Standards (SCS) for use in a Non-Potable Groundwater Condition as listed in the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011 for Residential/Parkland/Institutional property use with coarse textured soils were determined to be applicable for the Site.
- Discrete "worst-case" samples collected from borehole locations were submitted for laboratory analyses. A total of ten (10) discrete soil samples were analyzed for the following analytical parameter groups: M&Is and PAHs.
- The concentrations of PHCs, VOCs, M&Is and PAHs in all analyzed soil samples at the tested locations met their MECP Table 9 SCS for Residential/Parkland/Institutional/Industrial/Commercial/Community property use with all textured soils with the following exceptions:
 - Various salt related (Electrical Conductivity/Sodium Adsorption Ratio) soil exceedances within the fill material.
 - Zinc soil exceedance of 600 ug/g vs. the MECP Table 3 SCS of 340 ug/g at borehole location 21BH-1(MW) at a depth of 1.5 m below grade.
 - Fluoranthene soil exceedance of 1.06 ug/g vs. the MECP Table 3 SCS of 0.69 ug/g at borehole location 21BH-6 at a depth of 0.7 m below grade.

Salt related parameters of Electrical Conductivity and Sodium Adsorption Ratio were identified to exceed the MECP Table 3 SCS within the fill material to depths of up to 4.5 m below grade which can be attributed to the use of deicing salts within the asphalt paved parking areas within the winter months. Additionally, Zinc and Fluoranthene were found to exceed the MECP Table 3 SCS within the shallow soils at boreholes 21BH-1 and 21BH-6 which can be attributed to the importation of fill material of poor quality. Given that all of the soil will be excavated and disposed off-site from lot line to lot line for the construction of the proposed residential building, it is recommended that the soil exceeding the MECP Table 3 SCS be dealt with at time of site redevelopment. No further investigation is recommended at this time.

2.0 INTRODUCTION

Toronto Inspection Ltd. was retained by Kaneff Group of Companies to conduct a Phase II Environmental Site Assessment (ESA) for the property located at 3575 Kaneff Crescent in Mississauga, Ontario (hereinafter referred to as the "Site. The work was performed as per *Toronto Inspection Ltd.*'s standard terms and agreement.

2.1 OBJECTIVES

The objective of this Phase II ESA was to determine the presence or absence of contamination in the subsoil and groundwater with respect to the potentially contaminating activities identified at the Site and surrounding areas. It is understood that the Phase II ESA was commissioned for due diligence in support of a financing agreement and that this Phase II ESA cannot be used to support the filing of a Record of Site Condition (RSC).

2.2 SITE DESCRIPTION

The Site, approximately 0.27 Ha in area and close to rectangle in shape, is bounded by Kaneff Crescent on the north side, Mississauga Valley Boulevard on the east side, Elm Drive East on the south side and Obelisk Way on the west side, approximately 200 m west of Hurontario Street, in Mississauga, Ontario. At the time of the investigation, the Site was occupied by a paved parking lot and associated landscape areas located on the perimeter.

The Site is shown below as Image 1:



Image 1: Aerial image of Site located 3575 Kaneff Crescent, Mississauga, Ontario
(Source: Mississauga Interactive Map, 2021)

Maps showing the Study Area, the Site Layout and the topographic map are provided in Appendix A.

3.0 BACKGROUND INFORMATION

3.1 PHYSICAL SETTING

Access was provided via a driveway at the northwest portion of the Site. The Site was primarily asphalt covered and used as a parking lot. Tree cover was present at the north landscape area with some scattered trees present on the east and south portion of the Site.

3.2 AREAS OF NATURAL SIGNIFICANCE

The Site is not located within or adjacent to any environmentally significant areas, provincially significant wetlands, or areas of natural and scientific interest. There is a woodland alongside the eastern border of the Site.

3.3 PAST INVESTIGATIONS

The following report was reviewed as part of this Phase II ESA:

- *“A Report to Kaneff Properties Limited, Phase One Environmental Site Assessment, Proposed 26-Storey Rental Tower, Kaneff Crescent and Mississauga Valley Blvd, City Mississauga, Ontario”, prepared by Soil Engineers Ltd., dated March 11, 2020, prepared for Kaneff Properties Limited, Reference No. 2001-E013.*

In summary, the historical and current activities from on-Site and off-Site sources, as identified in this Phase I ESA, represent potential environmental concerns which may adversely impact the subsurface conditions of the Site. Identified sources of potential environmental concern are summarized below:

On-Site Sources:

- The potential presence of fill materials of unknown quality at the subject site.

Off-Site Sources:

- Former dry cleaner at the neighbouring property to the east of the subject site. Review of this concern identified that it was located over 200 m from the Site in a downgradient orientation. Therefore, TIL has concluded that potential environmental concern to the Site was considered to be low.
- Former photo studio at the neighbouring property to the east of the subject site. Review of this concern identified that it was located over 200 m from the Site in a downgradient orientation. Therefore, TIL has concluded that potential environmental concern to the Site was considered to be low.



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- Industrial machinery manufacturing at the neighbouring property to the south of the subject site. Review of this concern identified that it was located over 150 m from the Site in a trans-gradient orientation. Therefore, *TIL* has concluded that potential environmental concern to the Site was considered to be low.

Based on the findings of the Phase I ESA, it was *Soil Engineers Ltd.*'s opinion that further environmental investigation (a Phase II ESA) was recommended for the Site.

4.0 SCOPE OF WORK

The Phase II ESA was conducted in general accordance with the Canadian Standard Association (CSA) Standard Z769-00 reaffirmed 2013, "Phase II Environmental Site Assessment". Field work and analytical testing were conducted in general accordance with protocols as set out in the "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, Revised December 1996, Ministry of Environment and Energy", and "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011".

The scope of work for this Phase II ESA comprised the following:

- Developed a site-specific Sampling Analysis Plan (SAP);
- Ensured all public and private utilities at the Site were located and marked out prior to drilling;
- Drilled seven (7) boreholes in conjunction with a geotechnical investigation ranging in depths from 5.9 m to 7.9 m below grade (bg), shown on Figure No. 3;
- Collected soil samples during borehole drilling, and logged the soil samples for visual and olfactory characteristics, and evidence of petroleum hydrocarbon and/or chemical impact;
- Installed a groundwater monitoring well at borehole locations 21BH-1(MW), 21BH-2(MW), and 21BH-5(MW);
- Measured soil headspace vapor concentrations in the soil samples for field screening purposes;
- Submitted representative or "worst case" soil samples for laboratory analyses of Metals and Inorganics (M&Is) and Polycyclic Aromatic Hydrocarbons (PAHs);
- Inspected the monitoring wells for presence of Light Non-Aqueous Phase Liquid (LNAPL);
- Determined the applicable Site Condition Standards (SCS) from the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011, and the Ontario Regulation (O. Reg.) 153/04 "Record of Site Condition – Part XV.1 of the Environmental Protection Act"; and
- Prepared a report that evaluated the laboratory analytical results with respect to the SCS and interpreted the findings of the Phase II.

4.1 DEVIATIONS AND IMPEDIMENTS

No deviations or impediments were encountered as part of this Phase II ESA.

5.0 INVESTIGATION METHOD

5.1 FIELD PREPARATION

Prior to drilling at the Site, *Toronto Inspection Ltd.* contacted Ontario One Call to obtain clearance from public utility companies for borehole locations. In addition, *Toronto Inspection Ltd.* contracted a private locating company to clear the borehole locations of any private utilities at the Site.

A site-specific health and safety plan (HASP) was prepared by *Toronto Inspection Ltd.* prior to the field work. The HASP was reviewed by all workers including staff from *Toronto Inspection Ltd.* and subcontractors prior to the commencement of work on the Site. The borehole and monitoring well locations are shown on Figure 3.

5.2 SAMPLING ANALYSIS PLAN

A Sampling and Analysis Plan (SAP) was developed to, in general, address the potential environmental concerns as identified in the Phase I report. The rationale of the field investigation and laboratory analyses are summarized in Table 5.2-1.

Table 5.2-1: Sampling and Analysis Plan

| Sample ID | Soil or Groundwater | Sample Depth (m bg)/(Well Screen) | Analyzed Parameters |
|------------|---------------------|-----------------------------------|---------------------|
| 21BH-1(MW) | Soil | 1.5 | M&I, PAH |
| 21BH-2(MW) | Soil | 4.5 | M&I, PAH |
| 21BH-3 | Soil | 4.5 | M&I, PAH |
| 21BH-4 | Soil | 2.3 | M&I, PAH |
| 21BH-5(MW) | Soil | 0.7 | M&I, PAH |
| 21BH-6 | Soil | 0.7 | M&I, PAH |
| | | 6.1 | M&I, PAH |
| 22BH-7 | Soil | 0.3 | M&I, PAH |
| | | 4.5 | M&I, PAH |
| Dup-A | Soil | 1.5 | M&I, PAH |

6.0 FIELD INVESTIGATION

6.1 BOREHOLE DRILLING

Between March 9 and 14, 2022, *Toronto Inspection Ltd.* retained a drilling contractor, with a Ministry of the Environment, Conservation and Parks (MECP) issued license for well installation, to advance seven (7) boreholes at locations shown on Figure No. 3. The boreholes were drilled using a track-mounted drilling rig for the borehole locations. The borehole locations were selected with consideration of buried utility lines at the Site to assess the potential environmental concerns as indicated in Section 5.2-1 – Sampling and Analysis Plan.

6.2 SOIL SAMPLING AND FIELD SCREENING

Soil samples were typically obtained at intervals of 0.75 m to a depth of 3.1 m bg, and at intervals of 1.5 m below 3.1 m to the terminating depths of the boreholes. Each of the soil samples were logged in the field for visual and olfactory characteristics, and any evidence of petroleum hydrocarbon and/or chemical impact. Soil headspace vapour concentrations were measured using an RKI Model Eagle 2 portable gas detector equipped with a dual sensor, a photoionization (PID) sensor for detecting VOC gases and a thermal conductivity (TC) sensor for detecting hydrocarbons. The Eagle 2 portable gas detector was set to methane elimination mode and calibrated with hexane (for the TC sensor) and isobutylene (for the PID sensor).

The split spoon sampler was cleaned prior to the collection of each sample. A new pair of nitrile gloves were used to handle each of the soil samples.

Representative or “worst-case” soil samples were collected in laboratory-supplied containers, placed in a cooler and preserved with ice, and shipped with a Chain of Custody to SGS Canada Inc. located in Lakefield, Ontario for laboratory analyses. SGS Canada Inc. is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA).

The borehole logs showing the soil conditions encountered in the boreholes and measured soil headspace vapour concentrations for the soil samples are presented in Appendix A.

6.3 MONITORING WELL INSTALLATION

Boreholes 21BH-1(MW), 21BH-2(MW) and 21BH-5(MW) were completed as a monitoring well using 50 mm diameter well screen (No. 10 slot) fitted with 50 mm diameter Schedule 40 PVC riser pipe. The annuli of the monitoring well around the well screen was filled with silica sand to approximately 0.6 m above the well screen. The remainder of the monitoring well was backfilled with bentonite pellets (i.e., hole plug) and activated with distilled water. The monitoring well was completed with a metal casing and cover, flushed to the existing ground surface.

Details of the monitoring well construction are provided in the boreholes, in Appendix A.

6.4 GROUNDWATER MONITORING AND SAMPLING

The monitoring wells were installed in conjunction with a geotechnical investigation. As there were no potential environmental concerns identified in the groundwater, no groundwater sampling was conducted at the Site.

6.5 LABORATORY ANALYSIS

Soil samples collected during the Phase II ESA were submitted for laboratory analyses as indicated in the SAP, shown in Table 5.2-1.

6.6 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) MEASURES

Various quality QA/QC protocols were followed during the Phase II ESA to ensure that representative samples were obtained, and that representative analytical data were reported by the laboratory.

The laboratory Quality Assurance/Quality Control (QA/QC) analyses performed by SGS included method blanks, laboratory duplicates, laboratory control samples (or spike blanks), matrix spikes, surrogate percent recoveries, and the use of laboratory reference materials. No field QA/QC samples were collected as part of this Phase II ESA.

6.7 SITE CONDITION STANDARD SELECTION

The following conditions were considered to determine the applicable Site Condition Standard for the Site.

Table 6.8-1: Applicable Site Conditions

| Condition | Evaluation |
|-------------------------------------|--|
| Current land use | Community |
| Proposed land use | Residential |
| Area of natural significance | The Site is not located within or adjacent to any environmentally significant areas, provincially significant wetlands, or areas of natural and scientific interest. |
| Proximity to surface water body | A watercourse was located approximately 90 m north of the Site. |
| Potable or Non-Potable Ground Water | No water services were present at the Site. The study area was serviced by the City of Mississauga which sources potable water from Lake Ontario. |
| Soil pH | Accredited laboratory chemical test results indicated that the soil at the property had a pH value between 5 and 9. |
| Depth to bedrock | Bedrock was located at an approximate depth of 6 m below grade. |
| Soil texture | Coarse textured soils were considered for the Site. |

Based on the above conditions, the MECP Table Full Depth Generic Site Condition Standards



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(SCS) for use in a Non-Potable Groundwater Condition as listed in the “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, dated April 15, 2011 (hereinafter refer to as the “MECP Table 3 SCS”) for Residential/Parkland/Institutional property use with coarse textured soils were determined to be applicable for the Site.

7.0 REVIEW AND EVALUATION

7.1 SOIL STRATIGRAPHY

Surface Course

Topsoil, approximately 75mm in thickness, was contacted at the ground surface at boreholes 22BH-6 and 22BH-7.

Asphalt pavement, consisting of 40mm of asphalt over granular bases, extending to depths of 0.9m to 0.45m from grade, was contacted at the ground surface at boreholes 22BH-1 to 22BH-5.

Fill

Underlying the topsoil and the asphalt pavement at the ground surface, a layer of fill was contacted at all borehole locations. The fill consisted of a mixture of clayey silt, sandy silt, trace to some gravel or silty sand, with scattered isolated topsoil, organics or concrete pieces.

Borehole 22BH-7 was terminated in the fill at a depth of 5.9m from grade. The fill, at the remaining borehole locations, extended to depths varying from 2.3m to 6.6m from grade.

Clayey Silt

Underlying the fill, a native clayey silt deposit was contacted, at depths of 2.3m and 5.6m from grade, at boreholes 22BH-5 and 22BH-6, respectively. The clayey silt deposit contained seams of fine sand or silt, shale pieces near the bottom of the deposit.

Borehole 22BH-6 was terminated in the clayey silt deposit at a depth of 5.9m from grade. The clayey silt deposit at borehole 22BH-5 extended to a depth of 3.5m from grade.

Based on the Standard Penetration N-values of 7 to 85 blows for a penetration of 0.3m, the consistency of the clayey silt deposit was firm to hard.

The in-situ moisture content of the soil samples from this deposit ranged from 10% to 17%, indicating moist to very moist conditions.

Shale

Weathered shale was contacted below the fill and the clayey silt deposit at depths of 3.0m to 6.6m from grade at boreholes 22BH-1 to 22BH-5. The weathered shale extended to depths of 5.9m to 7.9m from grade, where refusal to augering was encountered. The weathered shale was stratified, with seams of clayey silt.

Based on the Standard Penetration N-values, more than 100 blows for a penetration of 300mm, the consistency of the weathered shale was hard.

The in-situ moisture content of the soil samples retrieved from the weathered shale ranged from 3% to 13%, indicating moist conditions.

Field Observations

No visual or olfactory evidence of impacts were identified in the soil samples.

Soil Vapour Concentrations

Vapor concentrations measured in the soil samples collected during the drilling investigation were measured above at values below 5 parts per million (ppm).

7.2 GROUNDWATER

No LNAPL was identified in the monitoring well during groundwater monitoring. Measured groundwater depths are summarized in Table 7.2-1 below.

Table 7.2-1: Groundwater Elevations

| Monitoring Well Location | Date Measured | Water Depth (m bg) |
|--------------------------|----------------|--------------------|
| 21BH-1(MW) | March 23, 2022 | 7.31 |
| 21BH-2(MW) | March 23, 2022 | 8.53 |
| 21BH-5(MW) | March 23, 2022 | 7.01 |

7.3 LABORATORY ANALYTICAL RESULTS

Copies of the Laboratory Certificates of Analyses showing the results of the analyzed soil and groundwater samples are presented in Appendix B.

7.3.1 SOIL QUALITY

Discrete “worst-case” samples collected from borehole locations were submitted for laboratory analyses. A total of ten (10) discrete soil samples were analyzed for the parameter groups of M&Is and PAHs. The concentrations of M&Is and PAHs in all analyzed soil samples at the tested locations met their MECP Table 3 SCS for Residential/Parkland/Institutional property use with coarse textured soils with the following exceptions:

EXCEEDANCE SUMMARY

| | | | | REG153 / SOIL / COARSE - TABLE 3 - Residential/Parklan d - UNDEFINED |
|-----------|--------|-------|--------|--|
| Parameter | Method | Units | Result | L1 |

22BH-1 (MW) SS3

| | | | | |
|--------------|--------------------|-------|------|-----|
| Zinc | EPA 3050/EPA 200.8 | µg/g | 600 | 340 |
| Conductivity | EPA 6010/SM 2510 | mS/cm | 0.88 | 0.7 |

22BH-2 (MW) SS5

| | | | | |
|--------------|------------------|-------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.1 | 0.7 |
|--------------|------------------|-------|-----|-----|

22BH-5 (MW) SS2

| | | | | |
|--------------|------------------|-------|------|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 0.73 | 0.7 |
|--------------|------------------|-------|------|-----|

22BH-6 SS2

| | | | | |
|--------------|------------------|-------|------|------|
| Fluoranthene | EPA 3541/8270D | µg/g | 1.06 | 0.89 |
| Conductivity | EPA 6010/SM 2510 | mS/cm | 2.8 | 0.7 |

22BH-6 SS6

| | | | | |
|--------------|------------------|-------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.3 | 0.7 |
|--------------|------------------|-------|-----|-----|

22BH-7 SS5

| | | | | |
|-------------------------|----------------------|---------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.2 | 0.7 |
| Sodium Adsorption Ratio | MOE 4696e01/EPA 6010 | No unit | 5.3 | 5 |

DUP-A

| | | | | |
|-------------------------|----------------------|---------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.2 | 0.7 |
| Sodium Adsorption Ratio | MOE 4696e01/EPA 6010 | No unit | 5.7 | 5 |

Analyzed pH values for the soil were within the applicable limits of 7 to 9.

7.3.2 QA/QC RESULTS

According to the Laboratory Certificates of Analyses from SGS Canada Inc. for the analyzed soil and groundwater samples, the instrument performance/calibration quality criteria and extraction/analysis limits for holdings were met. No QA/QC issues were noted by SGS Canada Inc.

8.0 DISCUSSION OF RESULTS AND RECOMMENDATIONS

8.1 SUMMARY OF FINDINGS

A summary of the findings of the Phase II ESA conducted at the Site are presented below:

- A total of eight (8) boreholes were advanced ranging in depths from 3.5 m to 6.6 m below grade (bg). All boreholes were drilled at exterior locations as access was not provided in the interior portions of the building.
- Underlying the surface course, fill material underlain by clayey silt and shale bedrock was encountered at the Site.
- Measured groundwater levels on in the monitoring well ranged from 7.1 m to 8.5 m below grade in the monitoring wells.
- Representative or “worst-case” soil samples were collected in laboratory-supplied containers, placed in a cooler and preserved with ice, and shipped with a Chain of Custody to SGS Canada Inc. located in Lakefield, Ontario for laboratory analyses.
- The MECP Table 3 Full Depth Generic Site Condition Standards (SCS) for use in a Non-Potable Groundwater Condition as listed in the “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, dated April 15, 2011 for Residential/Parkland/Institutional property use with coarse textured soils were determined to be applicable for the Site.
- Discrete “worst-case” samples collected from borehole locations were submitted for laboratory analyses. A total of ten (10) discrete soil samples were analyzed for the following analytical parameter groups: M&Is and PAHs.
- The concentrations of PHCs, VOCs, M&Is and PAHs in all analyzed soil samples at the tested locations met their MECP Table 9 SCS for Residential/Parkland/Institutional/Industrial/Commercial/Community property use with all textured soils with the following exceptions:
 - Various salt related (Electrical Conductivity/Sodium Adsorption Ratio) soil exceedances within the fill material.
 - Zinc soil exceedance of 600 ug/g vs. the MECP Table 3 SCS of 340 ug/g at borehole location 21BH-1(MW) at a depth of 1.5 m below grade.
 - Fluoranthene soil exceedance of 1.06 ug/g vs. the MECP Table 3 SCS of 0.69 ug/g at borehole location 21BH-6 at a depth of 0.7 m below grade.

8.2 DISCUSSION AND RECOMMENDATION

Salt related parameters of Electrical Conductivity and Sodium Adsorption Ratio were identified to exceed the MECP Table 3 SCS within the fill material to depths of up to 4.5 m below grade which can be attributed to the use of deicing salts within the asphalt paved parking areas within the winter months. Additionally, Zinc and Fluoranthene were found to exceed the MECP Table 3 SCS within the shallow soils at boreholes 21BH-1 and 21BH-6 which can be attributed to the importation of fill material of poor quality. Given that all of the soil will be excavated and disposed off-site from lot line to lot line for the construction of the proposed residential building, it is recommended that the soil exceeding the MECP Table 3 SCS be dealt with at time of site redevelopment. No further investigation is recommended at this time.

8.3 MONITORING WELL DECOMMISSIONING

If the monitoring wells on-Site are no longer required for further sampling or testing of the groundwater, the wells must be decommissioned as per the requirements of O. Reg. 903 "Wells". It should be noted that the decommissioning of monitoring wells is not part of the current scope of work. *Toronto Inspection Ltd.* would be pleased to assist and arrange to perform this work upon request.

9.0 REFERENCES

- Canadian Standard Association (CSA) Standard Z769-00 reaffirmed 2013, CSA-Z769-00 (R2013) "Phase II Environmental Site Assessment";
- Ontario Regulation 153/04, "Records of Site Condition – Part XV.1 of the Environmental Protection Act";
- "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", Revised December 1996, Ministry of Environment and Energy;
- "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", March 9, 2004, amended as of July 1, 2011; and
- "A Report to Kaneff Properties Limited, Phase One Environmental Site Assessment, Proposed 26-Storey Rental Tower, Kaneff Crescent and Mississauga Valley Blvd, City Mississauga, Ontario", prepared by Soil Engineers Ltd., dated March 11, 2020, prepared for Kaneff Properties Limited, Reference No. 2001-E013.

10.0 GENERAL STATEMENT OF LIMITATION

The comments presented in this report are based on the soil and groundwater samples gathered from the borehole/monitoring well locations indicated on the plan of this report. There is no warranty expressed or implied or representations made by *Toronto Inspection Ltd.* that this program has discovered all potential environmental risks or liabilities associated with the subject site.

Although we consider this report to be representative of the subsurface conditions at the subject property in the areas investigated, any interpretation of factual data or unexpected soil conditions which exhibit noticeable discolouration, odour, etc. in areas not investigated in this report, should be discussed in consultation with us prior to any initiation of activity. Our responsibility is limited to an accurate assessment of the soil or groundwater condition prevailing at the locations investigated at the time of the study.

To the fullest extent permitted by law, the client's maximum aggregate recovery against *Toronto Inspection Ltd.*, its directors, employees, sub-contractors and representatives, for any and all claims by Kaneff Group of Properties for all causes including, but not limited to, claims of breach of contract, breach of warranty and/or negligence, shall be limited to the amount of fees paid by the client.

Any use and/or interpretation of the data presented in this report, and any decisions made on it by the third party are responsibility of the third party. *Toronto Inspection Ltd.* accepts no responsibility for loss of time and damages, if any, suffered by the third party as a result of decisions or actions based on this report.

Any legal actions arising directly or indirectly from this work and/or *Toronto Inspection Ltd.*'s performance of the services shall be filed no longer than two years from the date of Toronto Inspection Ltd.'s substantial completion of the services. *Toronto Inspection Ltd.* shall not be responsible to the client for lost revenues, loss of profits, cost of content, claims of customers, or other special indirect, consequential, or punitive damages.

Yours sincerely,

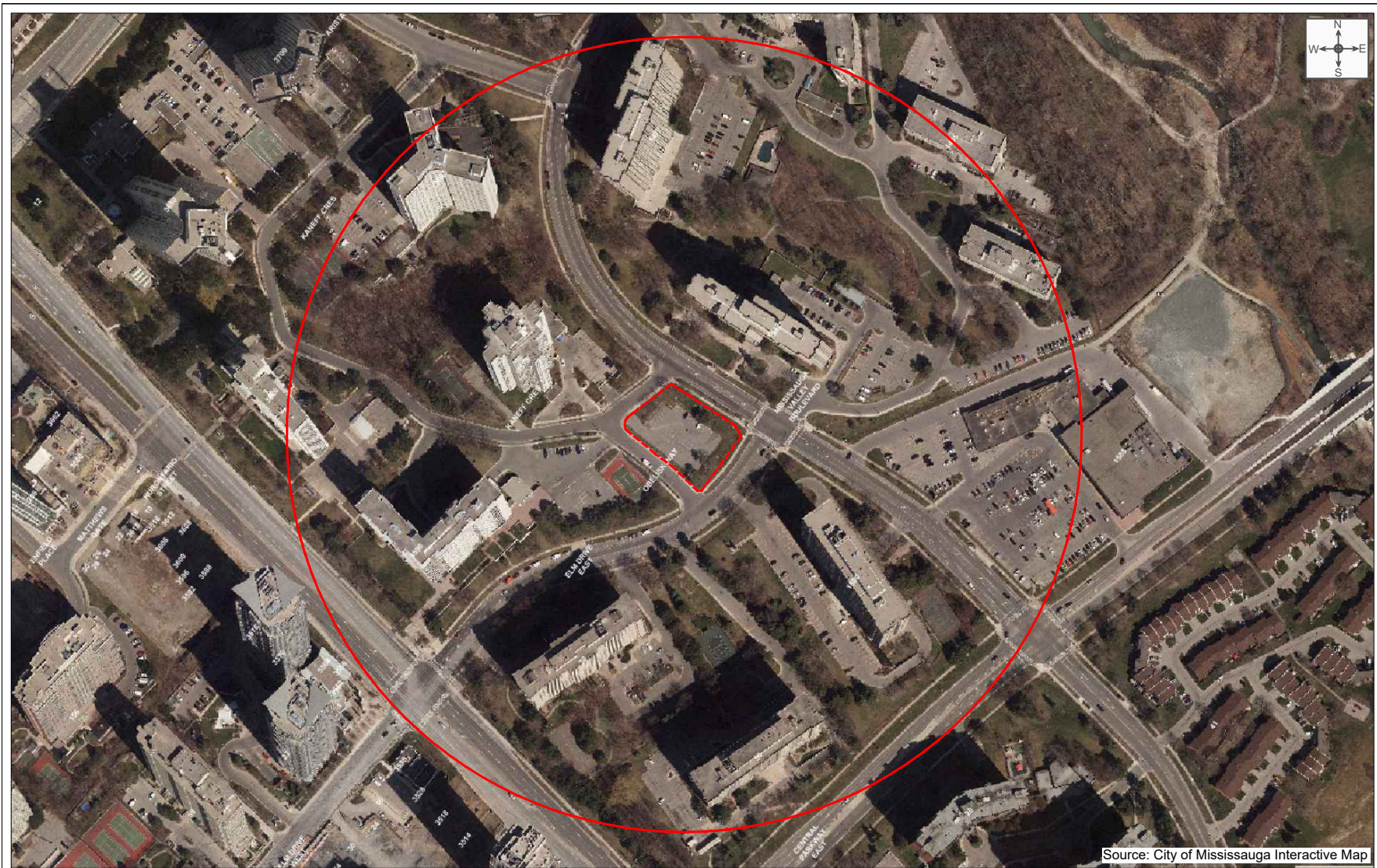
TORONTO INSPECTION LTD.



Matthew Pietrzyk, BES, EP
Environmental Project Manager



Victor Wood, P.Eng, QP_{ESA}
Principal Engineer



LEGEND

--- Site Boundary ○ Study Area (250m)

Scale (m)
0 50

TorontoInspection
GEO-ENVIRONMENTAL CONSULTANTS

110 Konrad Crescent,
Unit 16
Markham, Ontario
L3R 9X2

Tel: 905-940 8509

Fax: 905-940 8192

Email: TIL@torontoinpection.com

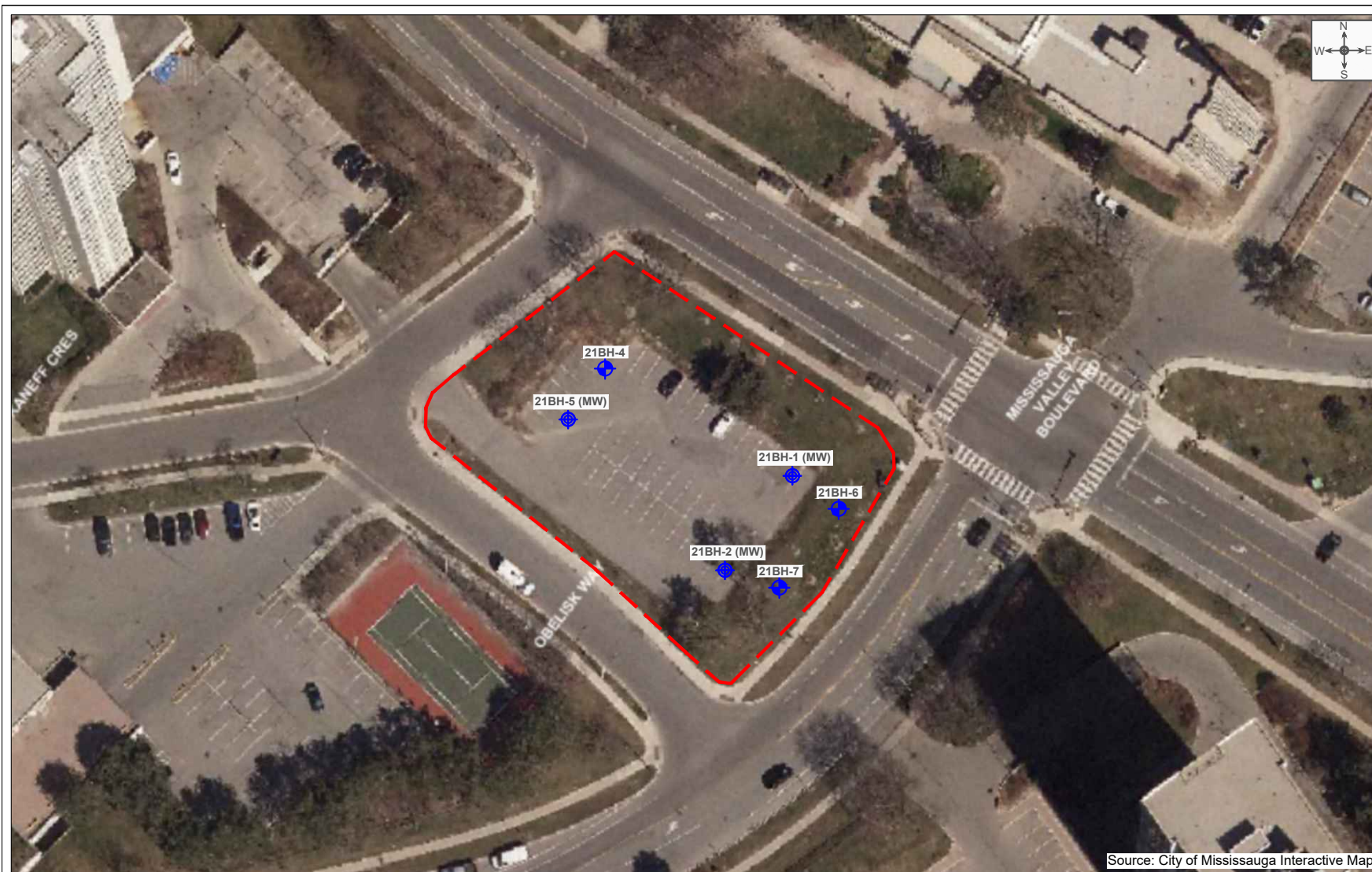
TITLE: Site Location Map

LOCATION: 3575 Kaneff Crescent, Mississauga, Ontario

PROJECT NO. 6027-22-EB

DATE: April 2022

FIGURE NO: 1



LEGEND

--- Site Boundary
 ⊕/⊗ Borehole and Monitoring Well Location

Scale (m)
 0 ————— 20

TorontoInspection
 GEO-ENVIRONMENTAL CONSULTANTS

110 Konrad Crescent,
 Unit 16
 Markham, Ontario
 L3R 9X2

Tel: 905-940 8509

Fax: 905-940 8192

Email : TIL@torontoinpection.com

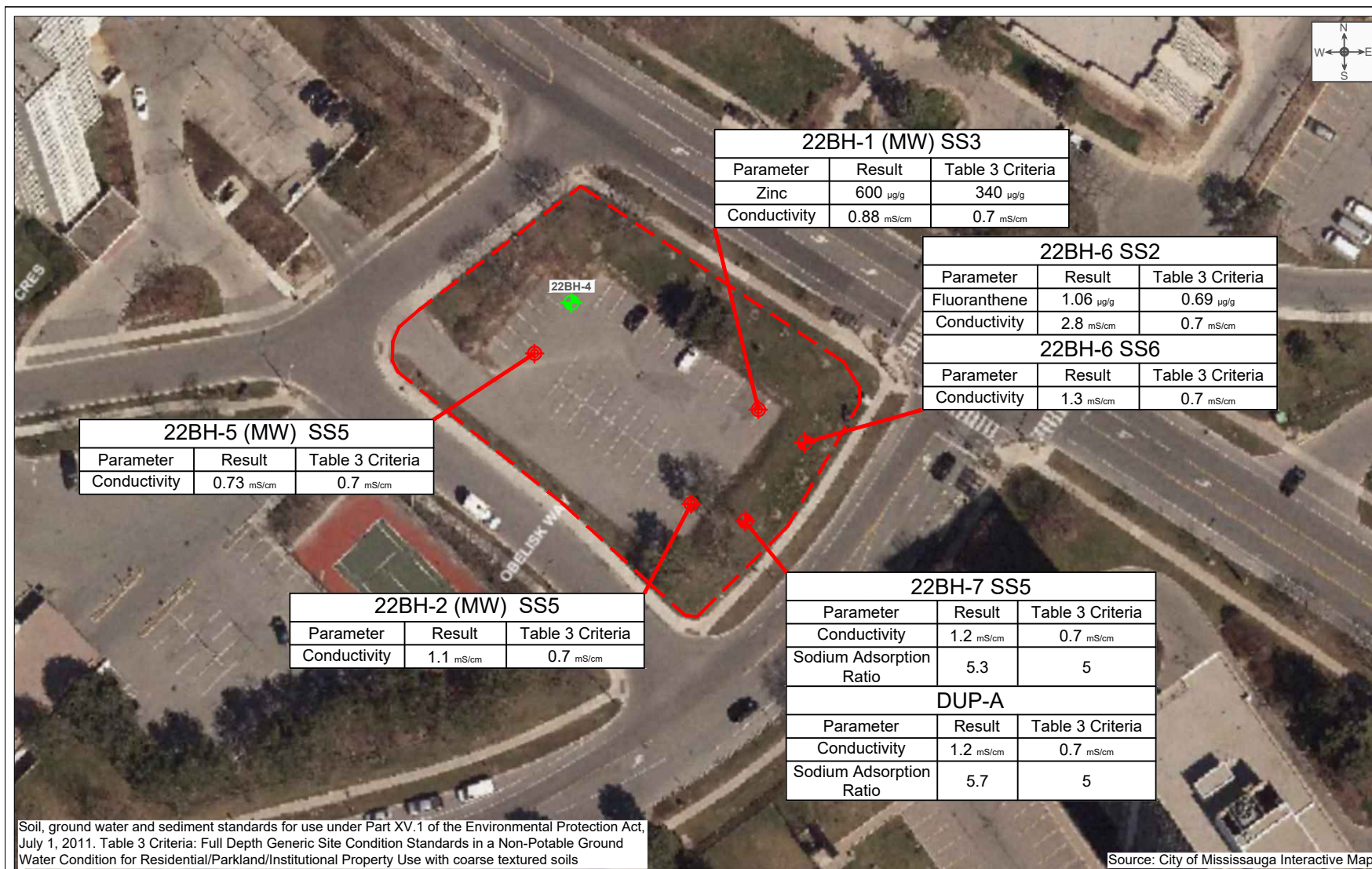
TITLE: Borehole and Monitoring Well Location Plan

LOCATION: 3575 Kaneff Crescent, Mississauga, Ontario

PROJECT NO. 6027-22-EB

DATE : April 2022

FIGURE NO: 2



| LEGEND | | Scale (m) | |
|---|---|--|------------|
| --- Site Boundary | Indicates Sample Exceeds Table 3 Criteria | Indicates Sample Meets Table 3 Criteria | |
| Toronto Inspection GEO-ENVIRONMENTAL CONSULTANTS Tel: 905-940 8509 Fax: 905-940 8192 Email: TIL@torontoinpection.com | | 110 Konrad Crescent, Unit 16 Markham, Ontario L3R 9X2 | |
| TITLE: | | Soil Exceedance Plan | |
| LOCATION: | | 3575 Kaneff Crescent, Mississauga, Ontario | |
| PROJECT NO. | 6027-22-EB | DATE : | April 2022 |
| FIGURE NO: | | 3 | |

Project No. 6027-22-EB

Log of Borehole **22BH-1 (MW)**

Dwg No. 1

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/10/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

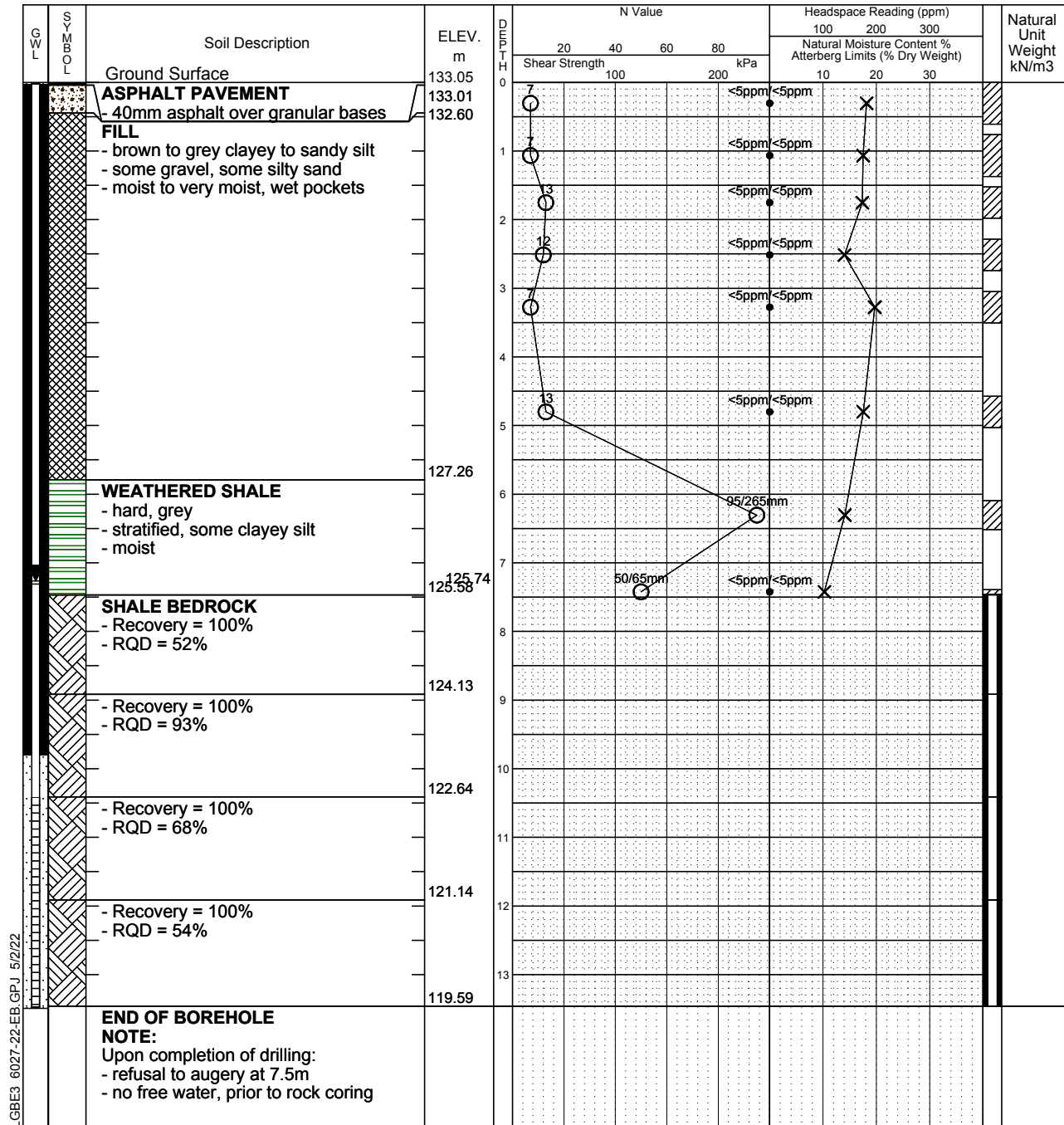
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|----------------|-----------------|-------------------|
| March 23, 2022 | 7.31m | |

Project No. 6027-22-EB

Log of Borehole **22BH-2 (MW)**

Dwg No. 2

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/9/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

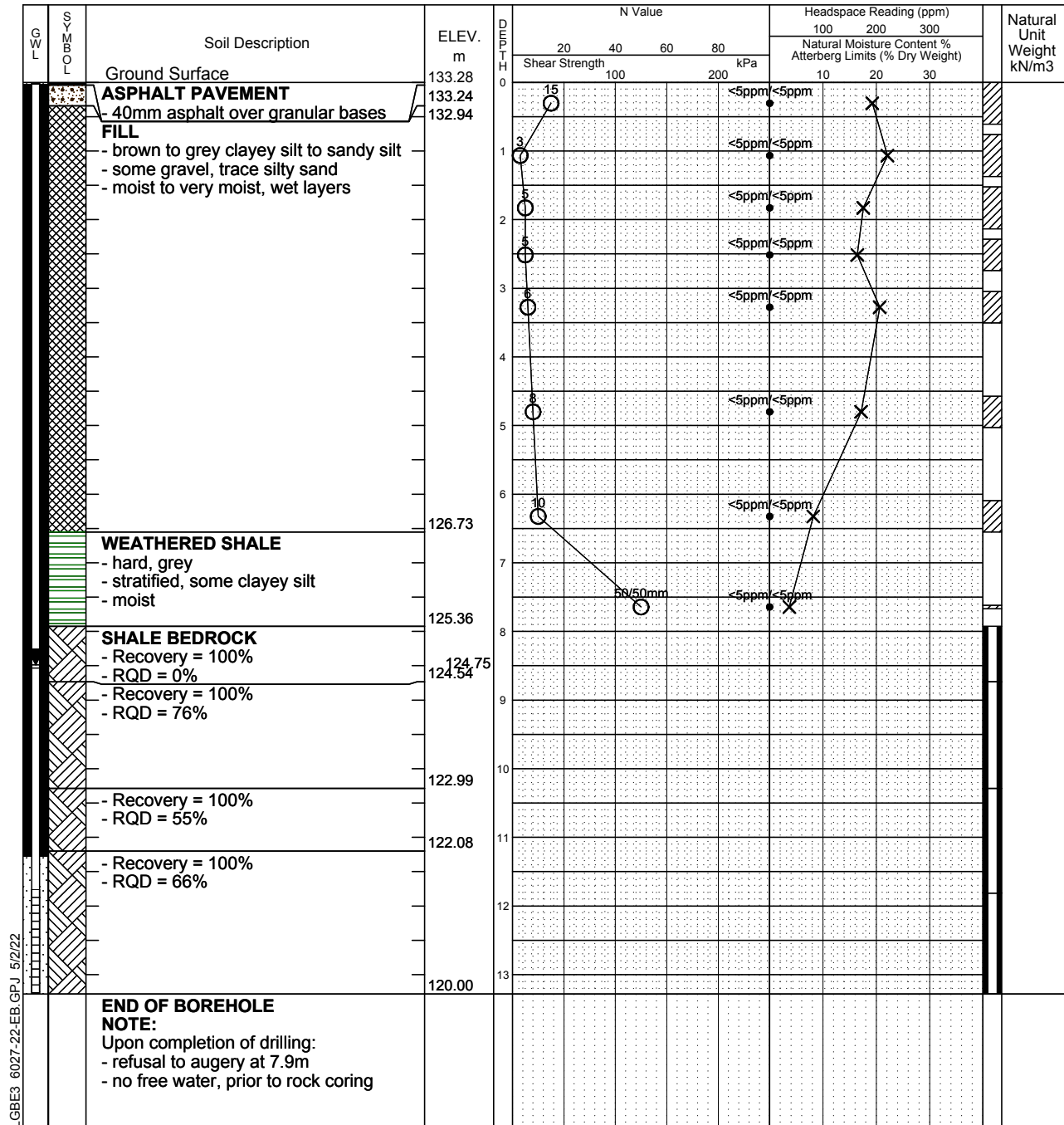
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|----------------|-----------------|-------------------|
| March 23, 2022 | 8.53m | |

Project No. 6027-22-EB

Log of Borehole **22BH-3**

Dwg No. 3

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/9/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

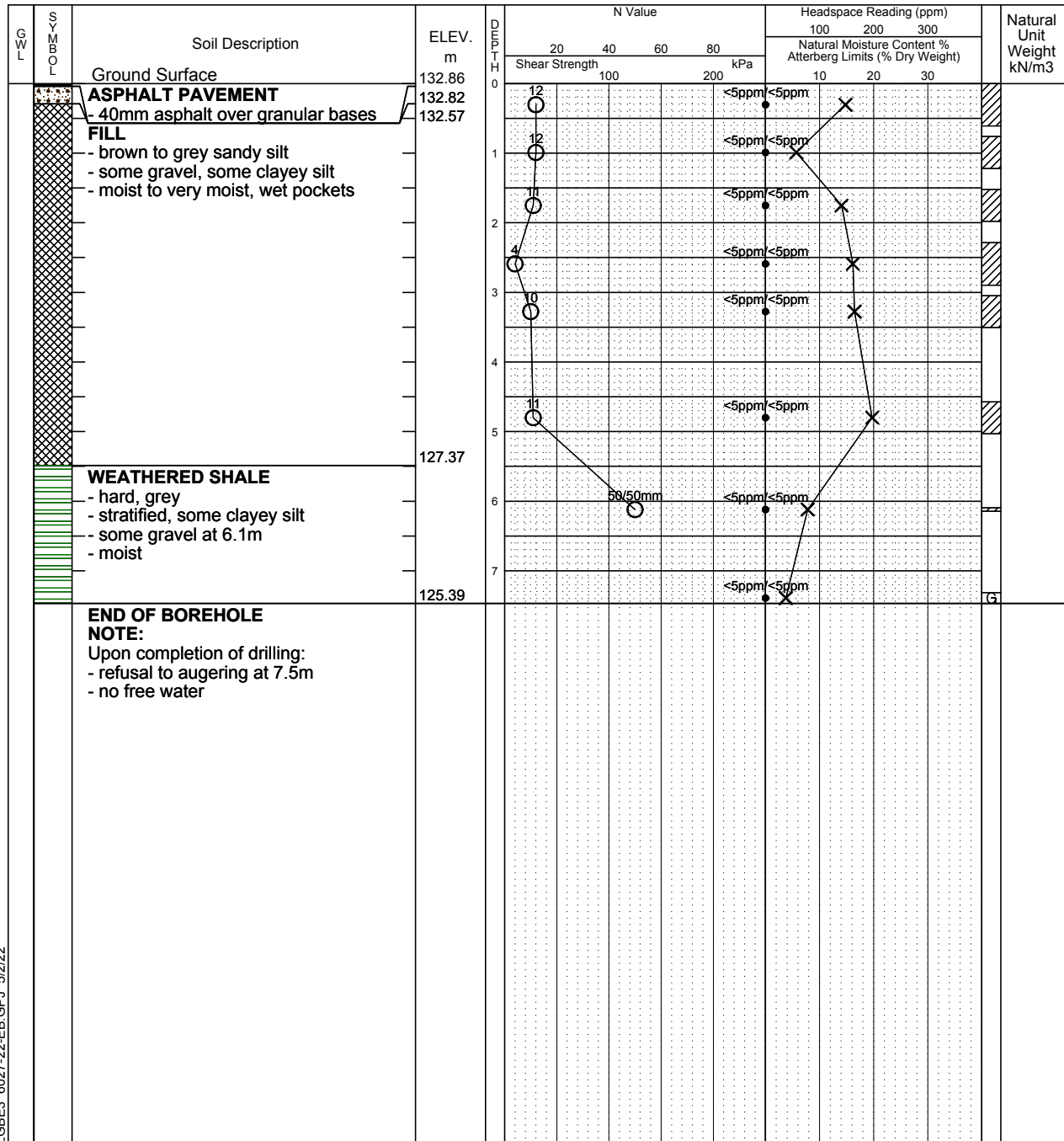
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Project No. 6027-22-EB

Log of Borehole **22BH-4**

Dwg No. 4

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/9/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

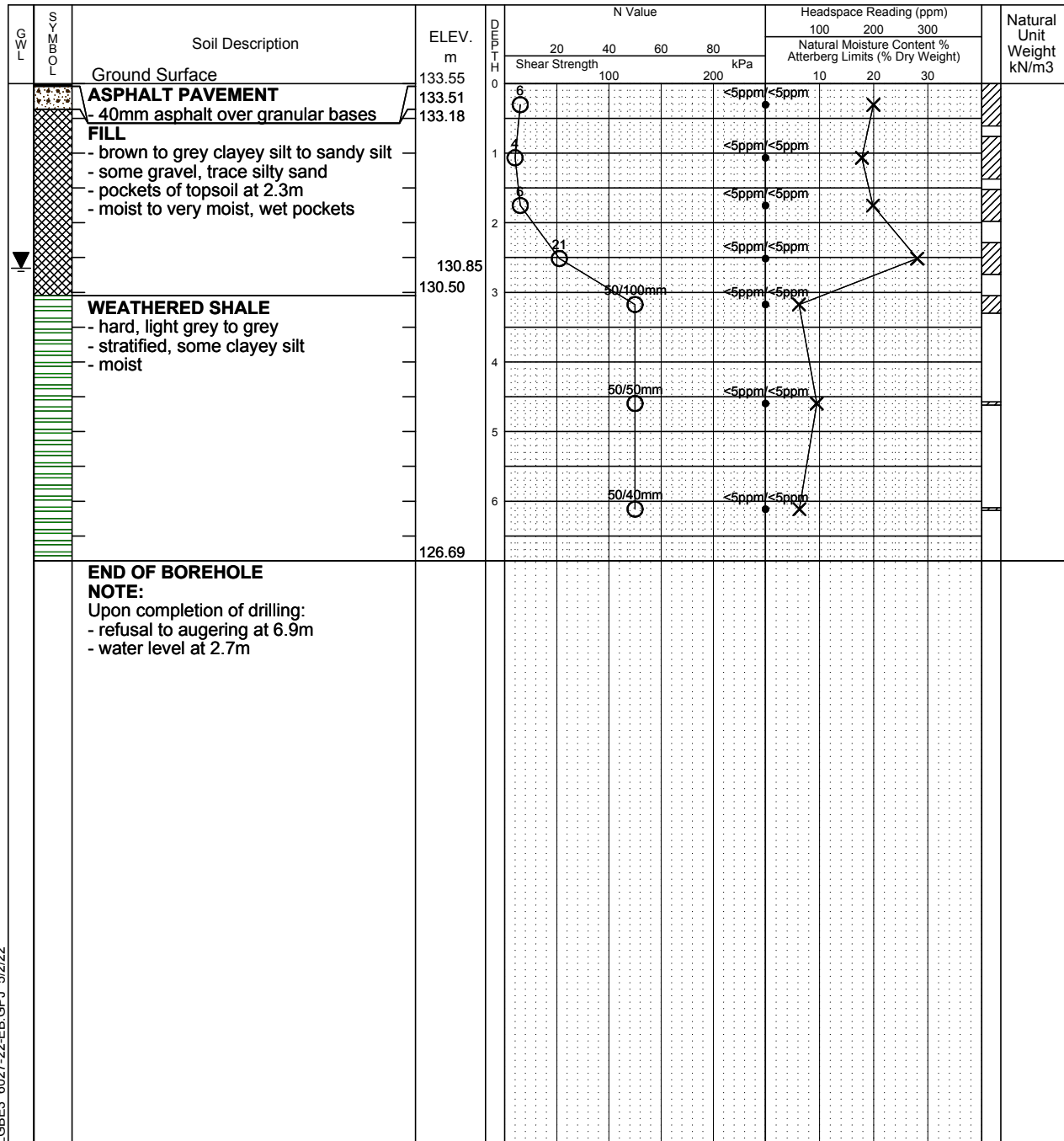
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |

Project No. 6027-22-EB

Log of Borehole **22BH-5 (MW)**

Dwg No. 5

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/14/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

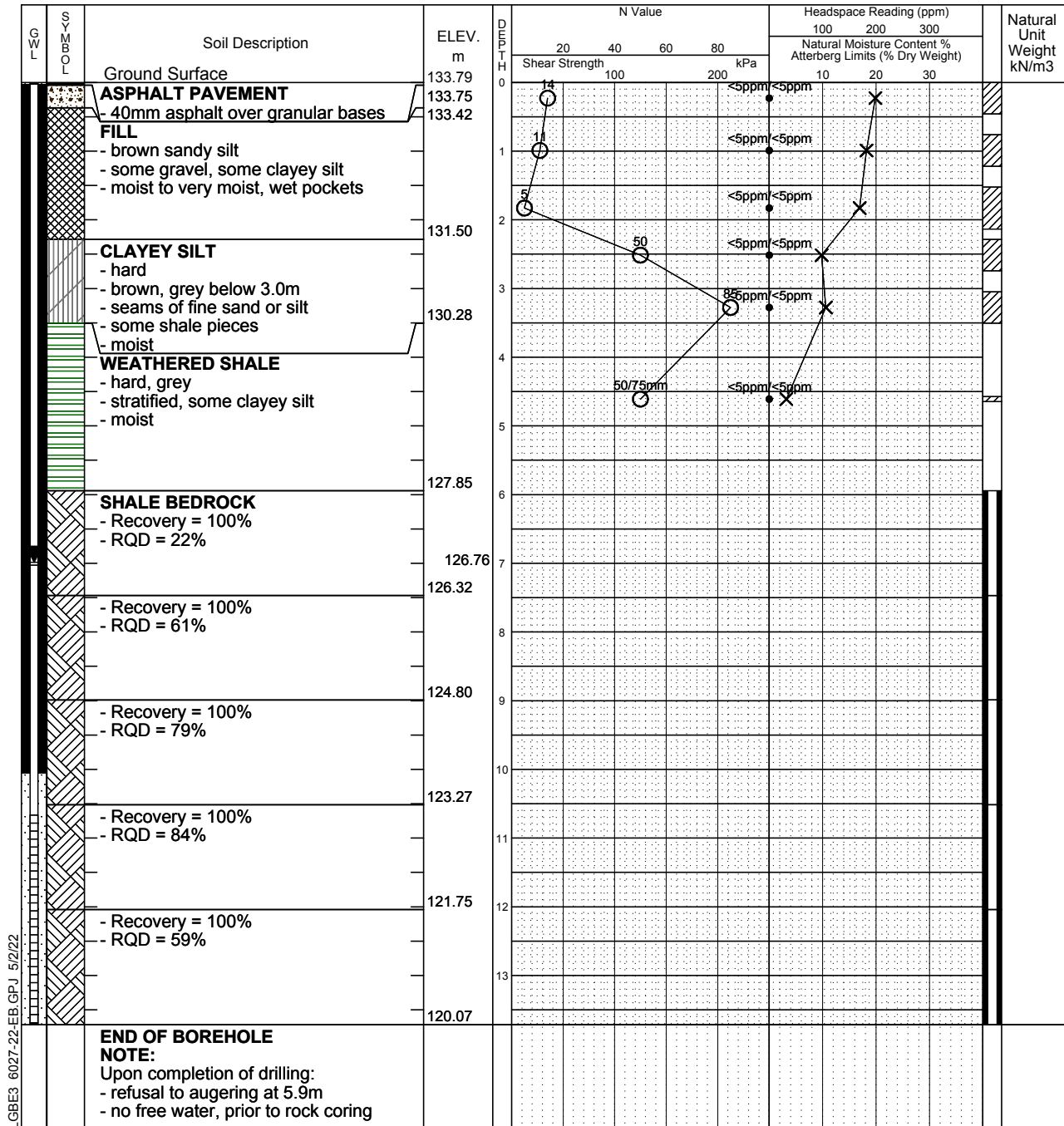
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|----------------|-----------------|-------------------|
| March 23, 2022 | 7.01m | |

Project No. 6027-22-EB

Log of Borehole **22BH-7**

Dwg No. 7

Project: Phase II Environmental Site Assessment

Sheet No. 1 of 1

Location: 3575 Kaneff Crescent, Mississauga, Ontario

Date Drilled: 3/14/22

Auger Sample

SPT (N) Value

Dynamic Cone Test

Shelby Tube

Field Vane Test

Headspace Reading (ppm)

Natural Moisture

Plastic and Liquid Limit

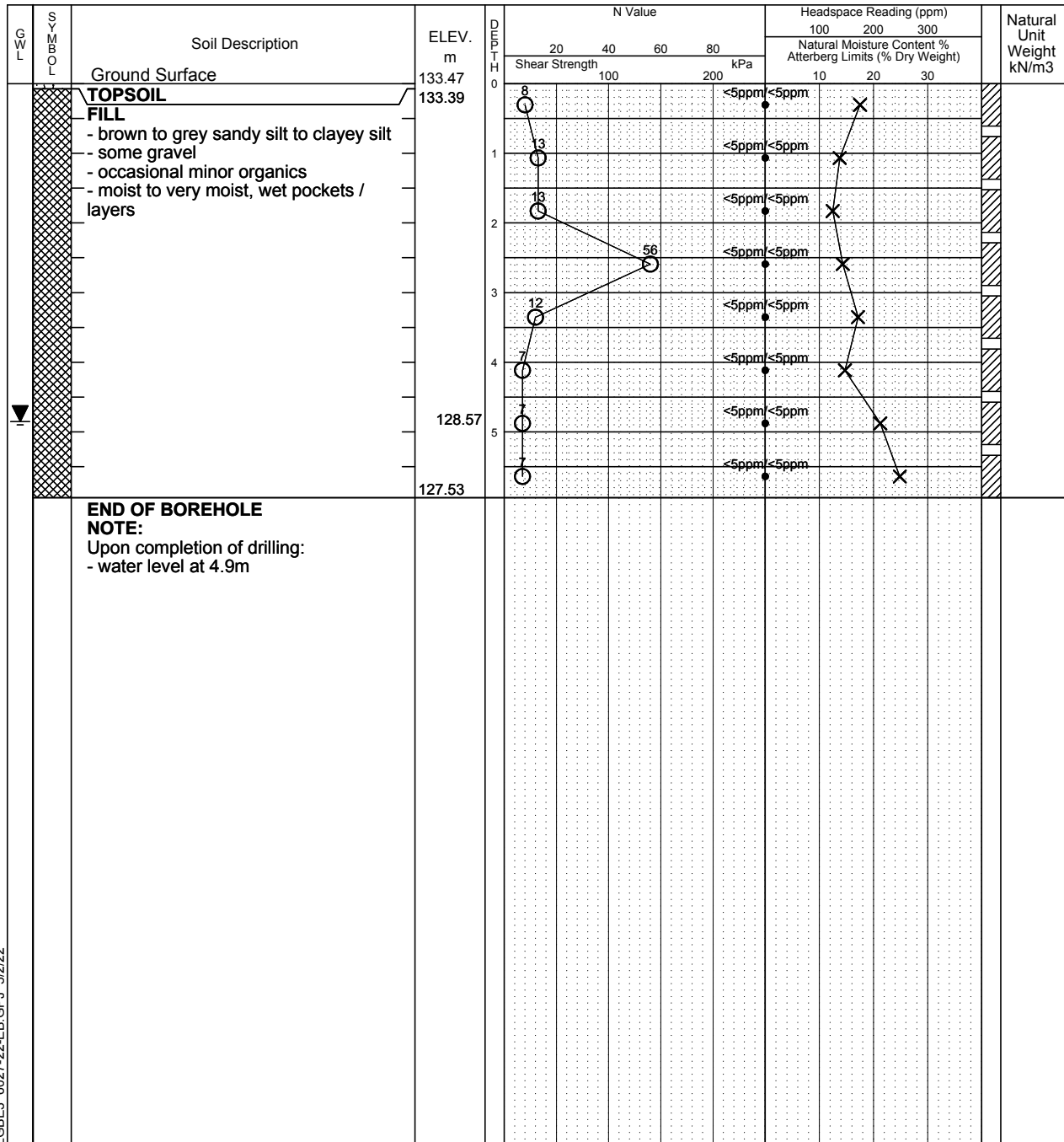
Unconfined Compression

% Strain at Failure

Penetrometer

Drill Type: Track Mounted Drill Rig

Datum: Geodetic



NOTE: THE BOREHOLE DATA NEEDS INTERPRETATION ASSISTANCE BY TORONTO INSPECTION LTD. BEFORE USE BY OTHERS

Toronto Inspection Ltd.

| Time | Water Level (m) | Depth to Cave (m) |
|------|-----------------|-------------------|
| | | |



FINAL REPORT

CA40313-MAR22 R1

6027

Prepared for

Toronto Inspection Ltd.

First Page

CLIENT DETAILS

Client Toronto Inspection Ltd.

Address 110 Konrad Crescent, Unit 16
Markham, ON
L3R 9X2, Canada

Contact Matt Pietrzyk

Telephone 905-940-8509

Facsimile 905 940 8192

Email lab@torontoinpection.com

Project 6027

Order Number

Samples Soil (10)

LABORATORY DETAILS

Project Specialist Maarit Wolfe, Hon.B.Sc

Laboratory SGS Canada Inc.

Address 185 Concession St., Lakefield ON, K0L 2H0

Telephone 705-652-2000

Facsimile 705-652-6365

Email Maarit.Wolfe@sgs.com

SGS Reference CA40313-MAR22

Received 03/18/2022

Approved 03/24/2022

Report Number CA40313-MAR22 R1

Date Reported 05/02/2022

COMMENTS

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 8 degrees C

Cooling Agent Present: Yes

Custody Seal Present: Yes

Chain of Custody Number: 024315

SIGNATORIES

Maarit Wolfe, Hon.B.Sc





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FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Sample Number | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------------|--------------------|--------------------|------------|------------|--------------------|------------|------------|------------|
| Sample Name | 22BH-1 (MW) SS3 | 22BH-2 (MW) SS5 | 22BH-3 SS5 | 22BH-4 SS4 | 22BH-5 (MW) SS2 | 22BH-6 SS2 | 22BH-6 SS6 | 22BH-7 SS1 |
| Sample Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | 10/03/2022 | 10/03/2022 | 09/03/2022 | 09/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 |

| Parameter | Units | RL | L1 | Result | Result | Result | Result | Result | Result | Result | Result |
|-----------------|-------|-----|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Hydrides | | | | | | | | | | | |
| Antimony | µg/g | 0.8 | 7.5 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 |
| Arsenic | µg/g | 0.5 | 18 | 5.2 | 5.5 | 6.0 | 4.4 | 5.6 | 5.9 | 5.6 | 5.3 |
| Selenium | µg/g | 0.7 | 2.4 | < 0.7 | < 0.7 | < 0.7 | < 0.7 | < 0.7 | < 0.7 | < 0.7 | < 0.7 |

Metals and Inorganics

| | | | | | | | | | | | |
|---------------------|------|-------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Moisture Content | % | no | | 14.9 | 16.3 | 14.0 | 15.3 | 15.3 | 14.9 | 19.0 | 18.7 |
| Barium | µg/g | 0.1 | 390 | 71 | 77 | 73 | 62 | 69 | 62 | 76 | 76 |
| Beryllium | µg/g | 0.02 | 4 | 0.78 | 0.73 | 0.86 | 0.78 | 0.74 | 0.86 | 0.83 | 0.83 |
| Boron | µg/g | 1 | 120 | 9 | 8 | 7 | 7 | 9 | 11 | 7 | 6 |
| Cadmium | µg/g | 0.05 | 1.2 | 1.1 | 0.12 | 0.08 | 0.13 | 0.34 | 0.16 | 0.09 | 0.13 |
| Chromium | µg/g | 0.5 | 160 | 21 | 20 | 22 | 21 | 21 | 22 | 22 | 22 |
| Cobalt | µg/g | 0.01 | 22 | 13 | 12 | 14 | 13 | 13 | 15 | 14 | 12 |
| Copper | µg/g | 0.1 | 140 | 30 | 38 | 30 | 26 | 30 | 36 | 34 | 32 |
| Lead | µg/g | 0.1 | 120 | 12 | 12 | 8.0 | 15 | 13 | 11 | 8.8 | 13 |
| Molybdenum | µg/g | 0.1 | 6.9 | 0.4 | 0.4 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 | 0.3 |
| Nickel | µg/g | 0.5 | 100 | 30 | 28 | 34 | 31 | 30 | 33 | 34 | 30 |
| Silver | µg/g | 0.05 | 20 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Thallium | µg/g | 0.02 | 1 | 0.15 | 0.14 | 0.15 | 0.14 | 0.14 | 0.18 | 0.15 | 0.15 |
| Uranium | µg/g | 0.002 | 23 | 0.61 | 0.56 | 0.56 | 0.65 | 0.63 | 0.63 | 0.55 | 0.55 |
| Vanadium | µg/g | 3 | 86 | 27 | 25 | 28 | 27 | 26 | 27 | 28 | 29 |
| Zinc | µg/g | 0.7 | 340 | 600 | 79 | 70 | 79 | 280 | 91 | 70 | 71 |
| Water Soluble Boron | µg/g | 0.5 | 1.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.6 | < 0.5 | < 0.5 |



FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Sample Number | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------------|--------------------|--------------------|------------|------------|--------------------|------------|------------|------------|
| Sample Name | 22BH-1 (MW) SS3 | 22BH-2 (MW) SS5 | 22BH-3 SS5 | 22BH-4 SS4 | 22BH-5 (MW) SS2 | 22BH-6 SS2 | 22BH-6 SS6 | 22BH-7 SS1 |
| Sample Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | 10/03/2022 | 10/03/2022 | 09/03/2022 | 09/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 |

| Parameter | Units | RL | L1 | Result | Result | Result | Result | Result | Result | Result | Result |
|-------------------------|----------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Other (ORP) | | | | | | | | | | | |
| Mercury | ug/g | 0.05 | 0.27 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Sodium Adsorption Ratio | No unit | 0.2 | 5 | 2.3 | 3.1 | 0.5 | 0.3 | 3.5 | 0.6 | 1.9 | 0.5 |
| SAR Calcium | mg/L | 0.2 | | 64.3 | 67.0 | 52.2 | 37.5 | 32.5 | 601 | 111 | 27.2 |
| SAR Magnesium | mg/L | 0.3 | | 14.0 | 14.6 | 8.4 | 6.2 | 7.8 | 82.8 | 22.4 | 2.7 |
| SAR Sodium | mg/L | 0.1 | | 77.5 | 108 | 15.6 | 7.4 | 86.4 | 56.2 | 83.0 | 9.6 |
| Conductivity | mS/cm | 0.002 | 0.7 | 0.88 | 1.1 | 0.46 | 0.30 | 0.73 | 2.8 | 1.3 | 0.20 |
| pH | pH Units | 0.05 | | 8.00 | 7.90 | 7.85 | 7.60 | 7.89 | 7.88 | 7.67 | 7.78 |
| Chromium VI | µg/g | 0.2 | 8 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Free Cyanide | µg/g | 0.05 | 0.051 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

PAHs

| | | | | | | | | | | | |
|------------------------|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| Acenaphthene | µg/g | 0.05 | 7.9 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.12 | < 0.05 | < 0.05 |
| Acenaphthylene | µg/g | 0.05 | 0.15 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Anthracene | µg/g | 0.05 | 0.67 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.19 | < 0.05 | < 0.05 |
| Benzo(a)anthracene | µg/g | 0.05 | 0.5 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.40 | < 0.05 | < 0.05 |
| Benzo(a)pyrene | µg/g | 0.05 | 0.3 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.30 | < 0.05 | < 0.05 |
| Benzo(b+j)fluoranthene | µg/g | 0.05 | 0.78 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.44 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene | µg/g | 0.1 | 6.6 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.12 | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene | µg/g | 0.05 | 0.78 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | < 0.05 | < 0.05 |
| Chrysene | µg/g | 0.05 | 7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.37 | < 0.05 | < 0.05 |
| Dibenzo(a,h)anthracene | µg/g | 0.06 | 0.1 | < 0.06 | < 0.06 | < 0.06 | < 0.06 | < 0.06 | < 0.06 | < 0.06 | < 0.06 |
| Fluoranthene | µg/g | 0.05 | 0.69 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 1.06 | 0.06 | < 0.05 |



FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

| Sample Number | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------------|--------------------|--------------------|------------|------------|--------------------|------------|------------|------------|
| Sample Name | 22BH-1 (MW) SS3 | 22BH-2 (MW) SS5 | 22BH-3 SS5 | 22BH-4 SS4 | 22BH-5 (MW) SS2 | 22BH-6 SS2 | 22BH-6 SS6 | 22BH-7 SS1 |
| Sample Matrix | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| Sample Date | 10/03/2022 | 10/03/2022 | 09/03/2022 | 09/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 | 14/03/2022 |

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Parameter | Units | RL | L1 | Result | Result | Result | Result | Result | Result | Result | Result |
|--------------------------|-------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| PAHs (continued) | | | | | | | | | | | |
| Fluorene | µg/g | 0.05 | 62 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.1 | 0.38 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.12 | < 0.1 | < 0.1 |
| 1-Methylnaphthalene | µg/g | 0.05 | | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 2-Methylnaphthalene | µg/g | 0.05 | | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methylnaphthalene, 2-(-) | µg/g | 0.05 | 0.99 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 |
| Naphthalene | µg/g | 0.05 | 0.6 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | < 0.05 | < 0.05 |
| Phenanthrene | µg/g | 0.05 | 6.2 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 1.17 | < 0.05 | < 0.05 |
| Pyrene | µg/g | 0.05 | 78 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.82 | < 0.05 | < 0.05 |

SVOC Surrogates

| | | | | | | | | | | | |
|---------------------------|------------|----|--|-----|----|----|-----|-----|-----|-----|-----|
| Surr Nitrobenzene-d5 | Surr Rec % | no | | 99 | 84 | 87 | 91 | 93 | 90 | 92 | 94 |
| Surr 2-Fluorobiphenyl | Surr Rec % | no | | 97 | 81 | 83 | 91 | 94 | 89 | 90 | 92 |
| Surr 4-Terphenyl-d14 | Surr Rec % | no | | 110 | 99 | 98 | 102 | 102 | 100 | 106 | 109 |
| Surr 2-Fluorophenol | Surr Rec % | no | | 88 | 79 | 87 | 90 | 91 | 86 | 90 | 91 |
| Surr Phenol-d6 | Surr Rec % | no | | 96 | 86 | 92 | 95 | 97 | 93 | 98 | 97 |
| Surr 2,4,6-Tribromophenol | Surr Rec % | no | | 75 | 71 | 70 | 78 | 79 | 77 | 74 | 83 |



FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

| | | |
|----------------------|------------|-------|
| Sample Number | 16 | 17 |
| Sample Name | 22BH-7 SS5 | DUP-A |
| Sample Matrix | Soil | Soil |
| Sample Date | 14/03/2022 | |

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Parameter | Units | RL | L1 | Result | Result |
|-----------------|-------|-----|-----|--------|--------|
| Hydrides | | | | | |
| Antimony | µg/g | 0.8 | 7.5 | < 0.8 | < 0.8 |
| Arsenic | µg/g | 0.5 | 18 | 4.5 | 4.5 |
| Selenium | µg/g | 0.7 | 2.4 | < 0.7 | < 0.7 |

Metals and Inorganics

| | | | | | |
|---------------------|------|-------|-----|--------|--------|
| Moisture Content | % | no | | 15.4 | 16.4 |
| Barium | µg/g | 0.1 | 390 | 74 | 86 |
| Beryllium | µg/g | 0.02 | 4 | 0.66 | 0.69 |
| Boron | µg/g | 1 | 120 | 8 | 9 |
| Cadmium | µg/g | 0.05 | 1.2 | 0.15 | 0.15 |
| Chromium | µg/g | 0.5 | 160 | 18 | 18 |
| Cobalt | µg/g | 0.01 | 22 | 11 | 11 |
| Copper | µg/g | 0.1 | 140 | 28 | 32 |
| Lead | µg/g | 0.1 | 120 | 13 | 14 |
| Molybdenum | µg/g | 0.1 | 6.9 | 0.4 | 0.3 |
| Nickel | µg/g | 0.5 | 100 | 25 | 25 |
| Silver | µg/g | 0.05 | 20 | < 0.05 | < 0.05 |
| Thallium | µg/g | 0.02 | 1 | 0.13 | 0.13 |
| Uranium | µg/g | 0.002 | 23 | 0.66 | 0.73 |
| Vanadium | µg/g | 3 | 86 | 24 | 24 |
| Zinc | µg/g | 0.7 | 340 | 63 | 61 |
| Water Soluble Boron | µg/g | 0.5 | 1.5 | < 0.5 | 0.7 |



FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

| | | |
|----------------------|------------|-------|
| Sample Number | 16 | 17 |
| Sample Name | 22BH-7 SS5 | DUP-A |
| Sample Matrix | Soil | Soil |
| Sample Date | 14/03/2022 | |

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Parameter | Units | RL | L1 | Result | Result |
|-------------------------|----------|-------|-------|--------|--------|
| Other (ORP) | | | | | |
| Mercury | ug/g | 0.05 | 0.27 | < 0.05 | < 0.05 |
| Sodium Adsorption Ratio | No unit | 0.2 | 5 | 5.3 | 5.7 |
| SAR Calcium | mg/L | 0.2 | | 64.9 | 58.2 |
| SAR Magnesium | mg/L | 0.3 | | 3.8 | 3.2 |
| SAR Sodium | mg/L | 0.1 | | 164 | 165 |
| Conductivity | mS/cm | 0.002 | 0.7 | 1.2 | 1.2 |
| pH | pH Units | 0.05 | | 10.64 | 9.69 |
| Chromium VI | µg/g | 0.2 | 8 | < 0.2 | < 0.2 |
| Free Cyanide | µg/g | 0.05 | 0.051 | < 0.05 | < 0.05 |

PAHs

| | | | | | |
|------------------------|------|------|------|--------|--------|
| Acenaphthene | µg/g | 0.05 | 7.9 | < 0.05 | < 0.05 |
| Acenaphthylene | µg/g | 0.05 | 0.15 | < 0.05 | < 0.05 |
| Anthracene | µg/g | 0.05 | 0.67 | < 0.05 | < 0.05 |
| Benzo(a)anthracene | µg/g | 0.05 | 0.5 | 0.09 | < 0.05 |
| Benzo(a)pyrene | µg/g | 0.05 | 0.3 | 0.09 | < 0.05 |
| Benzo(b+j)fluoranthene | µg/g | 0.05 | 0.78 | 0.15 | < 0.05 |
| Benzo(ghi)perylene | µg/g | 0.1 | 6.6 | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene | µg/g | 0.05 | 0.78 | < 0.05 | < 0.05 |
| Chrysene | µg/g | 0.05 | 7 | 0.09 | < 0.05 |
| Dibenzo(a,h)anthracene | µg/g | 0.06 | 0.1 | < 0.06 | < 0.06 |
| Fluoranthene | µg/g | 0.05 | 0.69 | 0.11 | < 0.05 |
| Fluorene | µg/g | 0.05 | 62 | < 0.05 | < 0.05 |



FINAL REPORT

CA40313-MAR22 R1

Client: Toronto Inspection Ltd.

Project: 6027

Project Manager: Matt Pietrzyk

Samplers: Ankit

MATRIX: SOIL

| | | |
|----------------------|------------|-------|
| Sample Number | 16 | 17 |
| Sample Name | 22BH-7 SS5 | DUP-A |
| Sample Matrix | Soil | Soil |
| Sample Date | 14/03/2022 | |

L1 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

| Parameter | Units | RL | L1 | Result | Result |
|---------------------------|-------|------|------|--------|--------|
| PAHs (continued) | | | | | |
| Indeno(1,2,3-cd)pyrene | µg/g | 0.1 | 0.38 | < 0.1 | < 0.1 |
| 1-Methylnaphthalene | µg/g | 0.05 | | < 0.05 | < 0.05 |
| 2-Methylnaphthalene | µg/g | 0.05 | | < 0.05 | < 0.05 |
| Methylnaphthalene, 2-(1-) | µg/g | 0.05 | 0.99 | < 0.05 | < 0.05 |
| Naphthalene | µg/g | 0.05 | 0.6 | < 0.05 | < 0.05 |
| Phenanthrene | µg/g | 0.05 | 6.2 | < 0.05 | < 0.05 |
| Pyrene | µg/g | 0.05 | 78 | 0.10 | < 0.05 |

SVOC Surrogates

| | | | | | |
|---------------------------|------------|----|--|-----|-----|
| Surr Nitrobenzene-d5 | Surr Rec % | no | | 95 | 86 |
| Surr 2-Fluorobiphenyl | Surr Rec % | no | | 93 | 84 |
| Surr 4-Terphenyl-d14 | Surr Rec % | no | | 114 | 103 |
| Surr 2-Fluorophenol | Surr Rec % | no | | 93 | 84 |
| Surr Phenol-d6 | Surr Rec % | no | | 101 | 90 |
| Surr 2,4,6-Tribromophenol | Surr Rec % | no | | 75 | 72 |

EXCEEDANCE SUMMARY

| | | | | REG153 / SOIL / COARSE - TABLE 3 - Residential/Parklan d - UNDEFINED L1 |
|-----------|--------|-------|--------|--|
| Parameter | Method | Units | Result | |

22BH-1 (MW) SS3

| | | | | |
|--------------|--------------------|-------|------|-----|
| Zinc | EPA 3050/EPA 200.8 | µg/g | 600 | 340 |
| Conductivity | EPA 6010/SM 2510 | mS/cm | 0.88 | 0.7 |

22BH-2 (MW) SS5

| | | | | |
|--------------|------------------|-------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.1 | 0.7 |
|--------------|------------------|-------|-----|-----|

22BH-5 (MW) SS2

| | | | | |
|--------------|------------------|-------|------|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 0.73 | 0.7 |
|--------------|------------------|-------|------|-----|

22BH-6 SS2

| | | | | |
|--------------|------------------|-------|------|------|
| Fluoranthene | EPA 3541/8270D | µg/g | 1.06 | 0.69 |
| Conductivity | EPA 6010/SM 2510 | mS/cm | 2.8 | 0.7 |

22BH-6 SS6

| | | | | |
|--------------|------------------|-------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.3 | 0.7 |
|--------------|------------------|-------|-----|-----|

22BH-7 SS5

| | | | | |
|-------------------------|----------------------|---------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.2 | 0.7 |
| Sodium Adsorption Ratio | MOE 4696e01/EPA 6010 | No unit | 5.3 | 5 |

DUP-A

| | | | | |
|-------------------------|----------------------|---------|-----|-----|
| Conductivity | EPA 6010/SM 2510 | mS/cm | 1.2 | 0.7 |
| Sodium Adsorption Ratio | MOE 4696e01/EPA 6010 | No unit | 5.7 | 5 |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

Conductivity

Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|--------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Conductivity | EWL0375-MAR22 | mS/cm | 0.002 | <0.002 | 0 | 10 | 100 | 90 | 110 | NA | | |

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-IENVISFA-LAK-AN-005

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|--------------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Free Cyanide | SKA5081-MAR22 | µg/g | 0.05 | <0.05 | ND | 20 | 102 | 80 | 120 | 92 | 75 | 125 |

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVISKA-LAK-AN-012

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|-------------|-----------------------|-------|-----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Chromium VI | SKA5082-MAR22 | ug/g | 0.2 | <0.2 | ND | 20 | 90 | 80 | 120 | 101 | 75 | 125 |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|-----------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Mercury | EMS0164-MAR22 | ug/g | 0.05 | <0.05 | ND | 20 | 100 | 80 | 120 | 104 | 70 | 130 |

Metals in aqueous samples - ICP-OES

Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-IENVISPE-LAK-AN-003

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|---------------|-----------------------|-------|-----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| SAR Calcium | ESG0068-MAR22 | mg/L | 0.2 | <0.09 | 17 | 20 | 102 | 80 | 120 | 107 | 70 | 130 |
| SAR Magnesium | ESG0068-MAR22 | mg/L | 0.3 | <0.02 | 17 | 20 | 101 | 80 | 120 | 105 | 70 | 130 |
| SAR Sodium | ESG0068-MAR22 | mg/L | 0.1 | <0.15 | 13 | 20 | 98 | 80 | 120 | 95 | 70 | 130 |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-IENVISPE-LAK-AN-005

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|------------|-----------------------|-------|-------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Silver | EMS0164-MAR22 | ug/g | 0.05 | <0.05 | ND | 20 | 97 | 70 | 130 | 107 | 70 | 130 |
| Arsenic | EMS0164-MAR22 | µg/g | 0.5 | <0.5 | 2 | 20 | 93 | 70 | 130 | 96 | 70 | 130 |
| Barium | EMS0164-MAR22 | ug/g | 0.1 | <0.1 | 4 | 20 | 104 | 70 | 130 | 104 | 70 | 130 |
| Beryllium | EMS0164-MAR22 | µg/g | 0.02 | <0.02 | 7 | 20 | 100 | 70 | 130 | 93 | 70 | 130 |
| Boron | EMS0164-MAR22 | µg/g | 1 | <1 | 5 | 20 | 105 | 70 | 130 | 90 | 70 | 130 |
| Cadmium | EMS0164-MAR22 | ug/g | 0.05 | <0.05 | 1 | 20 | 99 | 70 | 130 | 102 | 70 | 130 |
| Cobalt | EMS0164-MAR22 | µg/g | 0.01 | <0.01 | 3 | 20 | 94 | 70 | 130 | 94 | 70 | 130 |
| Chromium | EMS0164-MAR22 | µg/g | 0.5 | <0.5 | 1 | 20 | 91 | 70 | 130 | 93 | 70 | 130 |
| Copper | EMS0164-MAR22 | µg/g | 0.1 | <0.1 | 2 | 20 | 100 | 70 | 130 | 99 | 70 | 130 |
| Molybdenum | EMS0164-MAR22 | µg/g | 0.1 | <0.1 | 19 | 20 | 99 | 70 | 130 | 105 | 70 | 130 |
| Nickel | EMS0164-MAR22 | ug/g | 0.5 | <0.5 | 2 | 20 | 99 | 70 | 130 | 105 | 70 | 130 |
| Lead | EMS0164-MAR22 | µg/g | 0.1 | <0.1 | 0 | 20 | 104 | 70 | 130 | 103 | 70 | 130 |
| Antimony | EMS0164-MAR22 | µg/g | 0.8 | <0.8 | ND | 20 | 100 | 70 | 130 | 99 | 70 | 130 |
| Selenium | EMS0164-MAR22 | µg/g | 0.7 | <0.7 | ND | 20 | 95 | 70 | 130 | 96 | 70 | 130 |
| Thallium | EMS0164-MAR22 | µg/g | 0.02 | <0.02 | 3 | 20 | 103 | 70 | 130 | 102 | 70 | 130 |
| Uranium | EMS0164-MAR22 | µg/g | 0.002 | <0.002 | 2 | 20 | 102 | 70 | 130 | 103 | 70 | 130 |
| Vanadium | EMS0164-MAR22 | µg/g | 3 | <3 | 1 | 20 | 93 | 70 | 130 | 96 | 70 | 130 |
| Zinc | EMS0164-MAR22 | µg/g | 0.7 | <0.7 | 2 | 20 | 101 | 70 | 130 | 97 | 70 | 130 |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

pH
Method: SM 4500 | Internal ref.: ME-CA-ENVIEWL-LAK-AN-001

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|-----------|-----------------------|----------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| pH | ARD0096-MAR22 | pH Units | 0.05 | | 0 | 20 | 100 | 80 | 120 | | | |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|------------------------|-----------------------|-------|------|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| 1-Methylnaphthalene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 92 | 50 | 140 | 90 | 50 | 140 |
| 2-Methylnaphthalene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 93 | 50 | 140 | 92 | 50 | 140 |
| Acenaphthene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 100 | 50 | 140 | 97 | 50 | 140 |
| Acenaphthylene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 90 | 50 | 140 | 89 | 50 | 140 |
| Anthracene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 94 | 50 | 140 | 89 | 50 | 140 |
| Benzo(a)anthracene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 94 | 50 | 140 | 95 | 50 | 140 |
| Benzo(a)pyrene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 85 | 50 | 140 | 88 | 50 | 140 |
| Benzo(b+j)fluoranthene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 88 | 50 | 140 | 90 | 50 | 140 |
| Benzo(ghi)perylene | GCM0393-MAR22 | µg/g | 0.1 | < 0.1 | ND | 40 | 94 | 50 | 140 | 85 | 50 | 140 |
| Benzo(k)fluoranthene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 94 | 50 | 140 | 95 | 50 | 140 |
| Chrysene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 96 | 50 | 140 | 95 | 50 | 140 |
| Dibenzo(a,h)anthracene | GCM0393-MAR22 | µg/g | 0.06 | < 0.06 | ND | 40 | 92 | 50 | 140 | 83 | 50 | 140 |
| Fluoranthene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 93 | 50 | 140 | 93 | 50 | 140 |
| Fluorene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 96 | 50 | 140 | 93 | 50 | 140 |
| Indeno(1,2,3-cd)pyrene | GCM0393-MAR22 | µg/g | 0.1 | < 0.1 | ND | 40 | 96 | 50 | 140 | 88 | 50 | 140 |
| Naphthalene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 96 | 50 | 140 | 93 | 50 | 140 |
| Phenanthrene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 95 | 50 | 140 | 91 | 50 | 140 |
| Pyrene | GCM0393-MAR22 | µg/g | 0.05 | < 0.05 | ND | 40 | 97 | 50 | 140 | 95 | 50 | 140 |



FINAL REPORT

CA40313-MAR22 R1

QC SUMMARY

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-IENVI SPE-LAK-AN-003

| Parameter | QC batch Reference | Units | RL | Method Blank | Duplicate | | LCS/Spike Blank | | | Matrix Spike / Ref. | | |
|---------------------|-----------------------|-------|-----|-----------------|-----------|-----------|--------------------------|------------------------|------|--------------------------|------------------------|------|
| | | | | | RPD | AC (%) | Spike Recovery (%) | Recovery Limits (%) | | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | | | Low | High | | Low | High |
| Water Soluble Boron | ESG0065-MAR22 | µg/g | 0.5 | <0.5 | ND | 20 | 101 | 80 | 120 | 99 | 70 | 130 |

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS Insufficient sample for analysis.

RL Reporting Limit.

↑ Reporting limit raised.

↓ Reporting limit lowered.

NA The sample was not analysed for this analyte

ND Non Detect

Data reported represent the sample as submitted to SGS. Solid samples expressed on a dry weight basis.

"Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality" published by the Ministry and dated March 9, 2004 as amended.

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