PROJECT NO.: SM 220141-E

FEBRUARY 4, 2025
REVISED: AUGUST 12, 2025

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
MAIN STREET EAST, PEARL STREET & PRINCE STREET
MILTON, ONTARIO

PREPARED FOR:

MIKMADA HOMES

Soil-Mat

BY

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
401 GRAYS ROAD
HAMILTON, ONTARIO
L8E 2Z3

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PROJECT NO.: SM 220141-E

February 4, 2025
UPDATED: August 11, 2025

MIKMADA HOMES
PO Box 220
Burlington, Ontario
L7P 0N4

Attention: Adam Nesbitt
President

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
PROPOSED RESIDENTIAL DEVELOPMENT
MAIN STREET EAST, PEARL STREET & PRINCE STREET
MILTON, ONTARIO

Dear Mr. Nesbitt,

1.0 EXECUTIVE SUMMARY

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] were retained by MIKMADA HOMES to undertake Phase Two Environmental Site Assessment [ESA] activities on the above captioned property. Of note, our Phase Two activities were conducted in accordance with Ontario Regulation 153/04 [as amended] to support the eventual filing of a Record of Site Condition [RSC] for the property.

Further to the above, a Phase One Environmental Site Assessment was previously prepared for the subject lands, by SOIL-MAT ENGINEERS, and was utilised in determining the rationale for these Phase Two activities [refer to SOIL-MAT ENGINEERS' Report No.: SM 220141-E dated May 26, 2023].

Our Phase Two activities included the advancement of thirteen [13] boreholes on subject property to assess the impact to the soil, if any, as a result of potentially contaminating activities [PCAs] identified upon completion of the above noted Phase One ESA report. In addition, a groundwater monitoring well was installed at seven [7] of the borehole locations, upon completion of drilling activities, to facilitate the collection of groundwater samples to assess the groundwater medium. Of note, one of the seven [7] groundwater monitoring wells was installed for geotechnical purposes only and was not utilised as a sample location for these Phase Two activities.

Based on SOIL-MAT ENGINEERS' field observations and the laboratory analytical test results received in its office, SOIL-MAT ENGINEERS is pleased to offer the following:

SOIL SAMPLING SUMMARY

The laboratory analytical test results, for the submitted soil samples, revealed the following exceedances of the applicable Table 3 Residential/Parkland/Institutional Land Use Site Condition Standards [Table 3 RPI SCSs]:

- Soil sample 'BH2 SS2', revealed elevated levels of select metal parameters [specifically Barium, Lead, and Zinc] at a depth of between 0.8 to 1.4 metres below ground surface [m bgs];
- Soil sample 'BH3 SS1', revealed an elevated level of a select metal parameter [specifically Lead] at a depth of between 0 to 0.6 m bgs, and;
- Soil samples 'BH5 SS1' and 'BH5 SS2', revealed multiple elevated levels of select petroleum hydrocarbon [PHC], benzene, toluene, ethylbenzene, and xylenes [BTEX], volatile organic compound [VOC] and polycyclic aromatic hydrocarbon [PAH] parameters [specifically Naphthalene, 2-and 1-methyl Naphthalene, PHC F1 (C6 to C10), PHC F2 (C10 to C16), Benzene, Toluene, Ethylbenzene, Xylenes (Total), n Hexane] at a depth of approximately 0.1 to 1.4 m bgs.

With the exception of the above, all the other soil samples subjected to laboratory analytical testing were found to be within the applicable Table 3 RPI SCSs for the select tested contaminant of potential concern [COPC] groupings.

GROUNDWATER SAMPLING SUMMARY

The laboratory analytical test results for all of the submitted groundwater samples are all below the applicable Table 3 RPI SCSs for the select tested COPC groupings.

NEXT STEPS

As noted above, elevated levels of select Metal, PHC, BTEX, VOC and PAH parameters were identified within the soil medium on the Phase Two Property. The elevated levels of the select contaminants of concern [COCs] were identified at depths up to 1.4 m bgs. However, the analytical test results [to date] do not provide a reasonable vertical delineation for the PHC, BTEX, VOC and PAH parameters. In addition, although the lateral delineation can be defined, with the existing analytical test results, it is highly anticipated that the lateral delineation can be better defined to a significantly reduced area.

In addition to the above, it is noted that our initial planned Phase Two activities included the advancement of a borehole in APEC #3 to assess potential adverse environmental impacts associated with a former UST on the Site. However, due to site restrictions and access limitations, including a parked vehicle, a borehole was not able to be advanced in APEC #3. As such, intrusive soil and groundwater sampling to assess this specific location on the Site is required. It should be noted that APEC #3 is located within a residential property and would not affect the filing of a Record of Site Condition on the commercial properties, however, it is noted that although an RSC is not required on the residential portions of the Phase Two Property, the Town of Milton may request an RSC be filed on the entire development lands.

Given the above, it is the opinion of SOIL-MAT ENGINEERS that a Record of Site Condition to support the proposed residential development of the Site cannot be filed without further intrusive soil sampling within the areas of exceedances noted within the commercial properties.

The samples secured for analytical testing are believed to be representative of the conditions at the sample locations only. If any significant changes are noted, i.e., odours, staining etc., SOIL-MAT ENGINEERS should be contacted to reassess the environmental characteristics of the Site.

It is noted that subsurface soil conditions may be present on-site that are not typical of those presented in this Report. If future activities reveal such soils, SOIL-MAT ENGINEERS should be contacted to assess the soil conditions with respect to the proposed activity.

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of MIKMADA HOMES. The material in it reflects SOIL-MAT ENGINEERS' best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

2.0 INTRODUCTION

SOIL-MAT ENGINEERS were retained by MIKMADA HOMES undertake Phase Two ESA activities on the above captioned property. Of note, our Phase Two activities were conducted in accordance with Ontario Regulation 153/04 [as amended] to support the eventual filing of a Record of Site Condition [RSC] for the property.

Further to the above, a Phase One Environmental Site Assessment was previously prepared for the subject lands by SOIL-MAT ENGINEERS, and was utilised in determining the rationale for these Phase Two activities [refer to SOIL-MAT ENGINEERS' Report No.: SM 220141-E dated May 26, 2023].

Our fieldwork, laboratory testing and interpretation in connection with the assessment activities has been finalised and our comments and recommendations, based on our findings, are presented in the following paragraphs.

The subject property is herein referred to as the Phase Two Property and/or the Site.

2.0 (i) SITE DESCRIPTION

At the time of this Report, the Phase Two Property was comprised of six [6] adjoining parcels of land that together form an irregular shaped parcel of land located on the south side of Main Street East between Prince Street and Bruce Street in the Town of Milton, Ontario. Specifically, the Phase Two Property was comprised of the following parcels of land:

- 388 Main Street East: This portion of the Phase Two Property was occupied by a two-storey, basementless, five [5] unit, mixed commercial and residential building. The building was occupied by the following tenants:
  - Slessor Quality Automobiles / Right Choice Auto Sales, who also occupy the storage unit on the southwestern portion of the building;
  - An apartment unit [Unit 1];
  - The World of My Baby (WOMB) [Unit 2];
  - An apartment unit [Unit 3], and;
  - Golden Fish and Chips / Sushi Yama [Unit 4].
- 17 Prince Street: This portion of the Phase Two Property was occupied by a 1½-storey dwelling, with a basement level, and a single-storey, basementless, attached garage located immediately east of the dwelling;
- 395 Pearl Street: This portion of the Phase Two Property was occupied by a 1½-storey, basementless, dwelling;
- 399 Pearl Street: This portion of the Phase Two Property was occupied by a 1½-storey dwelling, with a basement level;
- 405 Pearl Street: This portion of the Phase Two Property was occupied by a single-storey, basementless, dwelling, and;
- 409 Pearl Street: This portion of the Phase Two Property was occupied by a single-storey, basementless, dwelling.

The remainder of the Phase Two Property was comprised of a mixture of an asphaltic-concrete covered parking lot areas and landscaped yard areas.
The Site was bounded to the north by Main Street East, to the east by Bruce Street, to the south by Pearl Street and residential lands, and to the west by Prince Street and residential lands.

For descriptive purposes, Main Street East has been designated as having an east-west alignment.

The Phase Two Property is comprised of the following “legal” parcels of land:

1. PIN 24954-0139 [388 Main Street East]: “Lot 6, Block 14, Plan 9, Lot 7, Block 14, Plan 9, Lot 8, Block 14, Plan 9, Lot 9, Block 14, Plan 9, as known as Teetzel's Survey, south of Main Street; Milton; save and except Part Lot 6 taken for road widening purposes, designated as Parcel County Road 36-1, Section D-8, as in 218689”;
2. PIN 24954-0140 [17 Prince Street]: “Part Lot 7, Block 14, Plan 9, as known as Teetzel's Survey, north of Pearl Street, as in 501695, together with 75793; Milton; Subject to Execution 93-05166, if enforceable. Subject to Execution 93-05167, if enforceable. Subject to Execution 93-05168, if enforceable”;
3. PIN 24954-0142 [395 Pearl Street]: “Lot 6, Block 14, Plan 9, as known as Teetzel's Survey, north of Pearl Street; Milton”;
4. PIN 24954-0143 [399 Pearl Street]: “Lot 5, Block 14, Plan 9, as known as Teetzel's Survey, north of Pearl Street; Milton”;
5. PIN 24954-0144 [405 Pearl Street]: “Part Lot 4, Block 14, Plan 9, as known as Teetzel's Survey, north of Pearl Street, as in 518468, together with 518468; Milton; Subject to Execution 93-05166, if enforceable. Subject to Execution 93-05167, if enforceable. Subject to Execution 93-05168, if enforceable”, and;
6. PIN 24954-0145 [409 Pearl Street]: “Part Lot 4, Block 14, Plan 9, as known as Teetzel's Survey, north of Pearl Street, as in 371921, subject to 371921; Milton.”

The area of the Site is approximately 0.70 hectares in total.

2.0 (ii) PROPERTY OWNERSHIP

At the time of our referenced Phase One ESA report, the Site was owned by the following at the time of the title search:

1. 388 Main Street East: Slessor Motors (Milton) Inc;
2. 17 Prince Street: Beverly Allan Slessor;
3. 395 Pearl Street: Kim Slessor;
4. 399 Pearl Street: Milton Motor Sales Limited;
5. 405 Pearl Street: Beverly Allan Slessor, and;
6. 409 Pearl Street: Beverly Slessor.

However, as noted in the preamble of this Report, SOIL-MAT ENGINEERS were retained by MIKMADA HOMES to undertake the Phase Two activities on the Site in support of the redevelopment of the Site.

The contact information for our Client is provided below:

1. Contact Name: Mr. Adam Nesbitt
2. Mailing Address: PO Box 220, Burlington, Ontario, L7P 0N4
3. Contact e-mail: anesbitt@mikmadahomes.com
4. Contact Phone: 905-630-3435

2.0 (iii) CURRENT AND PROPOSED FUTURE USE

Current Use: Commercial and Residential
Proposed Use: Residential

Based on the current use and the proposed use of the Site, the proposed development is subject to a mandatory RSC filing.

2.0 (iv) APPLICABLE SITE CONDITION STANDARDS

The following criteria was utilised to determine the appropriate site classification and applicable soil and groundwater standards.

- Current land use: Commercial and Residential;
- Intended land use: Residential;
- Drinking Water Supply: Non-Potable Ground Water;
- On-site Soil Texture: Medium to Fine Grained Soils;
- Depth to Bedrock: Approximately 18.8 metres;
- pH of soils on the Site: Within the Applicable Generic Site Condition Standards Range;
- Surface Water Body: Not observed on-Site or within 30 metres of the Site.

Based on the above, the applicable site condition standards are the Table 3 SCSs for a Residential/Parkland/Institutional Use property use in a non-potable groundwater condition

from the Ministry of the Environment document "Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environment Protection Act, (2011), hereinafter referred to as the 'Table 3 RPI Standards'.

3.0 (i) PHYSICAL SETTING

The Site is located in an area of a mixture of residential, commercial and community use lands.

There are no water bodies in whole or in part on the Phase Two Property. In addition, no surface water bodies were observed within 30 metres of the Phase Two Property.

There are no areas of natural significance located in whole or in part on the Phase Two Property.

The topography of the Site is relatively flat and level with surface water being directed towards the catch basins surrounding the Site.

3.0 (ii) PAST INVESTIGATIONS

SOIL-MAT ENGINEERS had access to the following environmental report, which was utilized as a supporting document during the completion of this Report.

1. SOIL-MAT ENGINEERS' Report No. SM 220141-E entitled, "Phase One Environmental Site Assessment, 388 Main Street East, 395-409 Pearl Street & 17 Prince Street, Milton, Ontario", dated May 26, 2023: prepared for MIKMADA HOMES.

The May 26, 2023, Phase One ESA report revealed four [4] potentially contaminating activities [PCA] on the Phase One Property, including the following:

- Information contained in the Vernon City Directory Series revealed a commercial automotive repair facility formerly operated on the '17 Prince Street' portion of the Phase One Property;
- Information contained in the Vernon City Directory Series, and the title search of the Phase One Property, revealed a commercial automotive repair facility formerly operated on the '388 Main Street East' portion of the Phase One Property. Of note, this was also confirmed via an interview with Mr. Laffin [Property Manager for the Phase One Property];
- Information provided by Mr. Laffin revealed an underground storage tank [UST] was formerly located immediately north of the dwelling on the '405 Pearl Street' portion of the Phase One Property, and;
- Information contained in available aerial photographs, topographic maps, and a Fire Insurance Plan from 1927 revealed three [3] buildings were demolished on the '388 Main Street East' portion of the Phase One Property, including on each on the western, northern and eastern portion of this property.

The neighbouring and nearby lands are comprised of a mixture of residential, commercial, and institutional use lands. The current and historic operations on properties located in the Phase One Study Area revealed six [6] PCAs that are considered likely to cause an area

of potential environmental concern [APEC] on the Phase One Property, including the following:

- Information contained in the Vernon City Directory Series revealed a commercial automotive repair facility formerly operated on the property recognised as '409 Main Street East', which is located approximately 15 metres northwest [up-gradient] of the Phase One Property;
- Information contained in the Vernon City Directory Series revealed a commercial automotive repair facility formerly operated on the property recognised as '420 Main Street East', which is located approximately 10 metres northeast [up-gradient] of the Phase One Property;
- Information contained in the EcoLog ERIS database search revealed fuel storage tanks on the property recognised as '383 Main Street East', which is located approximately 55 metres northwest [up-gradient] of the Phase One Property;
- Information contained in the Vernon City Directory Series revealed a print shop formerly operated on the property recognised as '361 Main Street East', which is located approximately 50 metres west-southwest [trans-gradient/down-gradient] of the Phase One Property;
- Our visual observations of the Phase One Study Area revealed an active print shop on the property recognised as '357 Main Street East', which is located approximately 55 metres southwest [trans-gradient/down-gradient] of the Phase One Property, and;
- Information contained in the aerial photographs, an acknowledged Record of Site Condition [RSC ID# 79919], and the EcoLog ERIS database search revealed a paperboard container manufacturing facility that formerly operated on the property recognised as '383 Main Street East', which is located approximately 55 metres northwest [up-gradient] of the Phase One Property.

The specific PCAs numbers, associated with the active and historical PCAs, include the following:

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC #1	The historic automotive repair facility on	10. Commercial Autobody Shop	On-Site	Metals, Petroleum Hydrocarbons [PHCs], Volatile	Soil and Groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
	the '17 Prince Street' portion of the Phase One Property.	[PCA A]		Organic Compounds [VOCs], Polycyclic Aromatic Hydrocarbons [PAHs], Polychlorinated Biphenyls [PCBs] and Benzene, Toluene, Ethylbenzene and Xylenes [BTEX]	
APEC #2	The historic automotive repair facility on the '388 Main Street East' portion of the Phase One Property.	10. Commercial Autobody Shop [PCA B]	On-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater
APEC #3	To the north of the dwelling on the '405 Pearl Street' portion of the Phase One Property.	28. Gasoline and Associated Products Storage in Fixed Tanks [PCA C]	On-Site	PHCs, PAHs and BTEX	Soil and Groundwater
APEC #4	In the immediate vicinity of the three [3] former structures on the '388 Main Street East' portion of the Phase One Property.	30. Importation of Fill Material of Unknown Quality [PCA D]	On-Site	Metals, PHCs and BTEX	Soil
APEC #5	The northeastern limit of the Phase One Property.	10. Commercial Autobody Shop [PCA E]	Off-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater
APEC #6	The eastern limit of the Phase One Property.	10. Commercial Autobody Shop [PCA F]	Off-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater
APEC #7	The northern limit of the Phase One Property.	28. Gasoline and Associated Products Storage in	Off-Site	PHCs, PAHs, and BTEX	Soil and Groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
		Fixed Tanks [PCA G]			
APEC #8	The western limit of the Phase One Property.	31. Ink Manufacturing, Processing and Bulk Storage [PCA H]	Off-Site	Metals, PHCs, VOCs, and BTEX.	Soil
APEC #9	The western limit of the Phase One Property.	31. Ink Manufacturing, Processing and Bulk Storage [PCA I]	Off-Site	Metals, PHCs, VOCs, and BTEX.	Soil
APEC #10	The northern limit of the Phase One Property.	45. Pulp, Paper, and Paperboard Manufacturing and Processing [PCA J]	Off-Site	Metals, VOCs, PHCs and PAHs.	Soil and Groundwater

The above noted report was supervised by a Qualified Person [QP] of SOIL-MAT ENGINEERS.

SOIL-MAT ENGINEERS contacted the Town of Milton planning department to request a copy of previous environmental reports for the Site that may be on file with the City. However, the results were not available during the completion of this Report, and will be sent under a separate cover as soon as they are received in our Office.

In addition, a search of the MOE's *Brownfields Environmental Site Registry* did not reveal a previous Phase One ESA that may have been undertaken on the Site. Of note, Stantec Consulting Ltd. submitted a Record of Site Condition [RSC] to the Ministry of the Environment and Climate Change [MOE] in support of a residential development on the nearby 383 Main Street East, which is located approximately 55 metres northwest [up-gradient] of the Site. The RSC was acknowledged by the MOE and filed on the Ministry's Environmental Site Registry on June 10, 2010 [RSC ID #79919].

4.0 SCOPE OF THE INVESTIGATION

4.0 (i) OVERVIEW OF SITE INVESTIGATION

Our Phase Two activities included the advancement of thirteen [13] boreholes on subject property to assess the impact to the soil, if any, as a result of potentially contaminating activities [PCAs] identified upon completion of the above noted Phase One ESA report. In addition, a groundwater monitoring well was installed at eight [8] of the borehole locations, upon completion of drilling activities, to facilitate the collection of groundwater samples to assess the groundwater medium. Of note, one of the eight [8] groundwater monitoring wells was installed for geotechnical purposes only and was not utilised as a sample location for these Phase Two activities.

Representative soil samples were secured following standard industry sampling protocols and were submitted to AGAT laboratories for laboratory analytical testing for the specific Phase Two ESA contaminants of potential concern [COPC], in this case being metals, hydride forming metals including arsenic [As], antimony [Sb], selenium [Se] and other regulated parameters [ORP] including hot water extractable boron [BHWS], cyanide [CN-], electrical conductivity [EC], hexavalent chromium [Cr (VI)], mercury [Hg] and sodium adsorption ratio [SAR], petroleum hydrocarbons [PHCs], benzene, toluene, ethylbenzene and xylenes [BTEX], volatile organic compounds [VOCs], polycyclic aromatic hydrocarbons [PAHs] and polychlorinated biphenyls [PCBs].

4.0 (ii) MEDIA INVESTIGATED

The purpose of the Phase Two ESA activities was to assess the soil and groundwater quality on the Phase Two Property, as related to the environmental concerns identified upon completion of our May 26, 2023 Phase One ESA.

4.0 (iii) PHASE ONE CONCEPTUAL SITE MODEL

The Site was comprised of six [6] adjoining parcels of land that together form an irregular shaped parcel of land located on the south side of Main Street East between Prince Street and Bruce Street in the Town of Milton, Ontario.

The Phase One Property is comprised of the following parcels of land:

1. 388 Main Street East, Milton, Ontario. The property identification number [PIN] is '24954-0139'. The registered owner of the Site is Slessor Motors (Milton) Inc.;
2. 17 Prince Street, Milton, Ontario. The PIN is '24954-0140'. The registered owner of the Site is Beverly Allan Slessor;
3. 395 Pearl Street, Milton, Ontario. The PIN is '24954-0142'. The registered owner of the Site is Kim Slessor;
4. 399 Pearl Street, Milton, Ontario. The PIN is '24954-0143'. The registered owner of the Site is Milton Motor Sales Limited;
5. 405 Pearl Street, Milton, Ontario. The PIN is '24954-0144'. The registered owner of the Site is Beverly Allan Slessor, and;
6. 409 Pearl Street, Milton, Ontario. The PIN is '24954-0145'. The registered owner of the Site is Beverly Slessor.

The information gathered during the completion of this Phase One ESA report revealed that the Site was first developed circa the 1890's as residential use lands. The first readily available visual aid for the Site is a topographic map from 1909 which illustrates the Site as residential use lands. Other visual aids, including aerial photographs from 1954, 1960, 1978, 2004, 2013, 2019, and 2022 and topographic maps from 1942, 1972, 1998, and 2021 and Fire Insurance Plans from 1880, 1893 and 1927 confirm the development timeline above.

The neighbouring and nearby lands are comprised of a mixture of residential, commercial, and institutional use lands. The current and historic operations on properties located in the Phase One Study Area revealed six [6] PCAs that are considered likely to cause an area of potential environmental concern [APEC] on the Phase One Property, including the following:

- Information contained in the Vernon City Directory Series revealed a commercial automotive repair facility formerly operated on the property recognised as '409 Main Street East', which is located approximately 15 metres northwest [up-gradient] of the Phase One Property;
- Information contained in the Vernon City Directory Series revealed a commercial automotive repair facility formerly operated on the property recognised as '420 Main Street East', which is located approximately 10 metres northeast [up-gradient] of the Phase One Property;
- Information contained in the EcoLog ERIS database search revealed fuel storage tanks on the property recognised as '383 Main Street East', which is located approximately 55 metres northwest [up-gradient] of the Phase One Property;
- Information contained in the Vernon City Directory Series revealed a print shop formerly operated on the property recognised as '361 Main Street East', which is located approximately 50 metres west-southwest [trans-gradient/down-gradient] of the Phase One Property;
- Our visual observations of the Phase One Study Area revealed an active print shop on the property recognised as '357 Main Street East', which is located approximately 55 metres southwest [trans-gradient/down-gradient] of the Phase One Property, and;
- Information contained in the aerial photographs, an acknowledged Record of Site Condition [RSC ID# 79919], and the EcoLog ERIS database search revealed a paperboard container manufacturing facility that formerly operated on the property recognised as '383 Main Street East', which is located approximately 55 metres northwest [up-gradient] of the Phase One Property.

The specific PCA descriptions, and associated APECs, in connection with the identified potential environmental concerns include the following:

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC #1	The historic automotive repair facility on the '17 Prince Street' portion of the Phase One Property.	10. Commercial Autobody Shop [PCA A]	On-Site	Metals, Petroleum Hydrocarbons [PHCs], Volatile Organic Compounds [VOCs], Polycyclic Aromatic Hydrocarbons [PAHs], Polychlorinated Biphenyls [PCBs] and Benzene, Toluene, Ethylbenzene and Xylenes [BTEX]	Soil and Groundwater
APEC #2	The historic automotive repair facility on the '388 Main Street East' portion of the Phase One Property.	10. Commercial Autobody Shop [PCA B]	On-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater
APEC #3	To the north of the dwelling on the '405 Pearl Street' portion of the Phase One Property.	28. Gasoline and Associated Products Storage in Fixed Tanks [PCA C]	On-Site	PHCs, PAHs and BTEX	Soil and Groundwater
APEC #4	In the immediate vicinity of the three [3] former structures on the '388 Main Street East' portion of the Phase One Property.	30. Importation of Fill Material of Unknown Quality [PCA D]	On-Site	Metals, PHCs and BTEX	Soil
APEC #5	The northeastern limit of the Phase One Property.	10. Commercial Autobody Shop [PCA E]	Off-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater
APEC #6	The eastern limit of the Phase One Property.	10. Commercial Autobody Shop [PCA F]	Off-Site	Metals, PHCs, VOCs, PAHs, PCBs, and BTEX.	Soil and Groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Locations of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC #7	The northern limit of the Phase One Property.	28. Gasoline and Associated Products Storage in Fixed Tanks [PCA G]	Off-Site	PHCs, PAHs, and BTEX	Soil and Groundwater
APEC #8	The western limit of the Phase One Property.	31. Ink Manufacturing, Processing and Bulk Storage [PCA H]	Off-Site	Metals, PHCs, VOCs, and BTEX.	Soil
APEC #9	The western limit of the Phase One Property.	31. Ink Manufacturing, Processing and Bulk Storage [PCA I]	Off-Site	Metals, PHCs, VOCs, and BTEX.	Soil
APEC #10	The northern limit of the Phase One Property.	45. Pulp, Paper, and Paperboard Manufacturing and Processing [PCA J]	Off-Site	Metals, VOCs, PHCs and PAHs.	Soil and Groundwater

No other PCAs were identified on the Phase One Property or on the neighbouring lands or lands located within the Phase One Study Area.

4.0 (iv) DEVIATIONS FROM SAMPLING AND ANALYSIS PLAN

Professional care was exercised during the retrieval of each sample, the placement of each sample in the appropriate sample jar, the labeling of the field samples and associated chain of custody and in the delivery of the samples to the testing laboratory.

As our standard operating procedures dictate unusual field observations, such as visual or olfactory evidence of a suspected impact, any deviation from SOIL-MAT ENGINEERS' field sampling and handling protocols or incident on the testing laboratories' side was documented either on our field borehole logs or in-house copy of the sample certificate of analysis. Of note, no deviations were recorded.

4.0 (v) IMPEDIMENTS

Our initial planned Phase Two activities included the advancement of a borehole in APEC #3 to assess potential adverse environmental impacts associated with a former UST on the Site. However, due to site restrictions and access limitations, including a parked vehicle, a borehole was not able to be advanced in APEC #3. It should be noted that APEC #3 is within a residential property and does not affect the filing of a Record of Site Condition on the commercial properties.

5.0 INVESTIGATION METHODS

5.0 (i) GENERAL

There were some deviations in SOIL-MAT ENGINEERS' planned Phase Two ESA activities.

5.0 (ii) DRILLING AND EXCAVATING

The boreholes were advanced using hollow stem continuous flight auger equipment on November 11, 2024 through November 15, 2024, and June 10, 2025 under the supervision of a representative of SOIL-MAT ENGINEERS.

The physical advancement of the boreholes and installation of the groundwater monitoring wells were performed by Davis Drilling Ltd., via a truck mounted drill rig. Of note, an 'interior' borehole ['BH13'] was advanced by Kodiak Drilling in the existing structure located on 17 Prince Street. This specific borehole was advanced via a hydraulic drill rig [Big Beaver Drill Rig].

Soil samples were generally collected in 0.76m intervals from the ground surface to the termination of each borehole. After each sampling event, the split-spoon sampler was thoroughly washed with non-phosphate detergent then rinsed with water before the collection of each subsequent sample to minimise the potential for cross-contamination between samples.

5.0 (iii) SOIL SAMPLING

Soil samples were examined in the field for visual and olfactory evidence of potential impacts such as unusual staining and/or odours, etc., and were split into two separate samples [with the exception of the test pits], including the following:

- One half of the sample was sealed in sampling jars for submission to AGAT for analytical testing, and;
- One half of the sample was sealed in a plastic sampling bag for further characterisation in SOIL-MAT ENGINEERS' in-house soils laboratory.

The soil samples that were picked up at our office by AGAT were sealed in pre-cleaned wide mouth, amber glass sample jars, no head space, as provided by the laboratory. The samples were stored and transported in a cooler and kept under ice packs to minimise potential volatilisation of select parameters. New disposable sampling gloves were used for the collection of each soil sample with care given not to make contact with the samples and gloves. Dedicated sample retrieval equipment, including a stainless steel split-spoon, was used to retrieve each sample and before depositing it directly it into the AGAT Laboratories sample jar.

The samples were picked up at our office by AGAT in coolers equipped with ice packs to help maintain a temperature range between the applicable 0°C to 10°C. As reported on the chain of custody for the soil samples, the samples were picked up at our office by AGAT with average temperature of 6.6°C.

5.0 (iv) FIELD SCREENING MEASUREMENTS

All of the Phase Two ESA soil samples were examined in the field for visual and olfactory evidence of potential PHC impact(s), such as unusual staining and/or odours, etc.

An RKI Eagle was utilised during the collection of the soil samples. The results of the RKI Eagle readings are summarized in the table below:

Sample	Hexene Reading (ppm)
BH5 SS3	470ppm
BH5 SS4	600ppm
* = submitted for PHC analytical testing	

It is noted that all remaining samples recovered were field screened with the RKI Eagle and were recorded with values of 0ppm.

5.0 (v) GROUND WATER: MONITORING WELL INSTALLATION

A 50 millimeter groundwater monitoring well was installed at Borehole Nos. BH1, BH4, BH5, BH6, BH8, BH10, BH12, and BH13 upon the completion of drilling activities. The monitoring wells were installed to a depth of approximately 7.6 meters below ground surface, with a screened interval in the lower 3.0 metres. The groundwater monitoring wells were installed in accordance with *Ontario Regulation 903 [Water Wells]* under the Ontario Water Resources Act.

A water well record was submitted to the Ministry of the Environment, Conservation and Parks [MOE] upon completion of drilling activities. It is the responsibility of the Site owner to ensure the groundwater monitoring well is maintained in an appropriate, safe and secure condition as per the Regulation and to arrange for the monitoring well to be abandoned in accordance with the Regulation when it is no longer in use.

The monitoring well installation details are summarized in the table below.

Monitoring Well	Bottom of Monitoring Well [m bgs]	Bottom of the Borehole Elevation [m]	Screen Length [m]	Screen Interval [m bgs]	Filter Pack [m bgs]	Bentonite Plug [m bgs]	Ground Surface Elevation [m]
MW1	7.62	192.10	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.72
MW4	7.62	192.31	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.93
MW5	7.62	191.94	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.56
MW6	16.8	183.22	3.05	13.7 – 16.7	13.4 – 16.7	0 – 13.4	200.02
MW8	7.62	192.27	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.89
MW10	7.62	192.38	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	200.00
MW12	7.62	192.18	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.80
MW13	7.62	192.26	3.05	4.57 – 7.62	4.2 – 7.6	0 – 4.2	199.88

Of note, the groundwater monitoring well installed at borehole location 'BH6', identified as "MW6" above, was installed for geotechnical purposes only and was not utilised as a sample location as part of our planned Phase Two activities.

5.0 (vi) GROUND WATER: FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

An Oil / Water interface probe was utilized during the monitoring and collection of the groundwater sample. Of note, a light non-aqueous phase liquid [LNAPL] layer was not identified in any of the on-site monitoring wells.

The samples were picked up at our office by AGAT in coolers equipped with ice packs to help maintain a temperature range between the applicable 0°C to 10°C. As reported on the chain of custody for the soil samples, the samples were picked up at our office by AGAT with average temperature of 4.5°C.

5.0 (vii) GROUND WATER: SAMPLING

Three [3] well volumes were purged from the groundwater monitoring wells prior to the collection of the groundwater sample. The monitoring wells were then allowed to recharge back to recorded static groundwater level prior to the physical sample collection.

The monitoring wells installed on the Site during this Phase Two ESA were equipped with dedicated sampling equipment, including a 25 millimetre water bailer for sample collection for the PHC and BTEX parameters.

A low flow bladder pump was utilised for the collection of the groundwater sample for the remaining COPC groupings as the sample was subjected to laboratory analytical testing for VOCs.

Professional care was exercised during the retrieval of each sample, the placement of each sample in the appropriate sample jar, the labeling of the field samples and associated chain of custody and in the delivery of the samples to the testing laboratory.

As our standard operating procedures dictate unusual field observations, such as visual or olfactory evidence of a suspected impact, a deviation from SOIL-MAT ENGINEERS' field sampling and handling protocols or incident on the testing laboratories' side was documented either on our field borehole logs or in-house copy of the sample certificate of analysis.

There were no deviations recorded during the Phase Two ESA sampling activities.

5.0 (viii) SEDIMENT SAMPLING

Sediment sampling was not conducted as part of the Phase Two ESA activities as the medium investigated was limited to the soil and groundwater medium.

5.0 (ix) ANALYTICAL TESTING

All laboratory analytical work was performed by AGAT Laboratories [AGAT] in Mississauga, Ontario.

AGAT is a member of the Canadian Association for Laboratory Accreditation [CALA] and meets the requirements of Section 47 of the Record of Site Condition Regulation.

5.0 (x) RESIDUAL MANAGEMENT PROCEDURES

Soil cuttings produced from the physical drilling activities were stored on-site in steel 45-gallon drums and transported off-site by Davis Drilling Ltd., at the time of drilling.

Purged groundwater was stored on-site in plastic 5-gallon pails until the results of the laboratory analytical testing demonstrated that the groundwater met the applicable SCS at which time the groundwater was discarded across the surface soil in the vicinity of each groundwater sampling point.

5.0 (xi) ELEVATION SURVEYING

All boreholes and groundwater monitoring wells were surveyed by a staff member of SOIL-MAT ENGINEERS to facilitate site relative survey information. A geodetic benchmark, described as the double catch basin [DCB] located on the north side of the Site on Bruce Street, was utilized as a survey reference point with an elevation of 199.38 m.

5.0 (xii) QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

QA/QC was maintained during the field program through equipment decontamination and sampling procedures, as outlined in the "*MOE Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*" (May, 1996).

Standard QA/QC protocols were followed for bottle preparation, sample collection and transportation, as outlined by MOE guidance documents, including the MOE's 2011 "*Protocol for Analytical Methods Used in the Assessment of Properties Under Part XV.1 of the Environmental Protection Act*".

In addition to these field-based measures, extensive QA/QC procedures were carried out by the analytical laboratories, including:

- Lab blanks;
- Spikes;
- Matrix blanks; and
- Instrument blanks and assessments of instrument tuning and performance.

Based on the evaluation of the sampling and analytical procedures used, the following data quality statements can be made:

- The data are adequate for the RSC objectives and approach utilized; and,
- Soil analytical data were of an acceptable quality for comparison to 2011 MOE Table 3 SCSs as defined by *O.Reg.153/04, as amended,* for current investigations.

6.0 REVIEW AND EVALUATION

6.0 (i) GEOLOGY

SOIL-MAT ENGINEERS' Phase Two ESA revealed the following Site stratigraphy:

- TOPSOIL: A surficial veneer of topsoil approximately 250 millimetres in thickness was encountered at Borehole No. 14. It is noted that the depth of topsoil may vary across the site and from the depth encountered at the borehole location, and that a conservative approach should be taken in estimating topsoil quantities across the site. It is also noted that the term 'topsoil' has been used from a geotechnical point of view, and does not necessarily reflect its nutrient content or ability to support plant life.
- PAVEMENT STRUCTURE: All Boreholes, with the exception of Borehole Nos.: BH13 and BH14 were advanced through the pavement structure of the existing driveway/parking lot which was found to consist of approximately 30 to 150 millimetres of asphaltic concrete overlying 100 to 350 millimetres of compact granular base.
- CONCRETE FLOOR SLAB STRUCTURE: Borehole No. 13 was advanced through the concrete floor slab of the existing autobody garage and repair shop located at 17 Prince Street, and was found to consist of approximately 150 millimetres of concrete overlying approximately 150 millimetres of compact granular base.
- SAND FILL: Sand fill material was encountered beneath the pavement structure in Borehole No. 9. The granular material was reddish brown in colour, containing traces of silt and gravel, with occasional concrete debris, and was generally found to be in a compact state. The sandy fill material was proven to a depth of approximately 0.9 metres below the existing ground surface at Borehole No. 9.
- SILTY CLAY/ CLAYEY SILT FILL: Silty clay/clayey silt fill material was encountered beneath the pavement or concrete slab at the majority of borehole locations. The silty clay/clayey silt fill material was brown to reddish brown and grey in colour, typically containing trace to some sand and gravel, occasional to frequent organic inclusions and staining, occasional deposits of sand, gravel, and cobbles, and was generally found to be soft to hard in terms of consistency. The fill encountered was proven to depths of between approximately 1.1 to 2.8 metres below the existing ground surface, however fill material of greater depths may be present across the site. It is noted that the fill material encountered appeared consistent with the composition of the soils native to the area. As such, material identified as fill may be weathered/disturbed native soils. Conversely, material identified as native soils, may in fact be compacted fill material, relatively free of organics and construction debris.
- SANDY CLAYEY SILT: Native sandy clayey silt soil was beneath the topsoil and/or fill deposits at all of the borehole locations. The sandy clayey silt was brown to reddish brown in colour, transitioning to grey in colour at depths of approximately 4 metres below the existing ground surface. The native material contained traces of to some gravel, exhibited a reworked/weathered appearance in the upper levels of Borehole No. 14, and was generally stiff to hard in consistency. The fine-grained to cohesive native soil was proven to termination/practical auger refusal at depths of between approximately 3.4 and 21.8 metres below the existing ground surface.

- SAND AND GRAVEL: A layer of native sand and gravel material was encountered within the native sandy clayey silt in Borehole No. 11. The layer was encountered at a depth of approximately 8 metres, and is estimated to be perhaps 2 to 3 metres in thickness, possibly greater. The granular material was grey in colour, containing traces of to some silt and clay, occasional cobbles, and was generally found to be in a compact to dense state. At this specific location, the native sand and gravel was encountered to a depth of approximately 9.4 metres below the existing ground surface. Regardless, similar sand and gravel deposits may be present at varying depths, and of varying thickness, across the site, and should be anticipated.
- QUEENSTON SHALE: The Queenston shale bedrock was encountered beneath the native sandy clayey silt in Borehole No. 6 at a depth of approximately 18.8 metres, and inferred from auger and refusal beneath the native sandy clayey silt in Borehole Nos. 2, and 14, at depths of approximately 18.3 and 18.5 metres, respectively. The Queenston Shale is generally red in colour with occasional more resistant grey layers, highly weathered in the upper levels, becoming sounder with depth.
- GROUNDWATER: The depth to the groundwater table is anticipated to be approximately 3.13 to 5.07 metres below ground surface based on groundwater readings secured from the monitoring wells installed on the Site. Seasonal fluctuations to this level should be expected.

6.0 (ii) GROUND WATER: ELEVATIONS AND FLOW DIRECTIONS

A groundwater monitoring well was installed at Borehole Nos. BH1, BH4, BH5, BH6, BH8, BH10, BH12, and BH13 for future monitoring of the static groundwater level and to facilitate the collection of groundwater samples for laboratory analytical testing. Of note, the groundwater monitoring well installed at borehole location 'BH6', identified as "MW6" above, was installed for geotechnical purposes only and was not utilised as a sample location as part of our planned Phase Two activities.

The monitoring installation details are summarized in the table below:

TABLE A
SUMMARY OF GROUNDWATER LEVELS

Groundwater Monitoring Well	Surface Elevation (m)	November 27, 2024		December 5, 2024		July 18, 2025		July 30, 2025	
		Depth [m]	Elev. [m]	Depth [m]	Elev. [m]	Depth [m]	Elev. [m]	Depth [m]	Elev. [m]
MW1	199.72	3.38	196.34	3.51	196.21				
MW4	199.93	3.44	196.49	3.13	196.80				
MW5	199.56	5.46	194.10	5.46	194.10				
MW6	200.02	6.71	193.31	6.79	193.23				
MW8	199.89	4.57	195.32	4.55	195.34				
MW10	200.00	5.07	194.93	5.25	194.75				
MW12	199.80	3.37	196.43	3.51	196.29				
MW13	199.88					5.31	194.57	5.62	194.26

Based on the water level readings, our observations during the Phase Two activities, and our experience in the area, etc. the static groundwater level is estimated at a depth of approximately 3.13 to 5.07 metres below the ground surface and would be expected to fluctuate seasonally. Regardless, some shallower perched deposits of water may be encountered and should be anticipated, especially during the 'wet' times of the year.

The monitoring well location is illustrated on Drawing No. 2 in Appendix 'B'.

6.0 (iii) GROUND WATER: HYDRAULIC GRADIENTS

The horizontal hydraulic gradient was calculated based on the groundwater levels recorded during the Phase Two activities. Based on these recordings, the distance between the groundwater monitoring wells and the depth of well installation the horizontal hydraulic gradient was calculated as 0.00340, as follows:

Horizontal hydraulic gradient = $\Delta h / \Delta L$
= (MW 1 groundwater elevation in metres – MW 5 groundwater elevation in metres)/ (Distance between MW 1 and MW 5 in metres)
= (199.72 metres – 199.56 metres)/ 47 metres
= 0.16 metres/ 47 metres
=0.00340

6.0 (iv) MEDIUM TO FINE SOIL TEXTURE

SOIL-MAT ENGINEERS' conducted hydrometer testing on six [6] recovered samples. The result of the hydrometer indicates that the surface and subsurface soil consists primarily of a brown silty sandy clay with traces of gravel. Given the above, the soil has more than 50% finer than the 75 μm sieve, and as such is classified as medium to fine textured.

6.0 (v) SOIL: FIELD SCREENING

SOIL-MAT ENGINEERS did not observe any visual or olfactory evidence that suggested a new COPC grouping should be considered during the assessment activities.

6.0 (vi) SOIL QUALITY

In total, twenty seven [27] soil samples, including three [3] duplicate samples, were secured from the Site to assess potential adverse impact(s) on the Site as a result of the PCAs identified in our Phase One ESA report.

The secured soil samples were submitted to AGAT for laboratory analytical testing as described in the summary table below:

SUMMARY OF TESTED SOIL SAMPLES

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description
BH1 SS2 [PCA E, F, G, J / APEC 5, 6, 7, 10]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description
BH1 SS6 [PCA E, F, G, J / APEC 5, 6, 7, 10]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt
BH2 SS2 [PCA D / APEC 4]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill
BH2 SS3 [PCA D / APEC 4]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Sandy Clayey Silt
BH3 SS1 [PCA D / APEC 4]	0 – 0.6	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill
BH3 SS2 [PCA D / APEC 4]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill
BH4 SS2 [PCA F / APEC 6]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
BH4 SS6 [PCA F / APEC 6]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt
BH5 SS1 [PCA E, G, J / APEC 5, 7, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill
BH5 SS2 [PCA E, G, J / APEC 5, 7, 10]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill
BH5 SS5 [PCA E, G, J / APEC 5, 7, 10]	3.1 – 3.7	Metals, ORPs, PHCs, BTEX, VOCs	Sandy Clayey Silt
BH8 SS1 [PCA G, H, I, J / APEC 7, 8, 9, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill
BH8 SS7 [PCA G, H, I, J / APEC 7, 8, 9, 10]	4.6 – 5.2	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Sandy Clayey Silt
BH9 SS1 [PCA D, G, J / APEC 4, 7, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX	Sand Fill
BH9 SS3 [PCA D, G, J / APEC 4, 7, 10]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill
BH10 SS2 [PCA B / APEC 2]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
BH10 SS6 [PCA B / APEC 2]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt
BH11 SS2 [PCA B / APEC 2]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
BH11 SS6 [PCA B / APEC 2]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt
BH12 SS1 [PCA H, I / APEC 8, 9]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs	Silty Clay/ Clayey Silt Fill
BH12 SS7 [PCA H, I / APEC 8, 9]	4.6 – 5.2	Metals, ORPs, PHCs, BTEX, VOCs	Sandy Clayey Silt
BH13 SS1 [PCA A / APEC 1]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
BH13 SS2 [PCA A / APEC 1]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
BH13 SS5 [PCA A / APEC 1]	4.6 – 5.2	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description
Dup 1 [BH9 SS3] [PCA D, G, J / APEC 4, 7, 10]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill
Dup 2 [BH2 SS3] [PCA D / APEC 4]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Sandy Clayey Silt
Dup 3 [BH13 SS2] [PCA A / APEC 1]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill
Notes: Metals including hydrides = As, Sb, Se, ORPs = BHWS, CN, EC, Cr (VI), Hg and SAR, PHCs = Petroleum Hydrocarbons, BTEX = Benzene, Toluene, Ethylbenzene, and Xylene Mixture, VOCs = Volatile Organic Compounds, PAHs = Polycyclic Aromatic Hydrocarbons, PCBs = Polychlorinated Biphenyls			

The laboratory analytical test results for the submitted soil samples are summarised below:

SUMMARY OF SOIL SAMPLE TEST RESULTS

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description	Table 3 RPI Exceedances
BH1 SS2 [PCA E, F, G, J / APEC 5, 6, 7, 10]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH1 SS6 [PCA E, F, G, J / APEC 5, 6, 7, 10]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt	No exceedances reported
BH2 SS2 [PCA D / APEC 4]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill	Exceeds for: Barium – 622 µg/g vs 390 µg/g Lead – 165 µg/g vs 120 µg/g Zinc – 2100 µg/g vs 340 µg/g
BH2 SS3 [PCA D / APEC 4]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Sandy Clayey Silt	No exceedances reported
BH3 SS1 [PCA D / APEC 4]	0 – 0.6	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill	Exceeds for: Lead – 217 µg/g vs 120 µg/g
BH3 SS2 [PCA D / APEC 4]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH4 SS2 [PCA F / APEC 6]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH4 SS6 [PCA F / APEC 6]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt	No exceedances reported
BH5 SS1 [PCA E, G, J / APEC 5, 7, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill	Exceeds for: EC – 1.22 mS/cm vs 0.7 mS/cm SAR – 7.46 µg/g vs 5 µg/g Naphthalene – 5.29 µg/g vs 0.75 µg/g 2-and 1-methyl Naphthalene – 4.12 µg/g vs 3.4 µg/g PHC F1 – 3230 µg/g vs 65 µg/g PHC F2 – 701 µg/g vs 150 µg/g Benzene – 20.2 µg/g vs 0.17 µg/g Toluene – 76.0 µg/g vs 6 µg/g Ethylbenzene – 118 µg/g vs 15 µg/g Xylenes (Total) – 579 µg/g vs 25 µg/g n Hexane – 117 µg/g vs 34 µg/g

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description	Table 3 RPI Exceedances
BH5 SS2 [PCA E, G, J / APEC 5, 7, 10]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill	Exceeds for: EC – 1.04 mS/cm vs 0.7 mS/cm SAR – 6.62 µg/g vs 5 µg/g Naphthalene – 5.76 µg/g vs 0.75 µg/g 2-and 1-methyl Naphthalene – 4.77 µg/g vs 3.4 µg/g PHC F1 – 3290 µg/g vs 65 µg/g PHC F2 – 384 µg/g vs 150 µg/g Benzene – 25.8 µg/g vs 0.17 µg/g Toluene – 145 µg/g vs 6 µg/g Ethylbenzene – 139 µg/g vs 118 µg/g vs 15 µg/g Xylenes (Total) – 716 µg/g vs 25 µg/g n Hexane – 114 µg/g vs 34 µg/g
BH5 SS5 [PCA E, G, J / APEC 5, 7, 10]	3.1 – 3.7	Metals, ORPs, PHCs, BTEX, VOCs	Sandy Clayey Silt	No exceedances reported
BH8 SS1 [PCA G, H, I, J / APEC 7, 8, 9, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH8 SS7 [PCA G, H, I, J / APEC 7, 8, 9, 10]	4.6 – 5.2	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	Sandy Clayey Silt	No exceedances reported
BH9 SS1 [PCA D, G, J / APEC 4, 7, 10]	0 – 0.6	Metals, ORPs, PHCs, BTEX	Sand Fill	No exceedances reported
BH9 SS3 [PCA D, G, J / APEC 4, 7, 10]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH10 SS2 [PCA B / APEC 2]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH10 SS6 [PCA B / APEC 2]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt	No exceedances reported
BH11 SS2 [PCA B / APEC 2]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH11 SS6 [PCA B / APEC 2]	3.8 – 4.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Sandy Clayey Silt	No exceedances reported
BH12 SS1 [PCA H, I / APEC 8, 9]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH12 SS7 [PCA H, I / APEC 8, 9]	4.6 – 5.2	Metals, ORPs, PHCs, BTEX, VOCs	Sandy Clayey Silt	No exceedances reported
BH13 SS1 [PCA A / APEC 1]	0 – 0.6	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH13 SS2 [PCA A / APEC 1]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
BH13 SS5 [PCA A / APEC 1]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description	Table 3 RPI Exceedances
Dup 1 [BH9 SS3] [PCA D, G, J / APEC 4, 7, 10]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Silty Clay/ Clayey Silt Fill	No exceedances reported
Dup 2 [BH2 SS3] [PCA D / APEC 4]	1.5 – 2.1	Metals, ORPs, PHCs, BTEX	Sandy Clayey Silt	No exceedances reported
Dup 3 [BH13 SS2] [PCA A / APEC 1]	0.8 – 1.4	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	Silty Clay/ Clayey Silt Fill	No exceedances reported
Notes: Metals including hydrides = As, Sb, Se, ORPs = BHWS, CN, EC, Cr (VI), Hg and SAR, PHCs = Petroleum Hydrocarbons, BTEX = Benzene, Toluene, Ethylbenzene, and Xylene Mixture, VOCs = Volatile Organic Compounds, PAHs = Polycyclic Aromatic Hydrocarbons, PCBs = Polychlorinated Biphenyls				

The laboratory analytical test results, for the submitted soil samples, revealed the following exceedances of the applicable Table 3 SCSs:

- Soil sample 'BH2 SS2', revealed elevated levels of select metal parameters [specifically Barium, Lead, and Zinc] at a depth of between 0.8 to 1.4 metres below ground surface [m bgs];
- Soil sample 'BH3 SS1', revealed an elevated level of a select metal parameter [specifically Lead] at a depth of between 0 to 0.6 m bgs, and;
- Soil samples 'BH5 SS1' and 'BH5 SS2', revealed multiple elevated levels of select petroleum hydrocarbon [PHC], benzene, toluene, ethylbenzene, and xylenes [BTEX], volatile organic compound [VOC] and polycyclic aromatic hydrocarbon [PAH] parameters [specifically Naphthalene, 2-and 1-methyl Naphthalene, PHC F1 (C6 to C10), PHC F2 (C10 to C16), Benzene, Toluene, Ethylbenzene, Xylenes (Total), n Hexane] at a depth of approximately 0.1 to 1.4 m bgs, and;
- Elevated levels of electrical conductivity [EC] and sodium adsorption ratio [SAR] were found to exceed the Table 3 RPI SCSs at Borehole No.: BH5 at a depth of 0 – 1.4 m bgs. However, Section 49.1 of Regulation 153/04 [as amended], provides the following exemption: "If an applicable site condition standard is exceeded at a property solely because of one of the following reasons, the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act:
    - The qualified person has determined, based on a phase one environmental site assessment or a phase two environmental site assessment, that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both."

Given the historical use of de-icing salts on the Site as a commercial parking lot and use on the adjacent municipal roadways, it is the opinion of the SOIL-MAT ENGINEERS that the elevated levels of the noted parameters are a direct result of a substance applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. As such, EC and SAR are not considered contaminants on the Site. In addition, the soil samples with reported elevated levels of EC and/or SAR above the Table 3 RPI SCSs are not considered to exceed the Standards.

With the exception of the above, all the other soil samples subjected to laboratory analytical testing were found to be within the applicable Table 3 RPI SCSs for the select tested COPC groupings.

The Phase Two Property, borehole locations and laboratory analytical test results are illustrated on Drawing Nos. 3A-G, and 4A-F in Appendix 'B'. SOIL-MAT ENGINEERS' borehole logs are also included in Appendix 'B' for reference.

The AGAT Certificate of Analysis is included in Appendix 'B' for reference.

6.0 (vii) GROUND WATER QUALITY

In total, seven [7] groundwater samples, including one duplicate sample, was secured from the Site to assess potential adverse impact(s) on the Site as a result of the on-site PCA identified in our Phase One ESA report.

The secured groundwater sample was submitted to AGAT for laboratory analytical testing as described in the summary table below:

Sample ID	Laboratory Analysis
MW1-S1 [PCA E, F, G, J / APEC 5, 6, 7, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs
MW4-S1 [PCA F / APEC 6]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs
MW5-S1 [PCA E, G, J / APEC 5, 7, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs
MW8-S1 [PCA G, H, I, J / APEC 7, 8, 9, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs
MW10-S1 [PCA B / APEC 2]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs
MW12-S1 [PCA H, I / APEC 8, 9]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs
BH13 SS5 [PCA A / APEC 1]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs
Dup 1 [MW8-S1] [PCA G, H, I, J / APEC 7, 8, 9, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs
Notes: Metals including hydrides = As, Sb, Se, ORPs = BHWS, CN, Sodium, Cr (VI), Hg and Chloride, PHCs = Petroleum Hydrocarbons, BTEX = Benzene, Toluene, Ethylbenzene, and Xylene Mixture, VOCs = Volatile Organic Compounds, PAHs = Polycyclic Aromatic Hydrocarbons, PCBs = Polychlorinated Biphenyls	

The laboratory analytical test results for the submitted water sample are summarised below:

SUMMARY OF ANALYTICAL TESTING – WATER [TABLE 3 NPGW]

Sample ID	Laboratory Analysis	Table 3 NPGW Exceedances
MW1-S1 [PCA E, F, G, J / APEC 5, 6, 7, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	No exceedances reported
MW4-S1 [PCA F / APEC 6]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	No exceedances reported
MW5-S1 [PCA E, G, J / APEC 5, 7, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	No exceedances reported
MW8-S1 [PCA G, H, I, J / APEC 7, 8, 9, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	No exceedances reported

Sample ID	Laboratory Analysis	Table 3 NPGW Exceedances
MW10-S1 [PCA B / APEC 2]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	No exceedances reported
MW12-S1 [PCA H, I / APEC 8, 9]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	No exceedances reported
BH13 SS5 [PCA A / APEC 1]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs, PCBs	No exceedances reported
Dup 1 [MW8-S1] [PCA G, H, I, J / APEC 7, 8, 9, 10]	Metals, ORPs, PHCs, BTEX, VOCs, PAHs	No exceedances reported
Notes: Metals including hydrides = As, Sb, Se, ORPs = BHWS, CN, Sodium, Cr (VI), Hg and Chloride, PHCs = Petroleum Hydrocarbons, BTEX = Benzene, Toluene, Ethylbenzene, and Xylene Mixture, VOCs = Volatile Organic Compounds, PAHs = Polycyclic Aromatic Hydrocarbons, PCBs = Polychlorinated Biphenyls		

The laboratory analytical test results for the submitted groundwater samples indicate the following:

- The laboratory analytical test results for all of the submitted groundwater samples are all below the applicable Table 3 RPI SCSs for the select tested COPC groupings.

The Phase Two Property, groundwater monitoring well locations and laboratory analytical test results are illustrated on Drawing Nos. 3A-G, and 4A-F in Appendix 'B'

The AGAT certificate of analysis for the groundwater analytical data is contained in Appendix 'D' for reference.

6.0 (viii) SEDIMENT QUALITY

Sediment sampling was not conducted as part of the planned Phase Two activities.

6.0 (ix) QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

QA/QC was maintained during the field program through equipment decontamination and sampling procedures, as outlined in the "*MOE Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*" (May, 1996).

Standard QA/QC protocols were followed for bottle preparation, sample collection and transportation, as outlined by MOE guidance documents, including the MOE's 2011 "*Protocol for Analytical Methods Used in the Assessment of Properties Under Part XV.1 of the Environmental Protection Act*".

In addition to these field-based measures, extensive QA/QC procedures were carried out by the analytical laboratories, including:

- Lab blanks;
- Spikes;
- Matrix blanks; and
- Instrument blanks and assessments of instrument tuning and performance.

Based on the evaluation of the sampling and analytical procedures used, the following data quality statements can be made:

- The data is adequate for the RSC objectives and approach utilized; and,
- Soil analytical data were of an acceptable quality for comparison to Table 9 SCS as defined by *O.Reg.153/04, as amended,* for current investigations.

No deviations from the QA/QC protocols were noted during the completion of the Phase Two ESA fieldwork.

6.0 (x) PHASE TWO CONCEPTUAL SITE MODEL

SOIL-MAT ENGINEERS' has not prepared a Phase Two CSM as part of this Phase Two ESA as additional intrusive soil sampling is recommended for the Site. However, a Phase Two CSM will be prepared to support the filing of an RSC once the Phase Two Property has either been subjected to a remedial action plan or some level of risk assessment [RA] activities or a combination of both, etc.

7.0 CONCLUSIONS

A description of the staff members associated with the completion of the Supplemental Phase Two ESA activities is contained in Appendix 'D' of this Report. The ESA activities were supervised by Mr. Steve Sears, P. Eng., QP_{ESA}, who is a Qualified Person for the undertaking of ESA activities.

Based on SOIL-MAT ENGINEERS' field observations and the laboratory analytical test results received in its office, SOIL-MAT ENGINEERS is pleased to offer the following:

Based on SOIL-MAT ENGINEERS' field observations and the laboratory analytical test results received in its office, SOIL-MAT ENGINEERS is pleased to offer the following:

SOIL SAMPLING SUMMARY

The laboratory analytical test results, for the submitted soil samples, revealed the following exceedances of the applicable Table 3 Residential/Parkland/Institutional Land Use Site Condition Standards [Table 3 RPI SCSs]:

- Soil sample 'BH2 SS2', revealed elevated levels of select metal parameters [specifically Barium, Lead, and Zinc] at a depth of between 0.8 to 1.4 m bgs;
- Soil sample 'BH3 SS1', revealed an elevated level of a select metal parameter [specifically Lead] at a depth of between 0 to 0.6 m bgs, and;
- Soil samples 'BH5 SS1' and 'BH5 SS2', revealed multiple elevated levels of select PHC, BTEX, VOC and PAH parameters [specifically Naphthalene, 2-and 1-methyl Naphthalene, PHC F1 (C6 to C10), PHC F2 (C10 to C16), Benzene, Toluene, Ethylbenzene, Xylenes (Total), n Hexane] at a depth of approximately 0.1 to 1.4 m bgs.

With the exception of the above, all the other soil samples subjected to laboratory analytical testing were found to be within the applicable Table 3 RPI SCSs for the select tested COPC groupings.

GROUNDWATER SAMPLING SUMMARY

The laboratory analytical test results for all of the submitted groundwater samples are all below the applicable Table 3 RPI SCSs for the select tested COPC groupings.

NEXT STEPS

As noted above, elevated levels of select Metal, PHC, BTEX, VOC and PAH parameters were identified within the soil medium on the Phase Two Property. The elevated levels of the select COCs were identified at depths up to of 1.4 m bgs. However, the analytical test results [to date] do not provide a reasonable vertical delineation for the PHC, BTEX, VOC and PAH parameters. In addition, although the lateral delineation can be defined, with the existing analytical test results, it is highly anticipated that the lateral delineation can be better defined to a significantly reduced area.

In addition to the above, our initial planned Phase Two activities included the advancement of a borehole in APEC #3 to assess potential adverse environmental impacts associated

with a former UST on the Site. However, due to site restrictions and access limitations, including a parked vehicle, a borehole was not able to be advanced in APEC #3. As such, intrusive soil and groundwater sampling to assess this specific location on the Site is required. It should be noted that APEC #3 is located within a residential property and would not affect the filing of a Record of Site Condition on the commercial properties, however, it is noted that although an RSC is not required on the residential portions of the Phase Two Property, the Town of Milton may request an RSC be filed on the entire development lands.

Given the above, it is the opinion of SOIL-MAT ENGINEERS that a Record of Site Condition to support the proposed residential development of the Site cannot be filed without further intrusive soil sampling within the areas of exceedances noted within the commercial properties.

The samples secured for analytical testing are believed to be representative of the conditions at the sample locations only. If any significant changes are noted, i.e., odours, staining etc., SOIL-MAT ENGINEERS should be contacted to reassess the environmental characteristics of the Site.

It is noted that subsurface soil conditions may be present on-site that are not typical of those presented in this Report. If future activities reveal such soils, SOIL-MAT ENGINEERS should be contacted to assess the soil conditions with respect to the proposed activity.

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of MIKMADA HOMES. The material in it reflects SOIL-MAT ENGINEERS' best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

We trust this Report is satisfactory for your purposes. Please feel free to contact our Office if you have any questions, or we may be of further service to you.

Yours very truly,
SOIL-MAT ENGINEERS & CONSULTANTS LTD.

Geena Gilmour, B.A.
Environmental Technician

Keith Gleadall, B.A., EA Dipl.
Environmental Manager

Stephen R. Sears, B. Eng. Mgmt., P. Eng., QP_{ESA}
Review Engineer

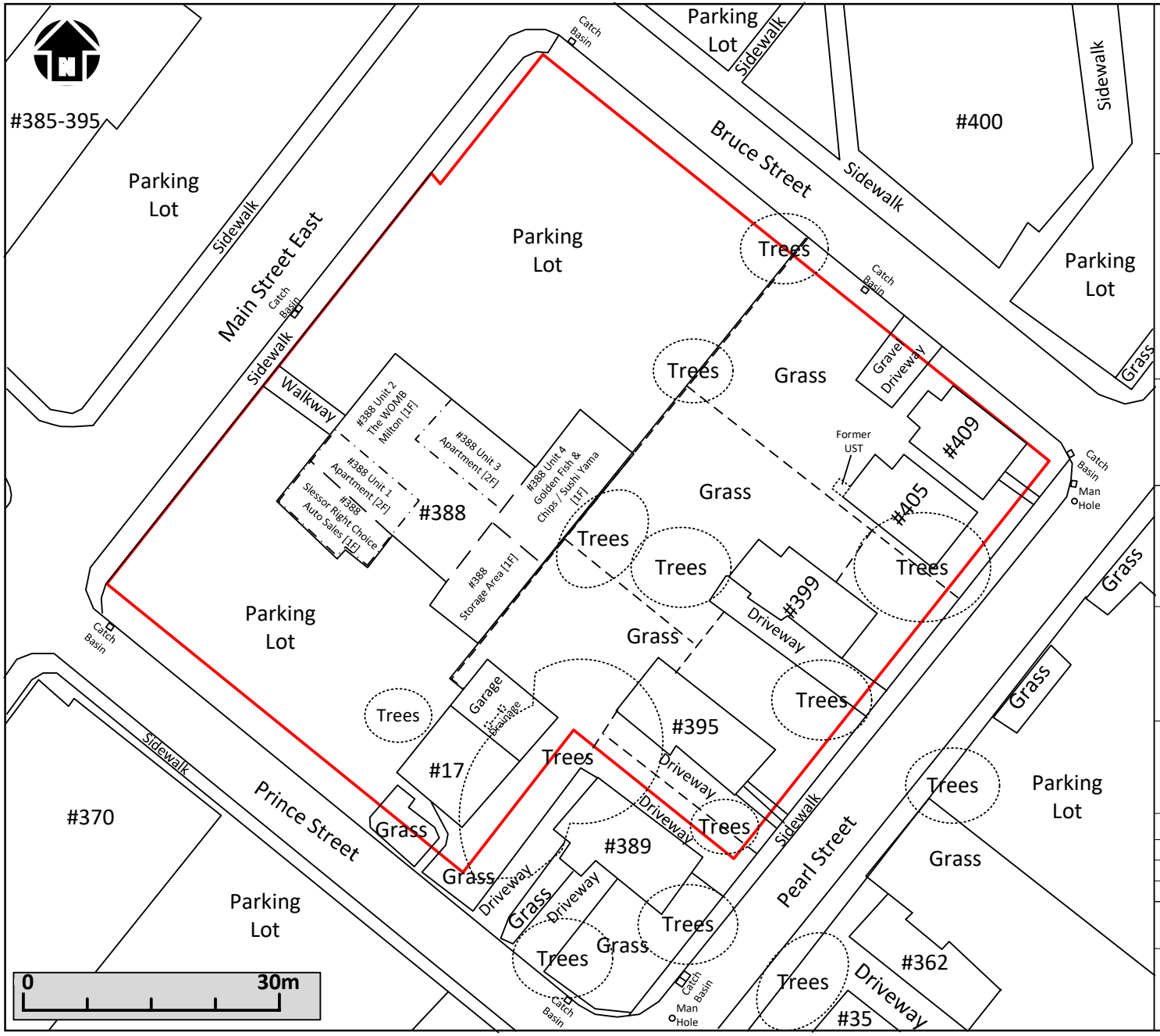
Distribution: MIKMADA HOMES [1]

Enclosures:

Appendix 'A'	Site Plan Drawings and Borehole Logs;
Appendix 'B'	AGAT Soil Analytical Data;
Appendix 'C'	AGAT Ground Water Analytical Data;
Appendix 'D'	Qualifications of Assessors;
Appendix 'E'	Statement of Limitations

Appendix 'A'

1. Drawing No.: 1: Site Plan;
2. Drawing No.: 1A: APECs;
3. Drawing No.: 2: Groundwater Flow Direction;
4. Drawing No.: 3: Borehole and Monitoring Well Location Plan;
5. Drawing No.: 3A: Analytical Data Summary [Soil] – Metals & ORPs;
6. Drawing No.: 3B: Analytical Data Summary [Soil] – EC & SAR;
7. Drawing No.: 3C: Analytical Data Summary [Soil] – PHCs;
8. Drawing No.: 3D: Analytical Data Summary [Soil] – BTEX;
9. Drawing No.: 3E: Analytical Data Summary [Soil] – VOCs;
10. Drawing No.: 3F: Analytical Data Summary [Soil] – PAHs;
11. Drawing No.: 3G: Analytical Data Summary [Soil] – PCBs;
12. Drawing No.: 4A: Analytical Data Summary [Groundwater] – Metals & ORPs;
13. Drawing No.: 4B: Analytical Data Summary [Groundwater] – PHCs;
14. Drawing No.: 4C: Analytical Data Summary [Groundwater] – BTEX;
15. Drawing No.: 4D: Analytical Data Summary [Groundwater] – VOCs;
16. Drawing No.: 4E: Analytical Data Summary [Groundwater] – PAHs;
17. Drawing No.: 4F: Analytical Data Summary [Groundwater] – PCBs;
18. Borehole Logs



LEGEND

= Site Boundary

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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PROJECT TITLE

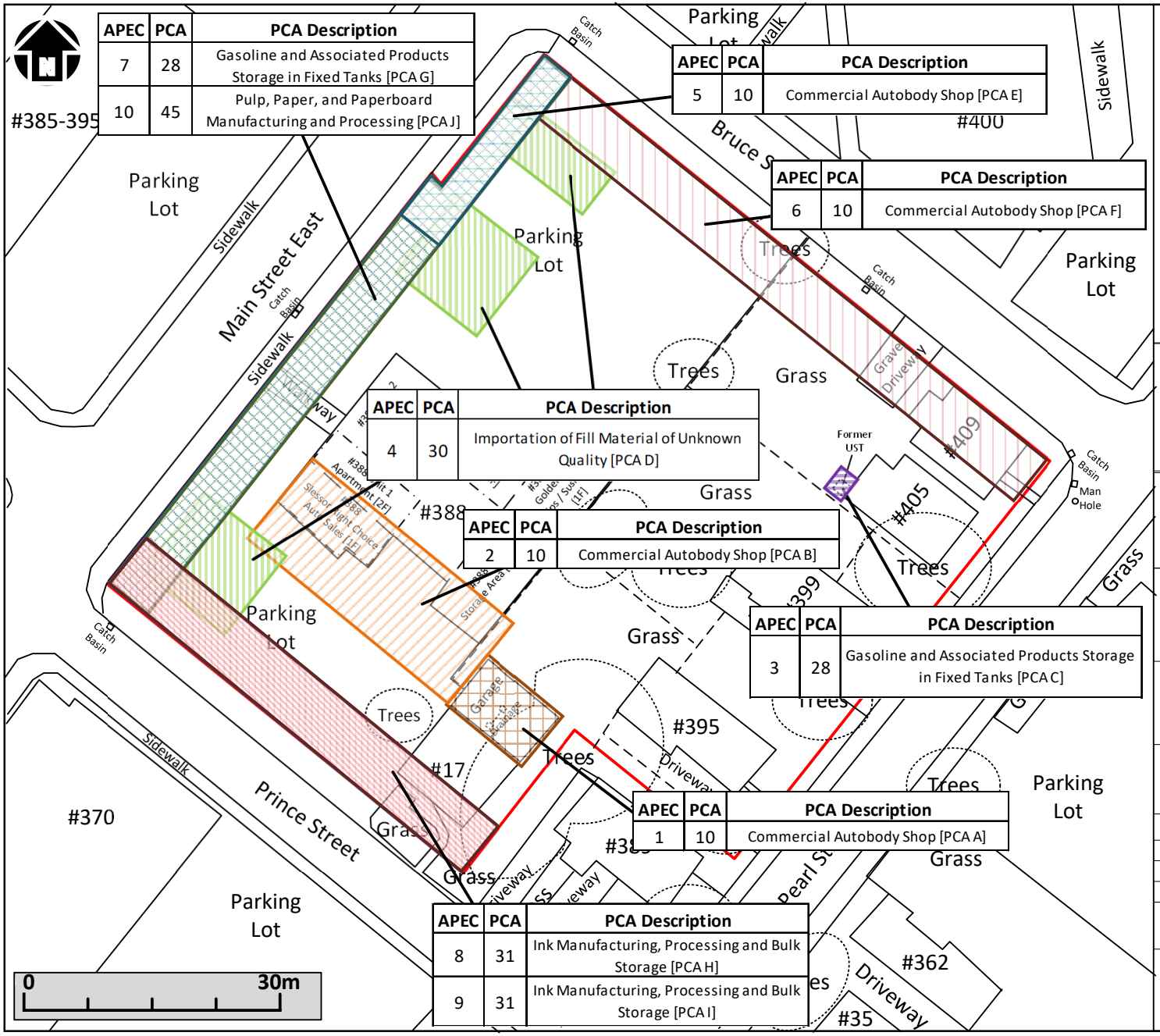
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE

Site Plan

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 1



APEC	PCA	PCA Description
7	28	Gasoline and Associated Products Storage in Fixed Tanks [PCA G]
10	45	Pulp, Paper, and Paperboard Manufacturing and Processing [PCA J]

APEC	PCA	PCA Description
5	10	Commercial Autobody Shop [PCA E]

APEC	PCA	PCA Description
6	10	Commercial Autobody Shop [PCA F]

APEC	PCA	PCA Description
4	30	Importation of Fill Material of Unknown Quality [PCA D]

APEC	PCA	PCA Description
2	10	Commercial Autobody Shop [PCA B]

APEC	PCA	PCA Description
3	28	Gasoline and Associated Products Storage in Fixed Tanks [PCA C]

APEC	PCA	PCA Description
1	10	Commercial Autobody Shop [PCA A]

APEC	PCA	PCA Description
8	31	Ink Manufacturing, Processing and Bulk Storage [PCA H]
9	31	Ink Manufacturing, Processing and Bulk Storage [PCA I]

LEGEND

- = Site Boundary
- = APEC #1
- = APEC #2
- = APEC #3
- = APEC #4
- = APEC #5
- = APEC #6
- = APEC #7
- = APEC #8
- = APEC #9
- = APEC #10

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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PROJECT TITLE

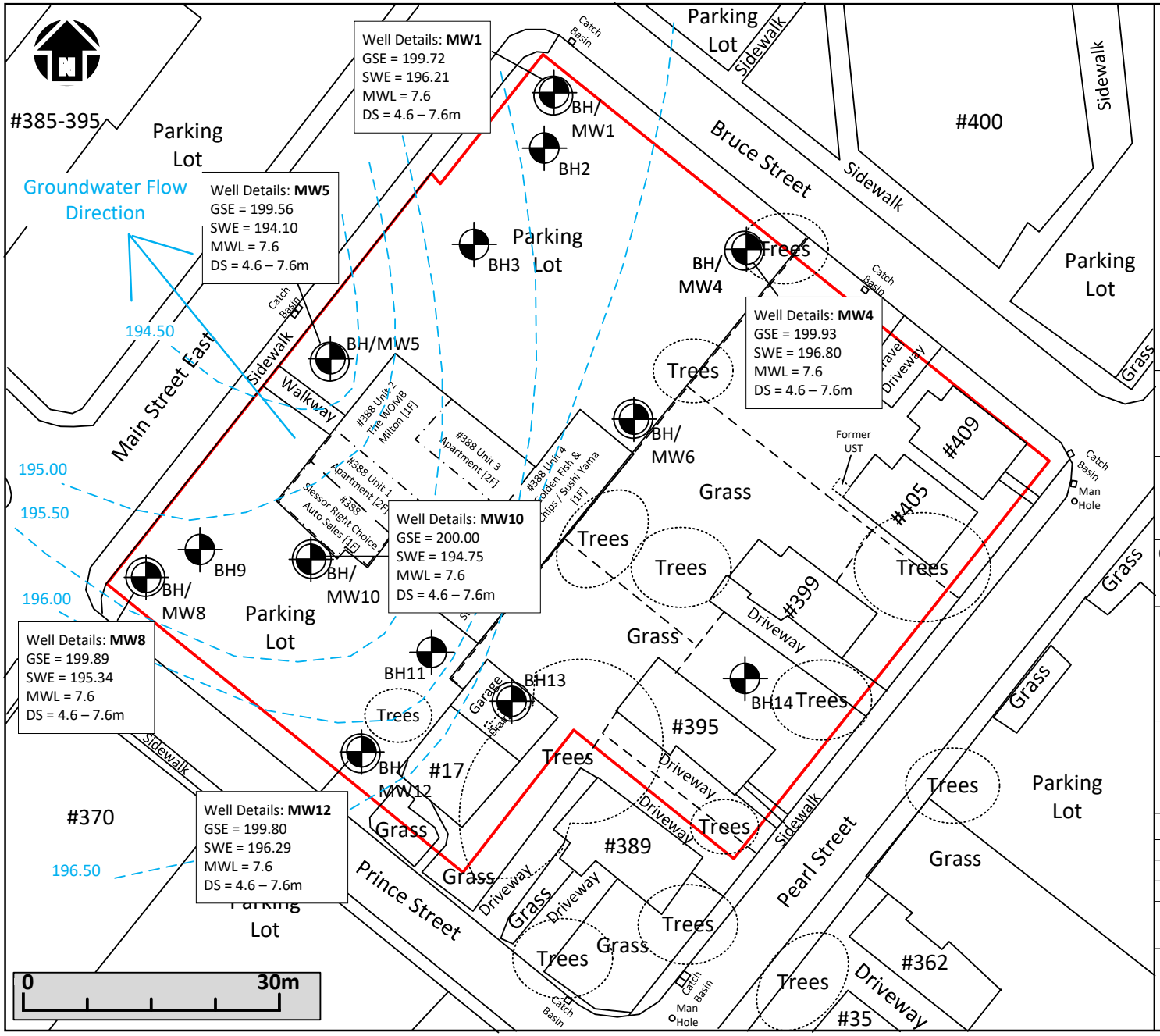
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE

APECs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 1A



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.

GSE = Monitoring Well Ground Surface Elevation
SWE = Static Water Elevation
MWL = Monitoring Well Length
MWSIE = Monitoring Well Screen Interval Elevation
DS = Depth of Screen

NOTES:
1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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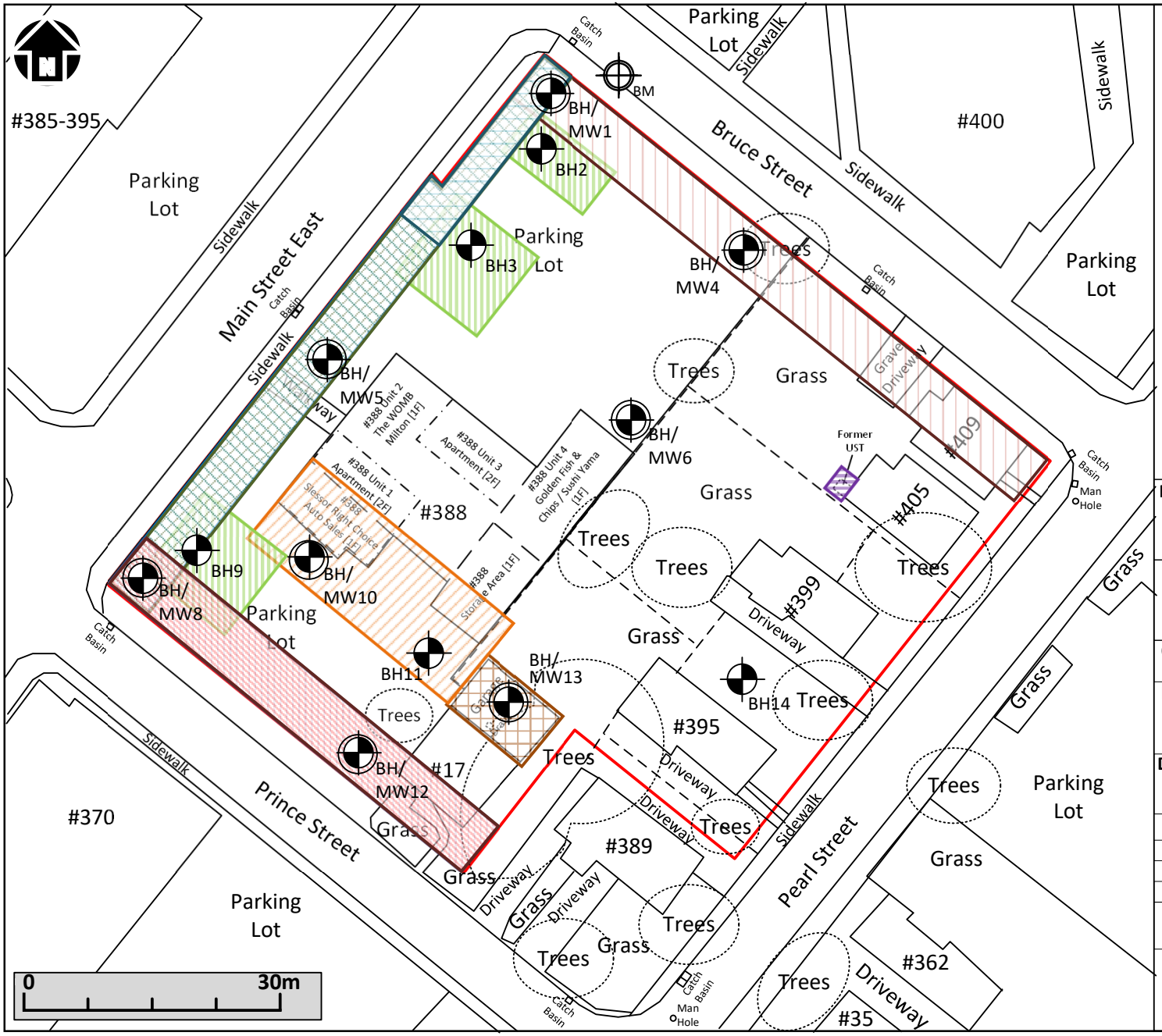
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Groundwater Flow

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 2



NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E
2. Borehole locations are approximate

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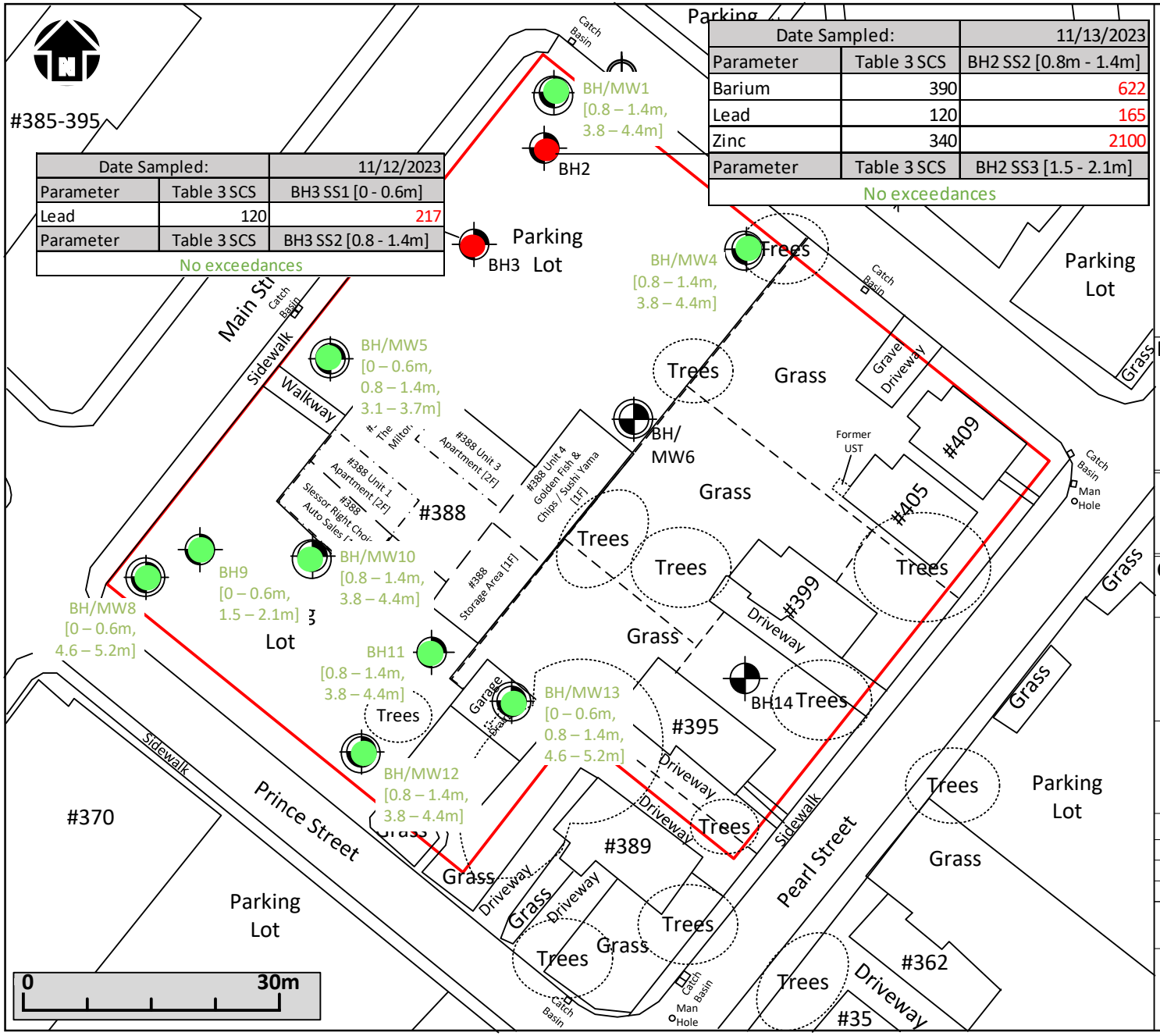
CLIENT	MIKMADA HOMES
PROJECT TITLE	Phase Two Environmental Site Assessment Main Street East and Prince Street Milton, Ontario
DRAWING TITLE	Borehole and Monitoring Well Location Plan
PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3



Date Sampled:		11/12/2023
Parameter	Table 3 SCS	BH3 SS1 [0 - 0.6m]
Lead	120	217
Parameter	Table 3 SCS	BH3 SS2 [0.8 - 1.4m]
No exceedances		

Date Sampled:		11/13/2023
Parameter	Table 3 SCS	BH2 SS2 [0.8m - 1.4m]
Barium	390	622
Lead	120	165
Zinc	340	2100
Parameter	Table 3 SCS	BH2 SS3 [1.5 - 2.1m]
No exceedances		

LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E
The Metals grouping listed on the drawing includes: Metals, Arsenic, Antimony, Selenium, B-HWS, Cyanide, Hexavalent Chromium, and Mercury

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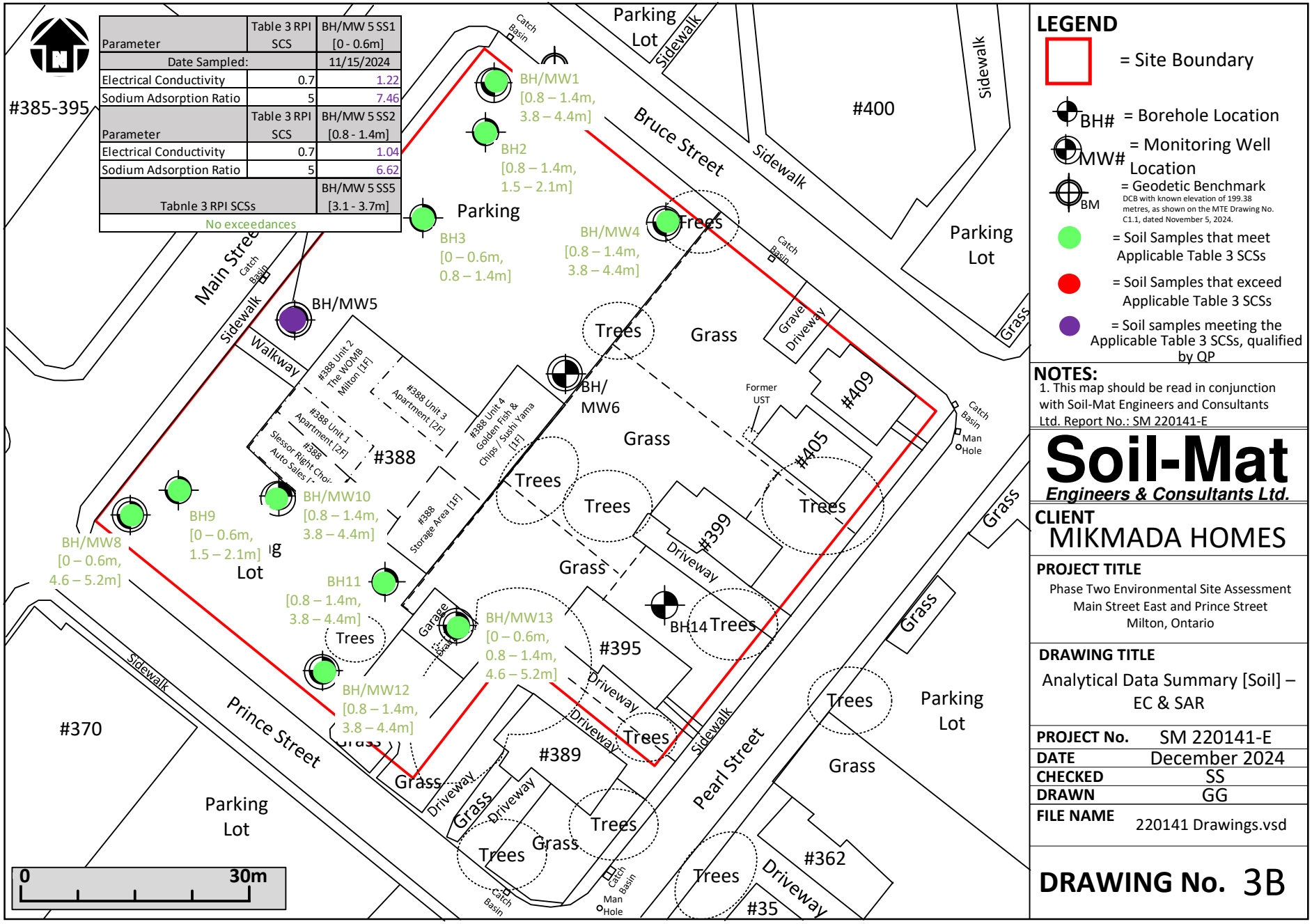
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – Metals including Hydrides and ORPs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3A



Parameter	Table 3 RPI SCS	BH/MW 5 SS1 [0 - 0.6m]
Date Sampled:		11/15/2024
Electrical Conductivity	0.7	1.22
Sodium Adsorption Ratio	5	7.46
Parameter	Table 3 RPI SCS	BH/MW 5 SS2 [0.8 - 1.4m]
Electrical Conductivity	0.7	1.04
Sodium Adsorption Ratio	5	6.62
Tabnle 3 RPI SCSs		BH/MW 5 SS5 [3.1 - 3.7m]
No exceedances		

LEGEND

= Site Boundary

BH# = Borehole Location

MW# = Monitoring Well Location

BM = Geodetic Benchmark
DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.

= Soil Samples that meet Applicable Table 3 SCSs

= Soil Samples that exceed Applicable Table 3 SCSs

= Soil samples meeting the Applicable Table 3 SCSs, qualified by QP

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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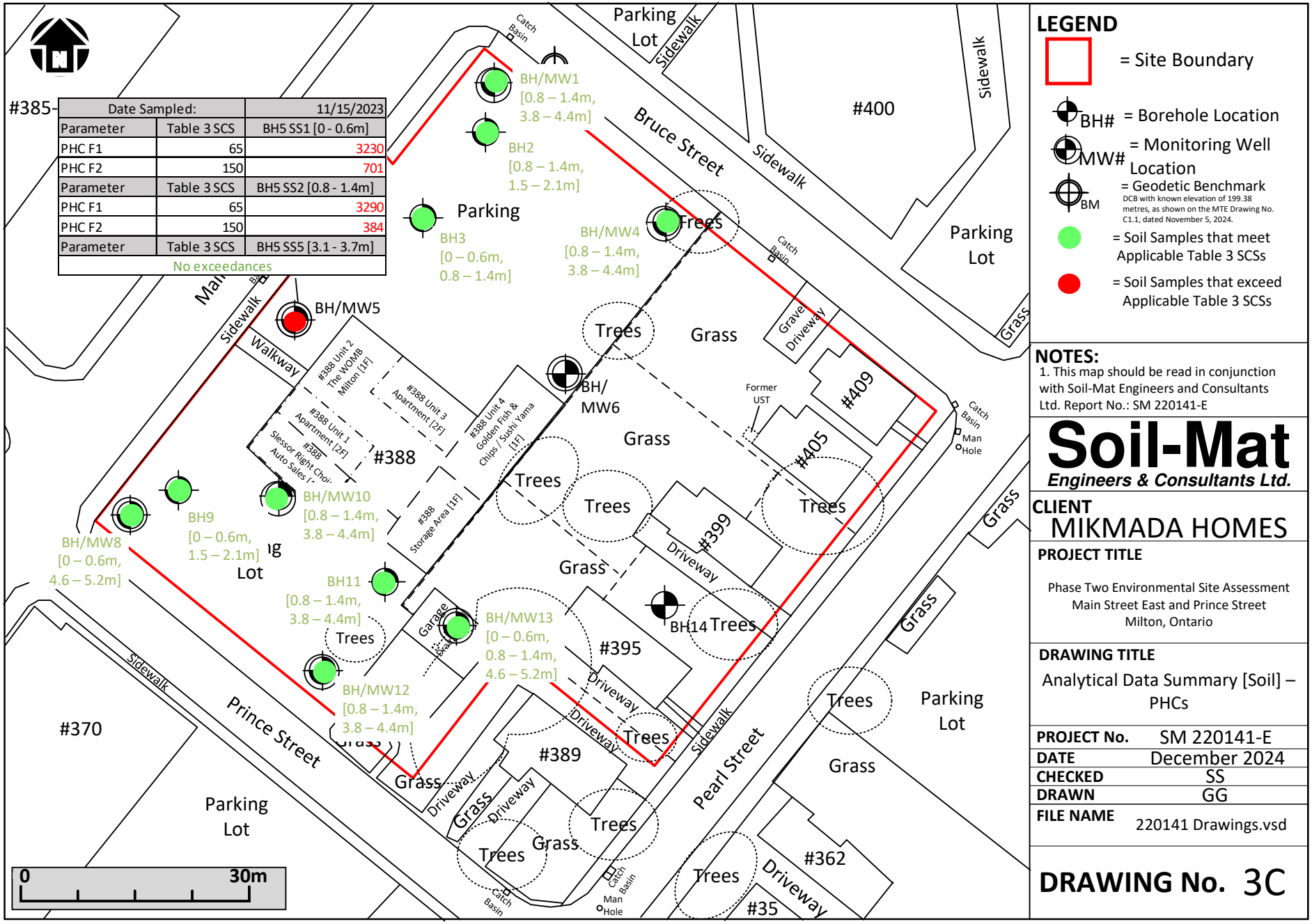
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – EC & SAR

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3B



LEGEND

= Site Boundary

BH# = Borehole Location

MW# = Monitoring Well Location

BM = Geodetic Benchmark
DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.

= Soil Samples that meet Applicable Table 3 SCSs

= Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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PROJECT TITLE

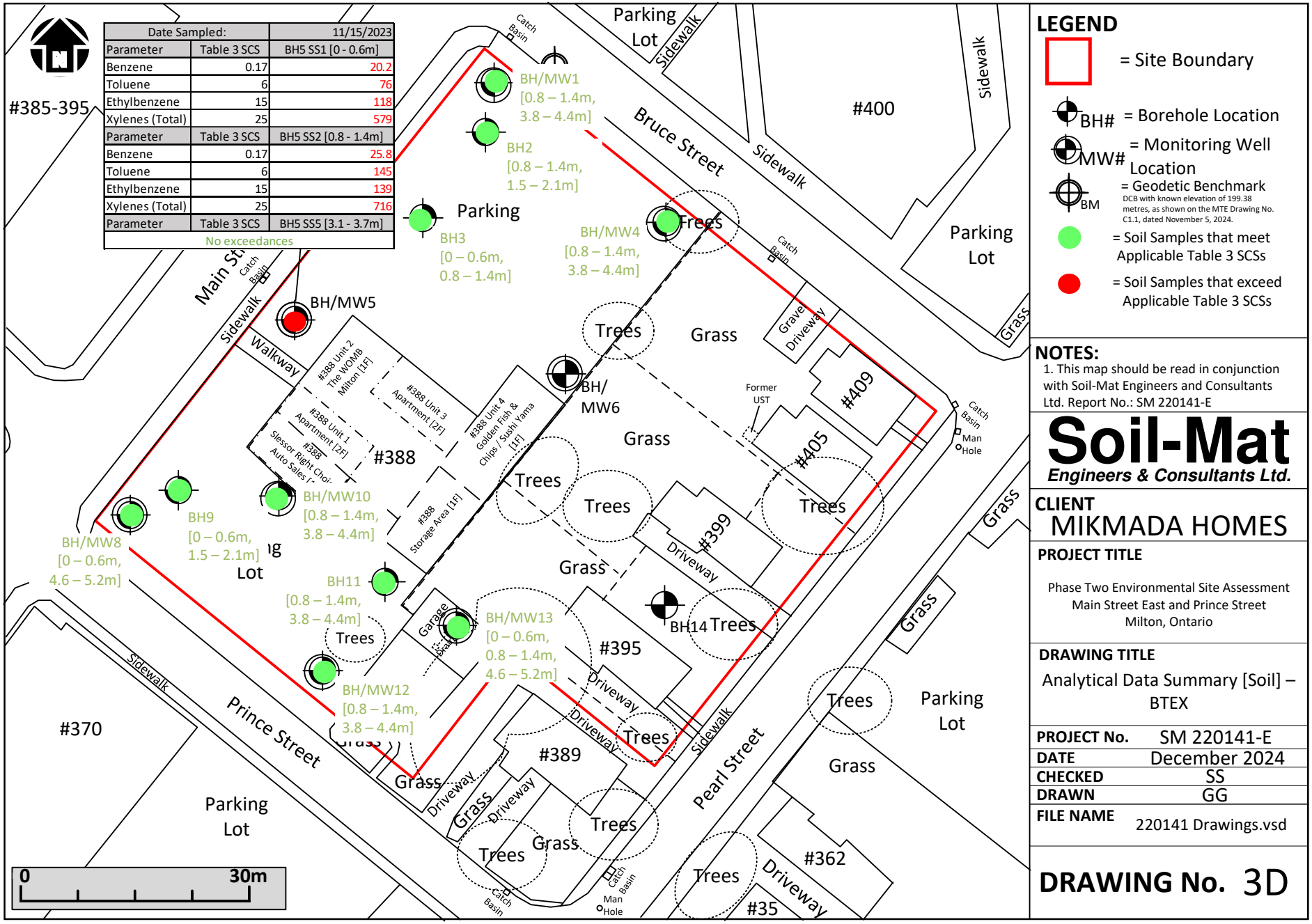
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE

Analytical Data Summary [Soil] – PHCs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3C



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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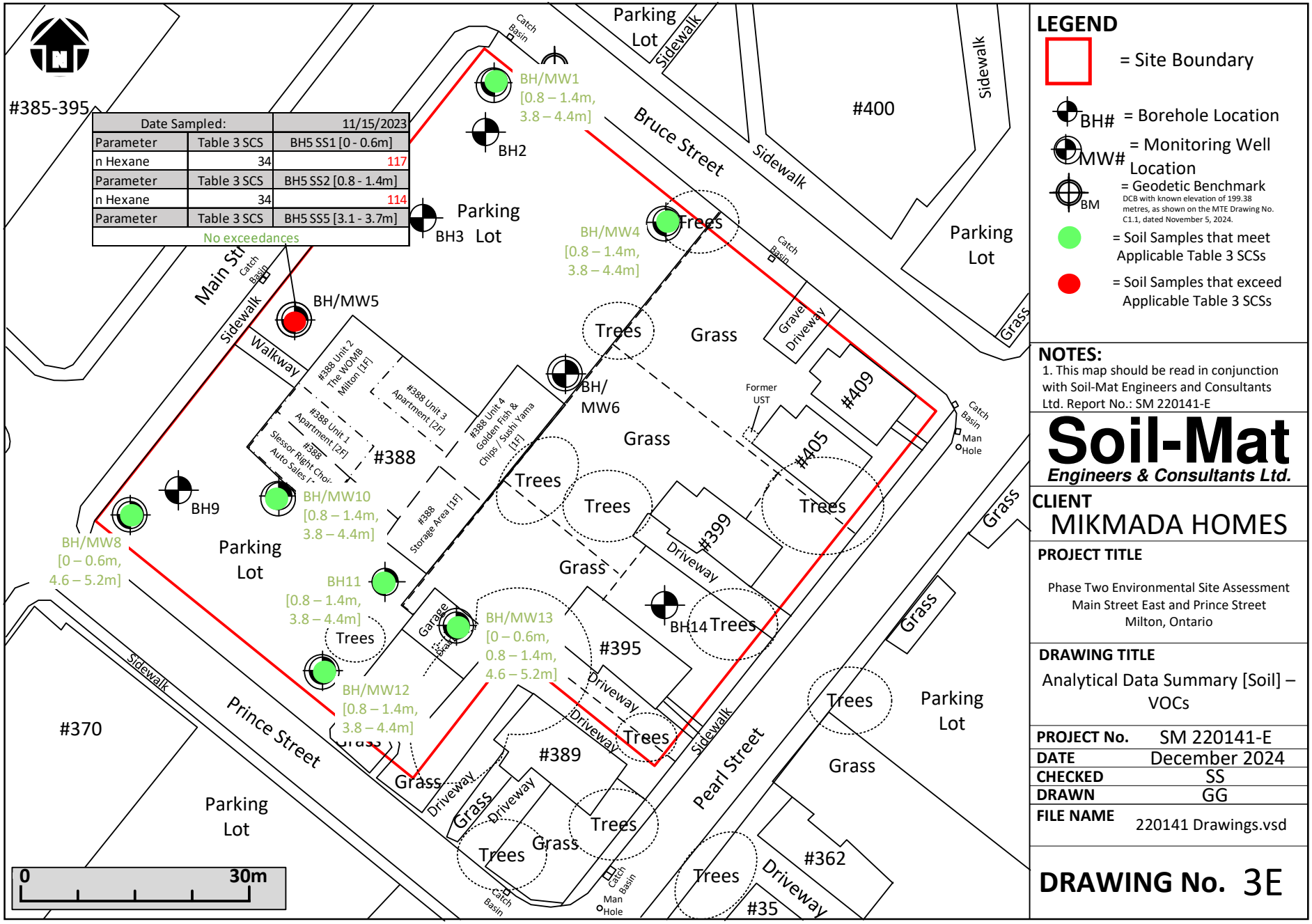
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – BTEX

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3D



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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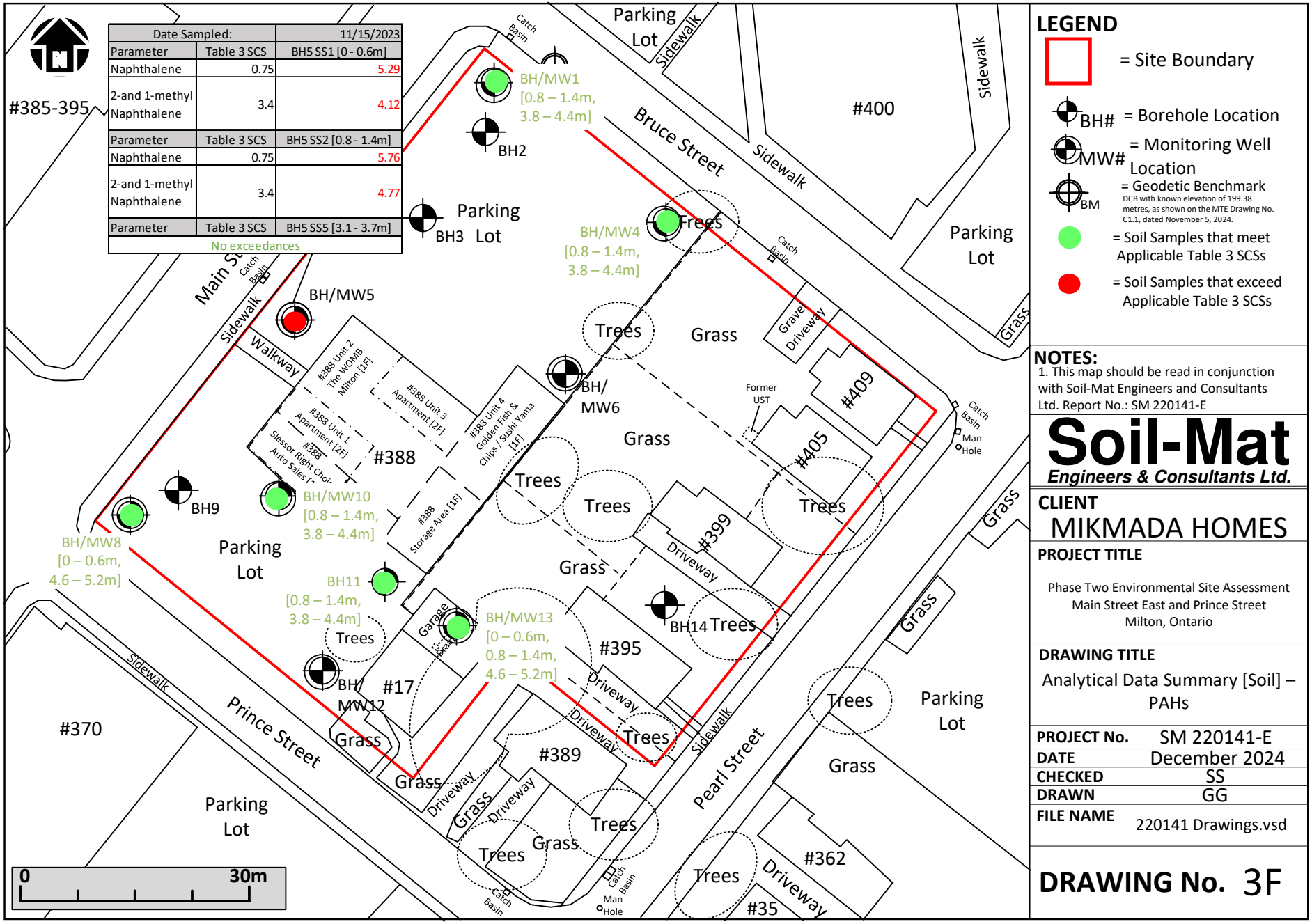
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – VOCs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3E



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:
1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

Soil-Mat
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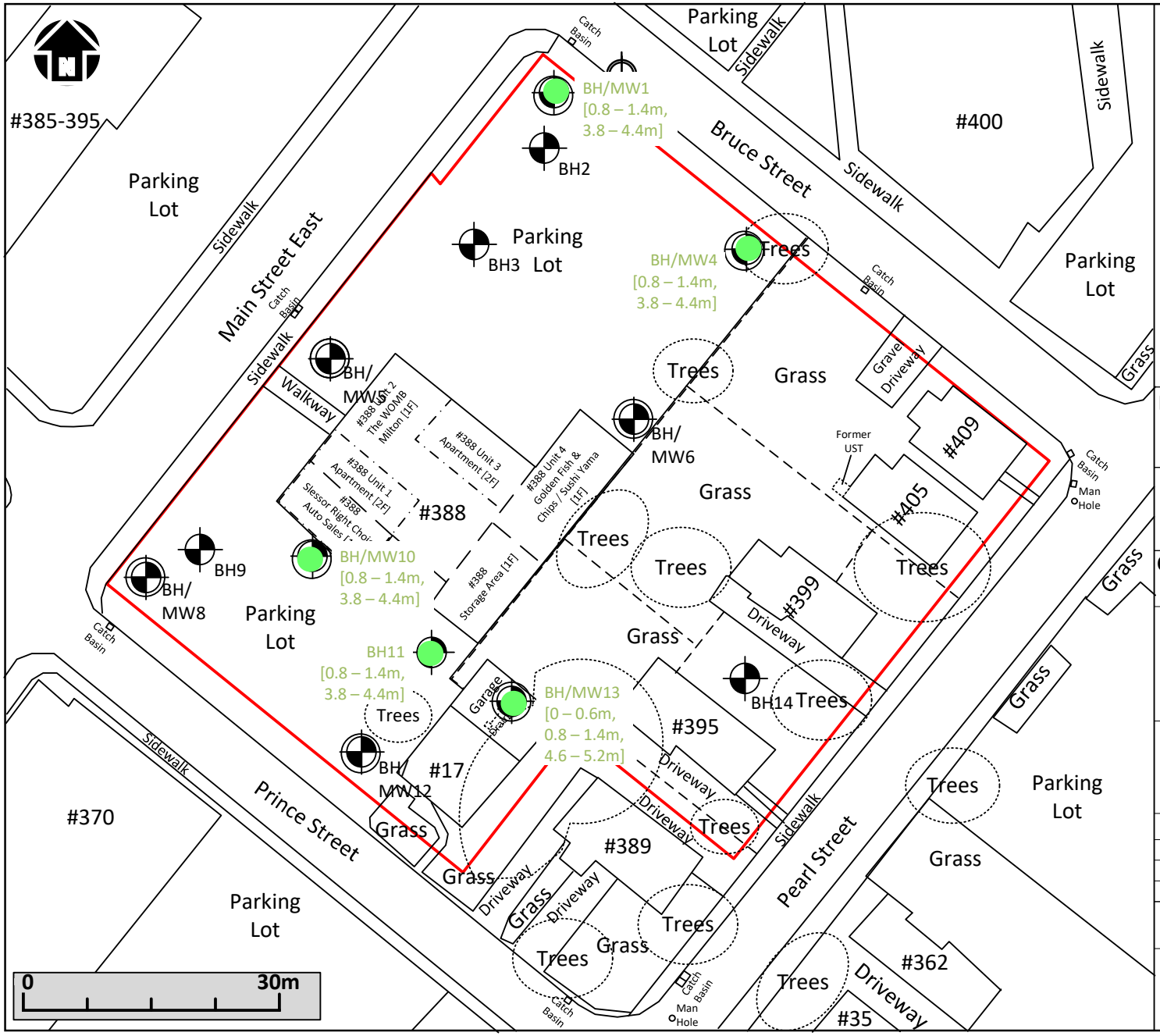
CLIENT
MIKMADA HOMES

PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – PAHs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3F



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

Soil-Mat
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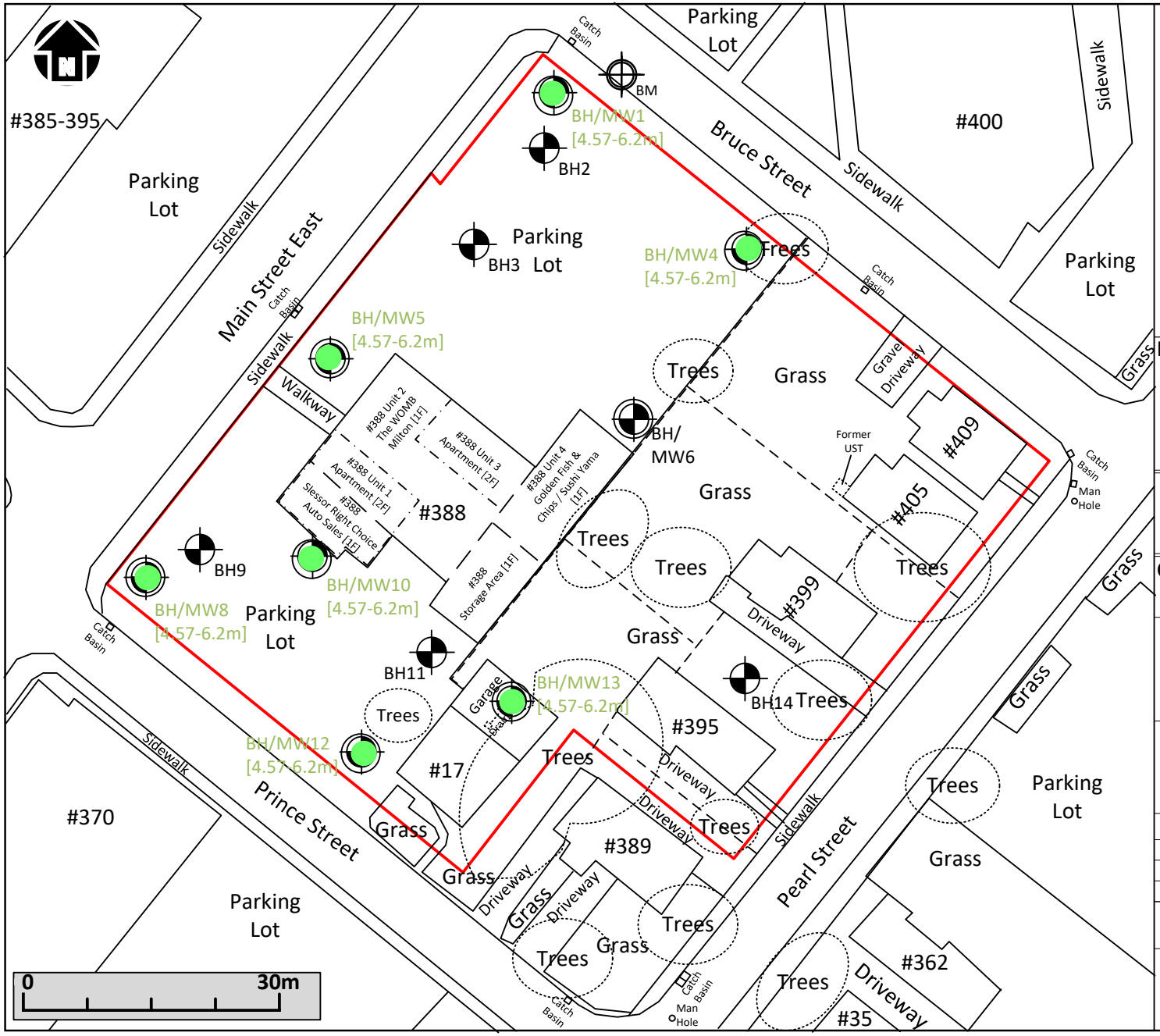
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary [Soil] – PCBs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 3G



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

The Metals grouping listed on the drawing includes: Metals, Arsenic, Antimony, Selenium, B-HWS, Cyanide, Hexavalent Chromium, Mercury, Sodium, and Chloride

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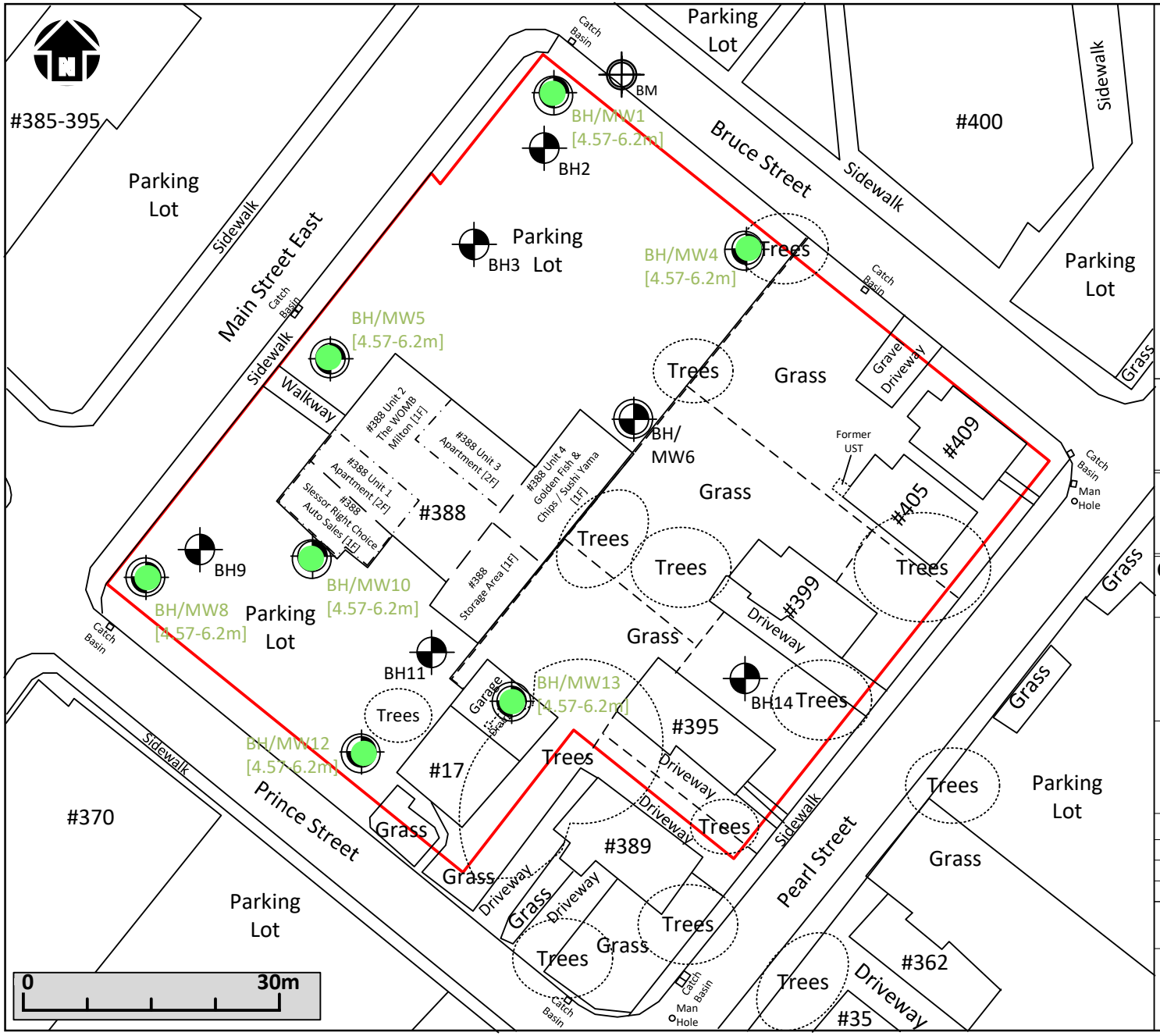
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – Metals including Hydrides and ORPs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4A



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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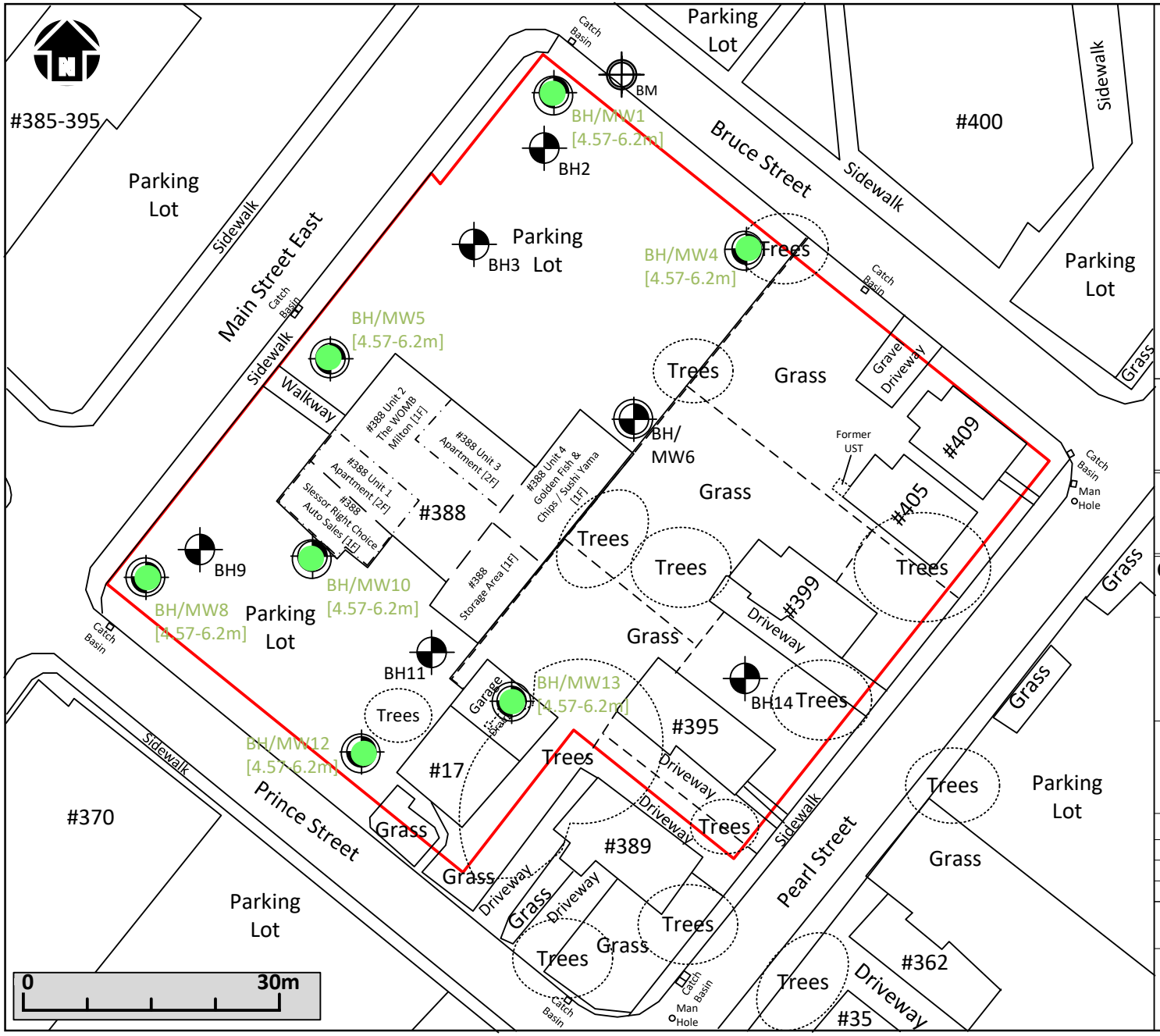
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – PHCs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4B



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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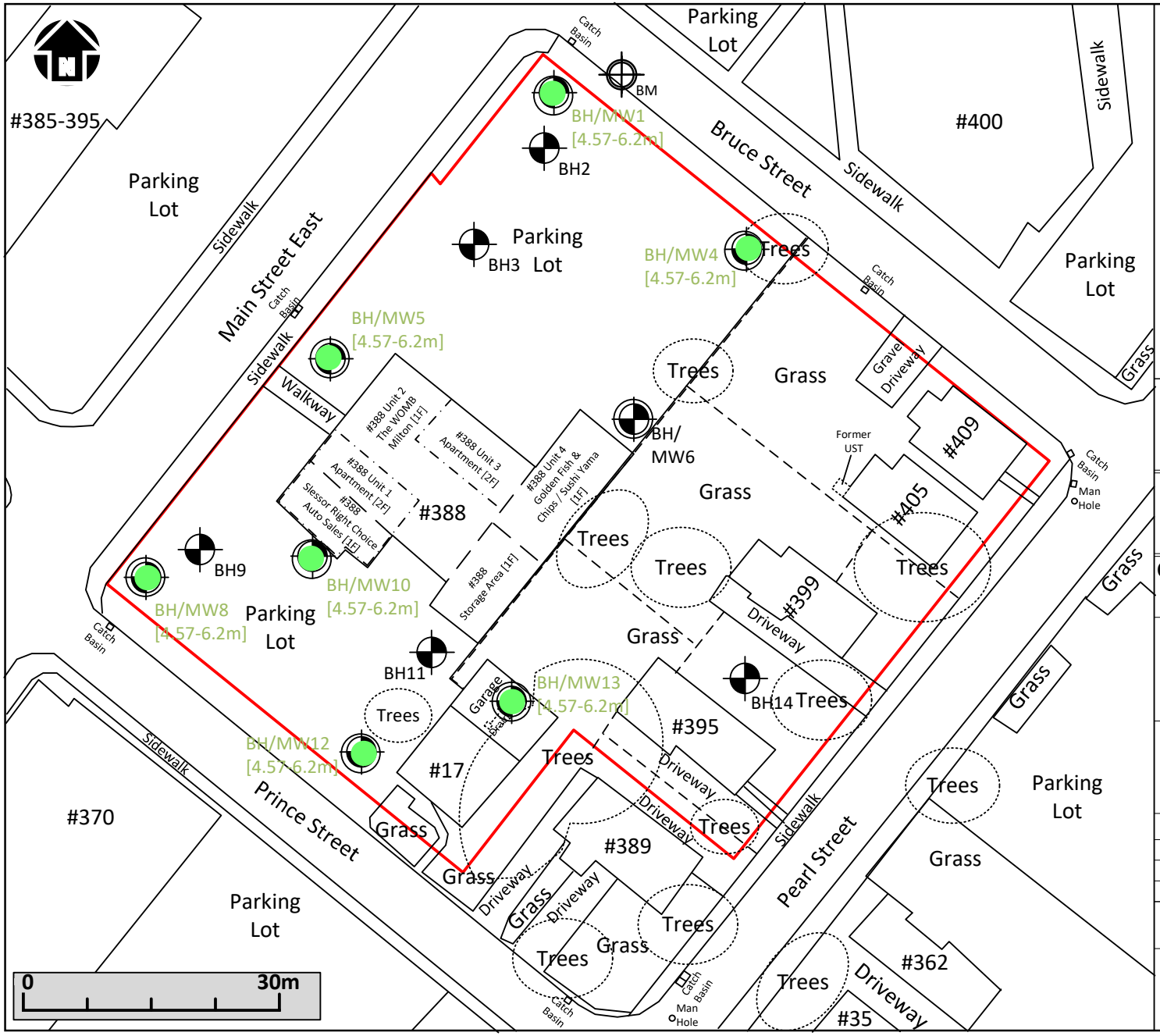
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – BTEX

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4C



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

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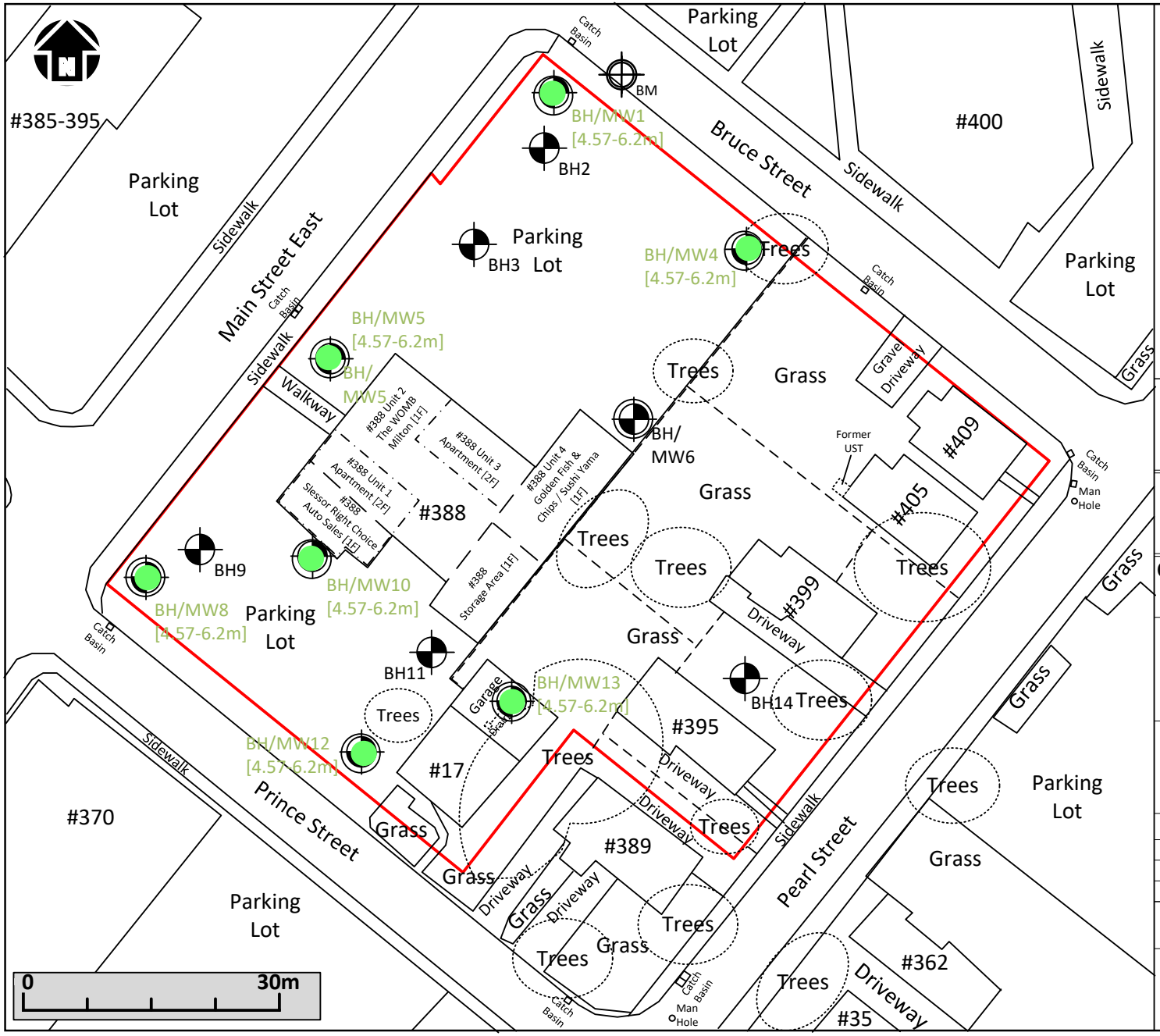
PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – VOCs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4D



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark
  DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

Soil-Mat
Engineers & Consultants Ltd.

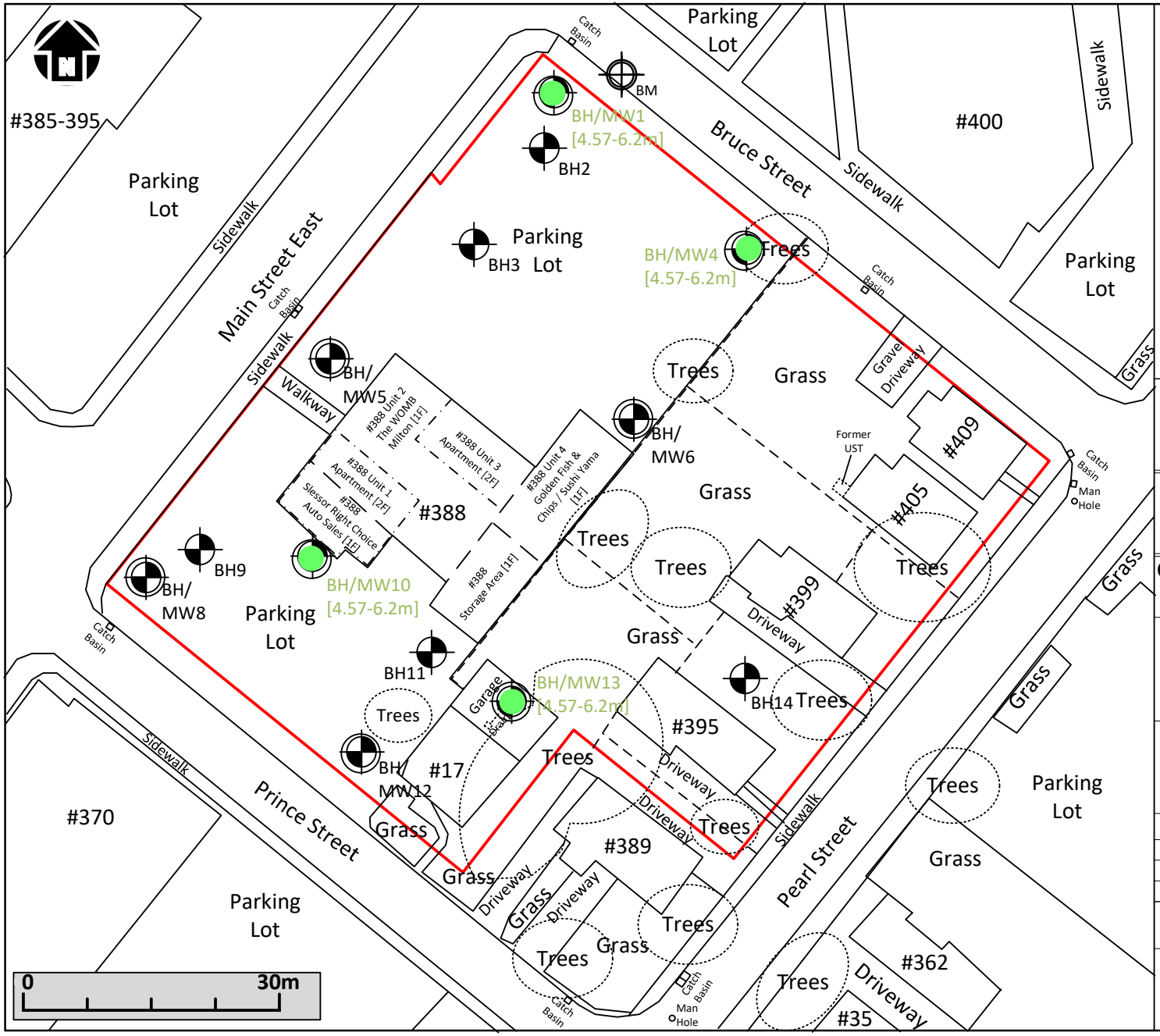
CLIENT
MIKMADA HOMES

PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – PAHs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4E



LEGEND

- = Site Boundary
- BH# = Borehole Location
- MW# = Monitoring Well Location
- BM = Geodetic Benchmark DCB with known elevation of 199.38 metres, as shown on the MTE Drawing No. C1.1, dated November 5, 2024.
- = Soil Samples that meet Applicable Table 3 SCSs
- = Soil Samples that exceed Applicable Table 3 SCSs

NOTES:

1. This map should be read in conjunction with Soil-Mat Engineers and Consultants Ltd. Report No.: SM 220141-E

Soil-Mat
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CLIENT
MIKMADA HOMES

PROJECT TITLE
Phase Two Environmental Site Assessment
Main Street East and Prince Street
Milton, Ontario

DRAWING TITLE
Analytical Data Summary
[Groundwater] – PCBs

PROJECT No.	SM 220141-E
DATE	December 2024
CHECKED	SS
DRAWN	GG
FILE NAME	220141 Drawings.vsd

DRAWING No. 4F

Log of Borehole No. 1

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818873
E: 590643

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	199.72	Ground Surface							
		Pavement Structure Approximately 100 millimetres of asphaltic concrete overlaying 150 millimetres of compact granular base.							
		Silty Clay/Clayey Silt Fill Grey to brown, occasional to frequent organic staining and inclusions, trace to some sand and gravel, firm.	SS	1	4,2,2,2	4			
			SS	2	2,2,3,5	5			
			SS	3	5,8,10,14	18		>4.5	
	196.93		SS	4	4,9,13,20	22		>4.5	
		Sandy Clayey Silt Reddish brown, trace to some gravel, very stiff to hard.	SS	5	8,17,26,32	43		>4.5	
	195.60								
		Transitions to grey in colour.	SS	6	6,8,12,15	20		>4.5	
			SS	7	10,17,26,34	43		>4.5	
	191.70		SS	8	7,27,50/5"	100		>4.5	
		End of Borehole							

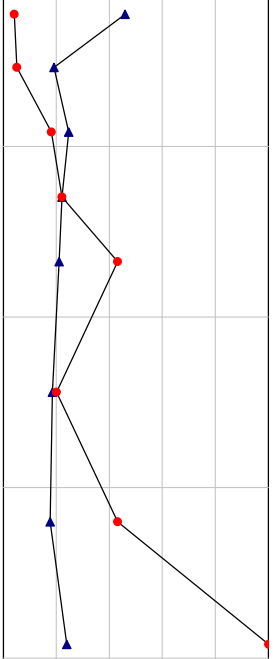
NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 14, 2024 to termination at a depth of 8.0 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

4. A monitoring well was installed. The following free groundwater level readings have been measured:
November 27, 2024 - 3.38 metres



Drill Method: Hollow Stem Augers
Drill Date: November 14,2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
www.soil-mat.ca E: info@soil-mat.ca

Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 1 of 1

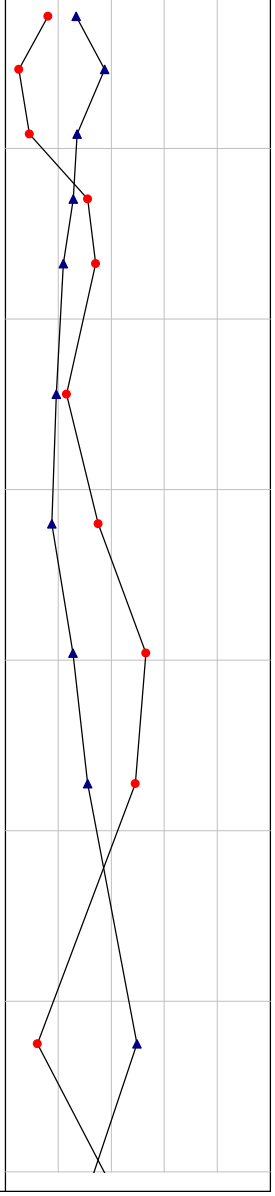
Log of Borehole No. 2

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818867
E: 590641

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	199.66	Ground Surface								
0 / 0	199.40	**Pavement Structure** Approximately 100 millimetres of asphaltic concrete overlaying approximately 150 millimetres of compact granular base.		SS	1	7,8,8,10	16			
				SS	2	2,3,2,4	5			
6 / 2	197.70	**Silty Clay/Clayey Silt Fill** Brown, trace to some sand and gravel with occasional sandy and gravelly seams, moderate to frequent organic inclusions, hard to firm.		SS	3	4,4,5,10	9		>4.5	
				SS	4	7,10,21,23	31		>4.5	
10 / 3				SS	5	8,13,21,28	34		>4.5	
13 / 4	195.50	**Sandy Clayey Silt** Reddish brown, trace to some gravel, very stiff to hard. Transitions to grey in colour.								
16 / 5				SS	6	4,10,13,13	23		>4.5	
20 / 6				SS	7	6,11,24,2	35		>4.5	
23 / 7										
26 / 8				SS	8	31,25,28,24	53		>4.5	
30 / 9				SS	9	10,19,30,34	49		>4.5	
33 / 10										
36 / 11										
39 / 12										
41 /				SS	10	5,5,7,10	12		2.5	
43 / 13										
46 / 14										

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Hollow Stem Augers
Drill Date: November 13, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
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Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 1 of 2

Log of Borehole No. 2

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818867
E: 590641

Depth	Elevation (m)	Symbol	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
15					SS	11	20,31,32,35	63		>4.5	
18	181.40				SS	12	50/0"	100			
			End of Borehole Auger refusal on inferred bedrock.								

Moisture Content w%: 10 20 30 40

Standard Penetration Test blows/300mm: 20 40 60 80

NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 13, 2024 to termination on inferred bedrock at a depth of 18.3 metres.

2. Borehole was recorded as open to a depth of 14.6 metres and 'wet' at depth of 14.0 metres upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Hollow Stem Augers
Drill Date: November 13, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
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Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 2 of 2

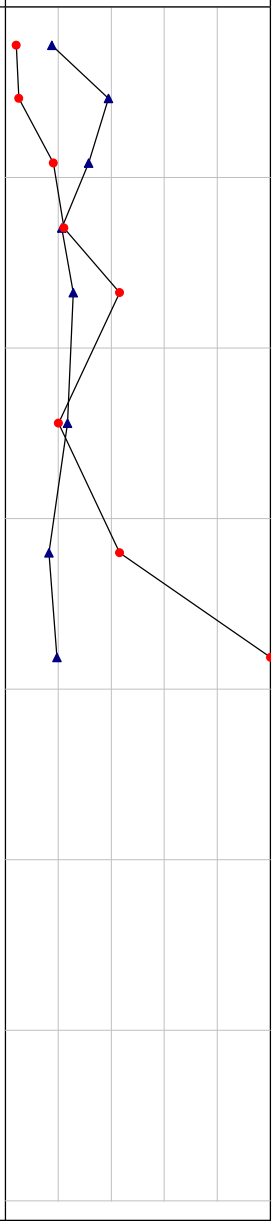
Log of Borehole No. 3

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818853
E: 590631

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	199.83	Ground Surface								
0 / 0		**Pavement Structure** Approximately 125 millimetres of asphaltic concrete.								
4 / 1	198.40	**Silty Clay/Clayey Silt Fill** Brown, trace to some sand and gravel with occasional sandy and gravelly seams, occasional cobbles, hard to firm.		SS	1	4,9,36,17	45			
				SS	2	2,2,3,7	5			
7 / 2				SS	3	4,8,12,17	20		>4.5	
10 / 3				SS	4	6,13,17,22	30		>4.5	
		Sandy Clayey Silt Reddish brown, trace to some gravel, very stiff to hard.		SS	5	6,13,24,31	37		>4.5	
13 / 4	195.70	Transitions to grey in colour.								
16 / 5				SS	6	5,7,12,12	19		>4.5	
20 / 6				SS	7	9,13,14,19	27		>4.5	
23 / 7										
25 / 7.6	192.10			SS	8	50/5"	100		>4.5	
26 / 8		End of Borehole								

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 12, 2024 to termination at a depth of 7.8 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Hollow Stem Augers
Drill Date: November 14,2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
www.soil-mat.ca E: info@soil-mat.ca

Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 1 of 1

Log of Borehole No. 4

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818858
E: 590662

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	199.93	Ground Surface								
0 / 0	199.60	**Pavement Structure** Approximately 30 millimetres of asphaltic concrete overlaying 300 millimetres of compact granular base.								
1 / 1				SS	1	14,7,3,5	10			
2				SS	2	4,3,6,8	9			
3	198.20	**Silty Clay/Clayey Silt Fill** Grey, occasional to frequent organic staining and inclusions, trace to some sand and gravel, stiff.		SS	3	4,5,10,13	15		>4.5	
4 / 2				SS	4	4,9,10,13	19		>4.5	
5		**Sandy Clayey Silt** Reddish brown, trace to some gravel, occasional cobbles in the upper levels, very stiff to hard.		SS	5	11,20,24,30	44			
6 / 3										
7	195.80	Transitions to grey in colour.								
8 / 4				SS	6	5,6,9,10	15		>4.5	
9										
10 / 5				SS	7	5,7,8,16	15		>4.5	
11										
12 / 6				SS	8	11,21,29,20	50		>4.5	
13	191.70	End of Borehole								
14 / 7		NOTES: 1. Borehole was advanced using hollow stem auger equipment on November 14, 2024 to termination at a depth of 8.2 metres. 2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903. 3. Soil samples will be discarded after 3 months unless otherwise directed by our client. 4. A monitoring well was installed. The following free groundwater level readings have been measured: November 27, 2024 - 3.44 metres								
15										
16 / 8										
17										
18 / 9										
19										
20 / 10										
21										
22 / 11										
23										
24 / 12										
25										
26 / 13										
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36 / 18										
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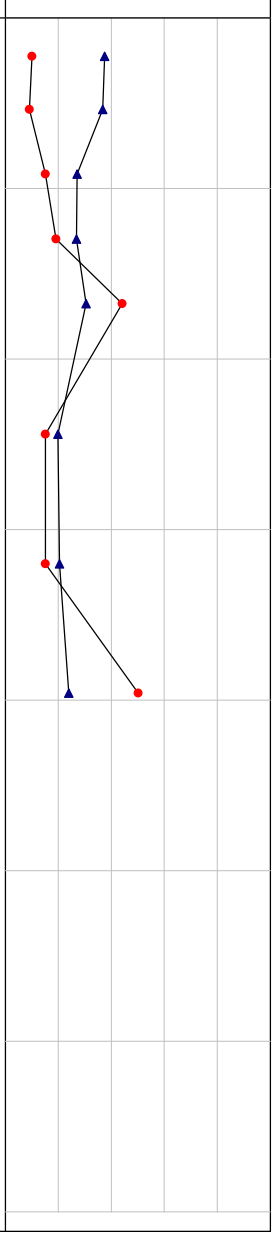
38 / 19										
39										
40 / 20										
41										
42 / 21										
43										
44 / 22										
45										
46 / 23										



Drill Method: Hollow Stem Augers
Drill Date: November 14, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
www.soil-mat.ca E: info@soil-mat.ca

Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 1 of 1

Log of Borehole No. 5

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818836
E: 590614

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	199.56	Ground Surface								
0 / 0	199.23	**Pavement Structure** Approximately 100 millimetres of asphaltic concrete overlaying 175 millimetres of compact granular base.								
3 / 1	198.10	**Silty Clay/Clayey Silt Fill** Dark grey to black, distinct hydrocarbon odour, trace sand and gravel, firm to stiff.		SS	1	8,4,3,5	7			
				SS	2	4,3,5,6	8			
6 / 2				SS	3	4,8,9,12	17		>4.5	
9 / 3		**Sandy Clayey Silt** Reddish brown, trace to some gravel, occasional cobbles, very stiff to hard.		SS	4	4,10,11,15	21		>4.5	
				SS	5	5,16,20,22	36		>4.5	
13 / 4	195.40	Transitions to grey in colour.								
16 / 5				SS	6	7,8,8,13	16		>4.5	
19 / 6				SS	7	4,11,14,14	25		>4.5	
23 / 7										
26 / 8	191.40	End of Borehole		SS	8	17,26,33,25	59		>4.5	

NOTES:

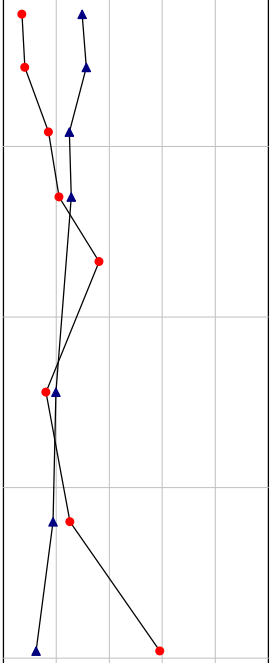
1. Borehole was advanced using hollow stem auger equipment on November 15, 2024 to termination at a depth of 8.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

4. A monitoring well was installed. The following free groundwater level readings have been measured:
November 27, 2024 - 5.46 metres

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Hollow Stem Augers
Drill Date: November 15, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
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Sheet: 1 of 1

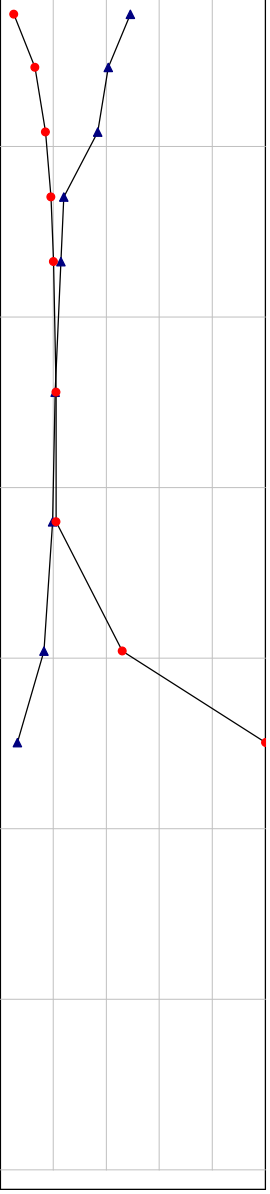
Log of Borehole No. 6

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818831
E: 590650

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	200.02	Ground Surface							
0 / 0		**Pavement Structure** Approximately 100 millimetres of asphaltic concrete.							
3 / 1	198.94	**Silty Clay/Clayey Silt Fill** Greyish brown, trace to some sand and gravel, occasional to moderate organic inclusions and staining, firm to stiff.	SS	1	2,2,3,4	5			
			SS	2	2,5,8,11	13		>4.5	
6 / 2			SS	3	4,7,10,14	17		>4.5	
			SS	4	7,7,12,14	19		>4.5	
10 / 3		**Sandy Clayey Silt** Brown to reddish brown, trace to some gravel, reworked appearance in the upper levels, very stiff to hard.	SS	5	6,10,10,21	20		>4.5	
13 / 4	195.84	Transitions to grey in colour.							
16 / 5			SS	6	4,9,12,11	21		>4.5	
20 / 6			SS	7	5,9,12,14	21		>4.5	
23 / 7									
26 / 8			SS	8	15,22,24,31	46		>4.5	
29 / 9			SS	9	50/5"	100			
			HQ	1					
33 / 10			HQ	2					
36 / 11									
39 / 12			HQ	3					
43 / 13			HQ	4					
46 / 14									

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Hollow Stem Auger
Drill Date: November 13, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 6

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818831
E: 590650

Depth	Elevation (m)	Description	Well Data	SAMPLE Type	SAMPLE Number	SAMPLE Blow Counts	SAMPLE Blows/300mm	SAMPLE Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)	Moisture Content w% (10 20 30 40) / Standard Penetration Test blows/300mm (20 40 60 80)
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	181.20										
62 63 64 65 66 67 68 69 70 71	178.20	**Queenston Shale** Red, with more resistant grey layers, highly weathered in upper levels, becoming more sound with depth, hard.		HQ	5						
				HQ	6						
				HQ	7						
				HQ	8	RQD = 9%					
				HQ	9	RQD = 58%					Compressive Strength = 42.3 MPa Compressive Strength = 48.7 MPa
72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92		End of Borehole NOTES: 1. Borehole was advanced using hollow stem auger equipment on November 13, 2024 to termination at a depth of 9.3 metres. Bedrock was cored to a depth of 21.8 metres. 2. Soil samples will be discarded after 3 months unless otherwise directed by our client. 3. A monitoring well was installed. The following free groundwater level readings have been measured: November 27, 2024 - 6.71 metres										

Drill Method: Hollow Stem Auger
Drill Date: November 13, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 8

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818811
E: 590593

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	199.89	Ground Surface							
0 / 0	199.60	**Pavement Structure** Approximately 150 millimetres of asphaltic concrete overlaying 100 millimetres of compact granular base.							
1 / 0			SS	1	2,2,3,5	5			
2 / 1			SS	2	1,0,2,1	2			
5 / 1	198.20	**Silty Clay/Clayey Silt Fill** Reddish brown, occasional organic inclusions, trace to some sand and gravel, firm to soft.							
6 / 2			SS	3	4,9,13,29	22		>4.5	
8 / 2			SS	4	10,13,11,12	24		>4.5	
10 / 3		**Sandy Clayey Silt** Reddish brown, trace to some gravel, very stiff to hard.	SS	5	7,11,15,15	26		>4.5	
13 / 4	195.70	Transitions to grey in colour.							
15 / 5			SS	6	8,16,17,21	33		>4.5	
20 / 6			SS	7	7,12,15,36	27		>4.5	
26 / 8	191.70		SS	8	34,32,29,45	61		>4.5	
27 / 8		End of Borehole							

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)

NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 11, 2024 to termination at a depth of 8.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

4. A monitoring well was installed. The following free groundwater level readings have been measured:
November 27, 2024 - 4.57 metres

Drill Method: Hollow Stem Augers
Drill Date: November 11, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 9

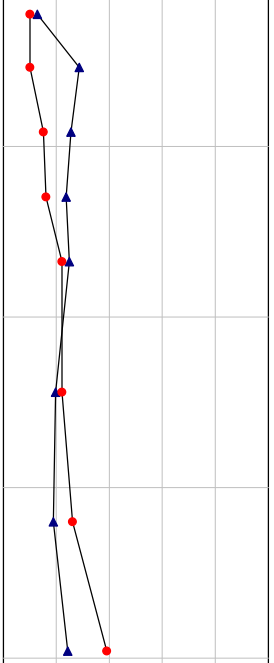
Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818813
E: 590597

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	199.92	Ground Surface								
0 / 0		**Pavement Structure** Approximately 150 millimetres of asphaltic concrete overlaying 100 millimetres of compact granular base.		SS	1	2,3,7,4	10			
3 / 1	199.00			SS	2	5,6,4,4	10			
5 / 1	198.20	**Sand Fill** Reddish brown, trace silt and gravel, occasional concrete debris, compact.		SS	3	4,6,9,11	15		>4.5	
8 / 2		**Silty Clay/Clayey Silt Fill** Brown, trace to some sand and gravel, stiff.		SS	4	5,7,9,26	16		>4.5	
10 / 3				SS	5	5,8,14,17	22		>4.5	
13 / 4	195.80	**Sandy Clayey Silt** Reddish brown, trace to some gravel, very stiff to hard.								
15 / 4		Transitions to grey in colour.		SS	6	5,9,13,13	22		>4.5	
20 / 6				SS	7	8,12,14,26	26		>4.5	
25 / 7										
26 / 8	191.70			SS	8	13,19,20,25	39		>4.5	
27 / 8		End of Borehole								

Moisture Content w% — 10 20 30 40

Standard Penetration Test blows/300mm — 20 40 60 80



NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 11, 2024 to termination at a depth of 8.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Hollow Stem Augers
Drill Date: November 11, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 10

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818814
E: 590597

Depth (ft / m)	Elevation (m)	Description	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	200.00	Ground Surface							
0–3 / 0–1	199.50	**Pavement Structure** Approximately 100 millimetres of asphaltic concrete overlaying 350 millimetres of compact granular base.							
3–6 / 1–2	198.50	**Silty Clay/Clayey Silt Fill** Reddish brown, trace to some sand and gravel, firm.	SS	1	6,4,3,2	7			
			SS	2	2,2,4,4	6			
			SS	3	4,8,9,11	17		>4.5	
6–13 / 2–4		**Sandy Clayey Silt** Reddish brown, trace to some gravel, stiff to hard.	SS	4	4,10,14,17	24		>4.5	
			SS	5	4,7,8,14	15		>4.5	
13 / 4	195.90	Transitions to grey in colour.							
13–20 / 4–6			SS	6	1,6,7,9	13		3.0	
20–26 / 6–8			SS	7	2,4,7,8	11		3.0	
26 / 8	191.80	End of Borehole	SS	8	12,19,24,28	43		>4.5	

NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 12, 2024 to termination at a depth of 8.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

4. A monitoring well was installed. The following free groundwater level readings have been measured:
November 27, 2024 - 5.07 metres

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)

Drill Method: Hollow Stem Augers
Drill Date: November 12, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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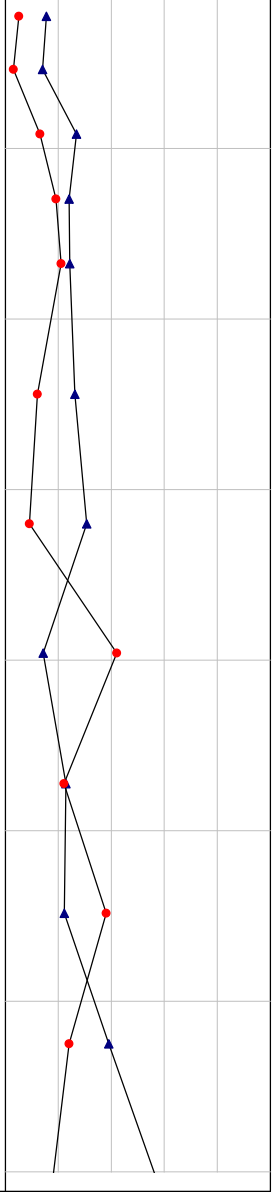
Log of Borehole No. 11

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818805
E: 590627

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
	199.92	Ground Surface								
0 / 0	199.60	**Pavement Structure** Approximately 50 millimetres of asphaltic concrete overlaying approximately 300 millimetres of compact granular base.		SS	1	4,3,2,1	5			
				SS	2	2,1,2,3	3			
1 / 1	198.10	**Silty Clay/Clayey Silt Fill** Brown, trace to some sand and gravel with occasional sandy and gravelly seams, soft to stiff.		SS	3	3,5,8,10	13		>4.5	
2 / 2				SS	4	5,9,10,13	19		>4.5	
3 / 3		**Sandy Clayey Silt** Reddish brown, trace to some gravel, stiff to very stiff.		SS	5	5,8,13,11	21		>4.5	
4 / 4	195.80	Transitions to grey in colour.								
5 / 5				SS	6	3,5,7,8	12		4.0	
6 / 6	193.70	**Sand and Gravel** Grey, trace to some silt and clay, occasional cobbles, compact to dense.		SS	7	3,4,5,4	9			
7 / 7				SS	8	22,21,21,22	42			
8 / 8				SS	9	8,10,12,14	22		>4.5	
9 / 9	190.50	**Sandy Clayey Silt** Grey to reddish grey, trace to some gravel, very stiff to hard.		SS	10	27,19,19,29	38		>4.5	
10 / 10				SS	11	10,12,12,12	24		3.5	
11 / 11				SS	12	7,7,11,12	18		3.0	
12 / 12										
13 / 13										
14 / 14										

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Hollow Stem Augers
Drill Date: November 12, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 11

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818805
E: 590627

Depth	Elevation (m)	Symbol	Description	Well Data	SAMPLE Type	SAMPLE Number	SAMPLE Blow Counts	SAMPLE Blows/300mm	SAMPLE Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)	Moisture Content w% (10 20 30 40) / Standard Penetration Test blows/300mm (20 40 60 80)
						12		18				
15	184.40				SS	13	46,50/3"	100		>4.5		
16			End of Borehole NOTES: 1. Borehole was advanced using hollow stem auger equipment on November 12, 2024 to termination at a depth of 15.5 metres. 2. Borehole was recorded as open to a depth of 14.6 metres and 'wet' at depth of 7.9 metres upon completion and backfilled as per Ontario Regulation 903. 3. Soil samples will be discarded after 3 months unless otherwise directed by our client.									
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												

Drill Method: Hollow Stem Augers
Drill Date: November 12, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 12

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 388 Main Street East, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818792
E: 590614

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	199.80	Ground Surface								
		Pavement Structure Approximately 40 millimetres of asphaltic concrete overlaying 125 millimetres of compact granular base.		SS	1	2,2,3,5	5			
3 / 1	198.60	**Silty Clay/Clayey Silt Fill** Brown, trace to some sand and gravel, stiff.		SS	2	3,5,6,10	11		>4.5	
6 / 2				SS	3	5,6,8,11	14		>4.5	
9 / 3		**Sandy Clayey Silt** Reddish brown, trace to some gravel, very stiff to hard.		SS	4	5,9,11,14	20		>4.5	
12 / 4	195.70			SS	5	5,9,13,19	22		>4.5	
		Transitions to grey in colour.		SS	6	5,8,11,13	19		>4.5	
21 / 6				SS	7	7,10,12,15	22		>4.5	
24 / 7										
26 / 8	191.60			SS	8	11,15,18,20	33		>4.5	
		End of Borehole								

Moisture Content w% (10 20 30 40)

Standard Penetration Test blows/300mm (20 40 60 80)

NOTES:

1. Borehole was advanced using hollow stem auger equipment on November 11, 2024 to termination at a depth of 8.2 metres.

2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903.

3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

4. A monitoring well was installed. The following free groundwater level readings have been measured:
November 27, 2024 - 3.37 metres

Drill Method: Hollow Stem Augers
Drill Date: November 12, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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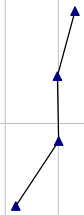
Log of Borehole No. 13

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 17 Prince Street, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818792
E: 590614

Depth (ft / m)	Elevation (m)	Symbol	Description	Well Data	SAMPLE Type	SAMPLE Number	SAMPLE Blow Counts	SAMPLE Blows/300mm	SAMPLE Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 ft / 0 m	199.88		Ground Surface								
0 ft	199.60		**Concrete Slab Structure** Approximately 150 millimetres of concrete overlaying 150 millimetres of compact granular base.								
1 ft / 0 m			**Silty Clay/Clayey Silt Fill** Brown to grey, trace to some sand and gravel, occasional organic inclusions.		SS	1					
2 ft / 1 m					SS	2					
3 ft	197.40		**Sandy Clayey Silt** Reddish brown, trace to some gravel.		SS	3					
10 ft / 3 m	196.50		End of Borehole		SS	4					
13 ft / 4 m			NOTES: 1. Borehole was advanced using solid stem auger equipment on November 15, 2024 to termination at a depth of 3.4 metres. 2. Borehole was recorded as open and 'dry' upon completion and backfilled as per Ontario Regulation 903. 3. Soil samples will be discarded after 3 months unless otherwise directed by our client.								
20 ft / 6 m											
23 ft / 7 m											
26 ft / 8 m											
30 ft / 9 m											
33 ft / 10 m											
36 ft / 11 m											
39 ft / 12 m											
43 ft / 13 m											
46 ft / 14 m											

Moisture Content w% (10 20 30 40)
Standard Penetration Test blows/300mm (20 40 60 80)



Drill Method: Solid Stem Augers
Drill Date: November 15, 2024
Hole Size: 100 millimetres
Drilling Contractor: Sonic Soil Sampling Inc.

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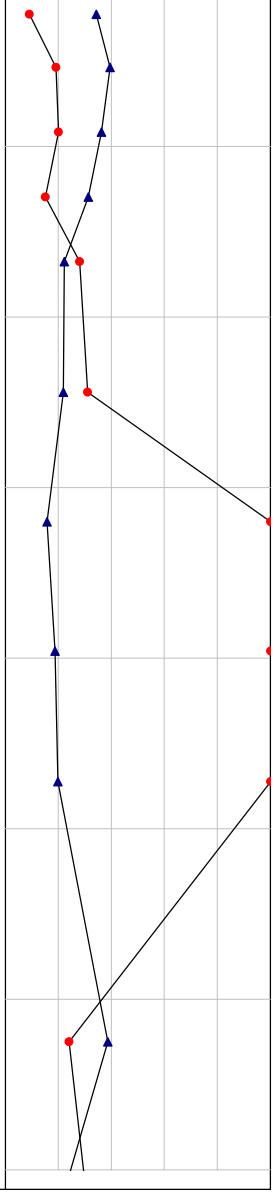
Sheet: 1 of 1

Log of Borehole No. 14

Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 395 Pearl Street, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818801
E: 590664

Depth (ft / m)	Elevation (m)	Description	Well Data	SAMPLE Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
0 / 0	199.48	Ground Surface								
0 / 0	199.20	**Topsoil** Approximately 250 millimetres of topsoil.								
1 / 0		**Sandy Clayey Silt** Brown to reddish brown, trace to some gravel, reworked appearance in the upper levels, stiff to hard.		SS	1	4,4,5,5	9			
2 / 1				SS	2	6,7,12,13	19		>4.5	
3 / 1				SS	3	6,8,12,15	20		>4.5	
4 / 2				SS	4	9,5,10,14	15		>4.5	
5 / 2				SS	5	5,12,16,23	28		>4.5	
13 / 4	195.30	Transitions to grey in colour.								
16 / 5				SS	6	11,12,19,20	31		>4.5	
23 / 7				SS	7	12,50/3"	100		>4.5	
26 / 8				SS	8	23,26,50/4"	100		>4.5	
31 / 9				SS	9	22,40,50/5"	100		>4.5	
41 / 12				SS	10	11,12,12,13	24		>4.5	



Drill Method: Mud Rotary
Drill Date: November 14, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

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Log of Borehole No. 14

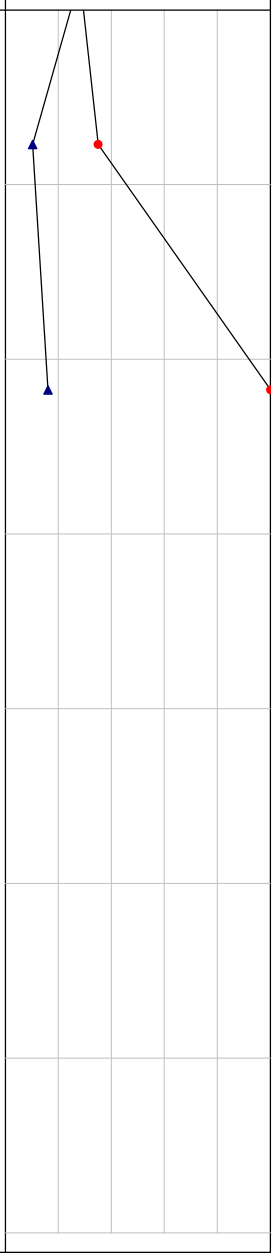
Project No: SM 220141-EG
Project: Proposed Residential Building
Location: 395 Pearl Street, Milton
Client: Mikmada Homes

Project Manager: Kyle Richardson, P. Eng.
Borehole Location: See Drawing No. 1
UTM Coordinates - N: 4818801
E: 590664

Depth	Elevation (m)	Symbol	Description	Well Data	SAMPLE Type	SAMPLE Number	SAMPLE Blow Counts	SAMPLE Blows/300mm	SAMPLE Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
15											
16					SS	11	14,13,22,23	35		>4.5	
17											
18											
	181.00				SS	12	48,50/3"	100			
19			End of Borehole Auger refusal on inferred bedrock.								
20			NOTES: 1. Borehole was advanced using mud rotary equipment on November 14, 2024 to termination on inferred bedrock at a depth of 18.5 metres. 2. Soil samples will be discarded after 3 months unless otherwise directed by our client.								
21											
22											
23											
24											
25											
26											
27											
28											

Moisture Content w%
10 20 30 40

Standard Penetration Test blows/300mm
20 40 60 80



Drill Method: Mud Rotary
Drill Date: November 14, 2024
Hole Size: 200 millimetres
Drilling Contractor: Davis Drilling Ltd.

Soil-Mat Engineers & Consultants Ltd.
401 Grays Road, Hamilton, Ontario, L8E 2Z3
T: 905.318.7440, TF: 800.243.1922, F: 905.318.7455
www.soil-mat.ca E: info@soil-mat.ca

Datum: Geodetic
Field Logged by: BS
Checked by: KR
Sheet: 2 of 2

Appendix ‘B’

1. AGAT Certificate of Analysis – Soil

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Bennett Sabourin

PROJECT: 220141

AGAT WORK ORDER: 24T221637

SOIL ANALYSIS REVIEWED BY: Sukhwinder Randhawa, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Nov 21, 2024

PAGES (INCLUDING COVER): 21

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH8 SS1	BH8 SS7	BH9 SS1	BH9 SS3	BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11	2024-11-11	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	Unit	G / S	RDL	6327296	6327303	6327304	6327307	6327308	6327311	6327312	6327313
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	7	6	5	6	9	6	7	6
Barium	µg/g	390	2.0	118	71.9	52.9	73.2	171	69.1	26.4	82.2
Beryllium	µg/g	5	0.5	0.9	0.7	<0.5	0.9	1.2	0.7	<0.5	0.8
Boron	µg/g	120	5	13	17	14	19	12	14	11	15
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.15	0.27	<0.10	0.25	0.26	0.19	<0.10	0.22
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	21	22	13	23	34	22	7	22
Cobalt	µg/g	22	0.8	9.5	11.8	7.2	13.0	16.0	12.4	3.5	11.7
Copper	µg/g	180	1.0	29.3	31.5	30.7	32.8	39.1	34.0	10.8	29.9
Lead	µg/g	120	1	117	9	12	7	41	10	22	9
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.6
Nickel	µg/g	130	1	24	26	15	28	37	27	10	29
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.55	0.64	<0.50	0.58	0.74	0.63	<0.50	0.58
Vanadium	µg/g	86	2.0	29.3	32.7	22.1	33.1	50.4	31.5	10.0	27.7
Zinc	µg/g	340	5	95	56	48	58	83	57	68	71
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.165	0.158	0.097	0.167	0.217	0.173	0.112	0.193
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.600	0.373	0.219	0.246	1.02	0.448	0.492	0.449
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.36	7.31	7.33	7.25	7.29	7.26	7.27	7.30

Certified By:

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		BH12 SS1	BH12 SS7	DUP 1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-11
Parameter	Unit	G / S	RDL	6327314	6327315	6327316
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	9	6	11
Barium	µg/g	390	2.0	161	70.1	70.8
Beryllium	µg/g	5	0.5	1.1	0.7	0.8
Boron	µg/g	120	5	11	13	15
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.22	0.22	0.23
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	28	18	20
Cobalt	µg/g	22	0.8	13.4	10.5	12.4
Copper	µg/g	180	1.0	32.2	29.3	33.7
Lead	µg/g	120	1	47	9	8
Molybdenum	µg/g	6.9	0.5	0.5	<0.5	0.5
Nickel	µg/g	130	1	33	25	28
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.50	<0.50	0.50
Vanadium	µg/g	86	2.0	38.2	23.4	25.3
Zinc	µg/g	340	5	108	55	66
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.171	0.157	0.181
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.663	0.314	0.214
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.35	7.32	7.25

Certified By:

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327296-6327316 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH8 SS1	BH8 SS7	BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327296**	**6327303**	**6327308**	**6327311**	**6327312**	**6327313**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.12	<0.05	0.05	<0.05	0.28	<0.05
Pyrene	µg/g	78	0.05	0.10	<0.05	0.05	<0.05	0.20	<0.05
Benzo(a)anthracene	µg/g	0.63	0.05	0.06	<0.05	<0.05	<0.05	0.08	<0.05
Chrysene	µg/g	7.8	0.05	0.09	<0.05	<0.05	<0.05	0.12	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.06	<0.05	<0.05	<0.05	0.07	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	0.07	<0.05	<0.05	<0.05	0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.7	7.3	22.6	10.3	9.8	5.2
Surrogate	**Unit**	**Acceptable Limits**							
Naphthalene-d8	%	50-140		70	70	80	95	100	100
Acridine-d9	%	50-140		70	90	75	90	80	70
Terphenyl-d14	%	50-140		80	70	70	105	95	105

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327296-6327313 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowkolof

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327308**	**6327311**	**6327312**	**6327313**
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%		0.1	22.6	10.3	9.8	5.2
Surrogate	**Unit**	**Acceptable Limits**					
Decachlorobiphenyl	%	50-140		116	100	72	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327308-6327313 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH9 SS1	BH9 SS3	DUP 1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-11
Parameter	**Unit**	**G / S**	**RDL**	**6327304**	**6327307**	**6327316**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	6.6	9.0	9.0
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	60-140		95	76	79
Terphenyl	%	60-140		84	76	77

Certified By: NPopowkolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327304-6327316 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: 

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH8 SS1	BH8 SS7	BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327296**	**6327303**	**6327308**	**6327311**	**6327312**	**6327313**
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	73	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	73	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	52	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	16.7	7.3	22.6	10.3	9.8	5.2
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	%	50-140		76	78	80	79	76	78
Terphenyl	%	60-140		100	81	93	92	110	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327296-6327313 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH12 SS1	BH12 SS7
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327314**	**6327315**
F1 (C6 to C10)	µg/g	65	5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	16
F3 (C16 to C34)	µg/g	1300	50	<50	66
F4 (C34 to C50)	µg/g	5600	50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA
Moisture Content	%		0.1	19.3	8.7
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	%	50-140		85	81
Terphenyl	%	60-140		80	140

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327314-6327315 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH8 SS1	BH8 SS7	BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6	BH12 SS1	BH12 SS7
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	Unit	G / S	RDL	6327296	6327303	6327308	6327311	6327312	6327313	6327314	6327315
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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Certificate of Analysis

AGAT WORK ORDER: 24T221637

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH8 SS1	BH8 SS7	BH10 SS2	BH10 SS6	BH11 SS2	BH11 SS6	BH12 SS1	BH12 SS7
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-11	2024-11-11	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327296**	**6327303**	**6327308**	**6327311**	**6327312**	**6327313**	**6327314**	**6327315**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.7	7.3	22.6	10.3	9.8	5.2	19.3	8.7
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		76	78	80	79	76	78	85	81
4-Bromofluorobenzene	% Recovery	50-140		92	91	95	99	92	102	99	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327296-6327315 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221637

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Soil Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6327296	6327296	<0.8	<0.8	NA	< 0.8	98%	70%	130%	86%	80%	120%	79%	70%	130%
Arsenic	6327296	6327296	7	7	0.0%	< 1	128%	70%	130%	102%	80%	120%	102%	70%	130%
Barium	6327296	6327296	118	130	9.7%	< 2.0	121%	70%	130%	105%	80%	120%	107%	70%	130%
Beryllium	6327296	6327296	0.9	0.9	NA	< 0.5	118%	70%	130%	117%	80%	120%	122%	70%	130%
Boron	6327296	6327296	13	12	NA	< 5	91%	70%	130%	101%	80%	120%	81%	70%	130%
Boron (Hot Water Soluble)	6321790		<0.10	<0.10	NA	< 0.10	104%	60%	140%	101%	70%	130%	102%	60%	140%
Cadmium	6327296	6327296	<0.5	<0.5	NA	< 0.5	119%	70%	130%	101%	80%	120%	106%	70%	130%
Chromium	6327296	6327296	21	22	NA	< 5	106%	70%	130%	94%	80%	120%	NA	70%	130%
Cobalt	6327296	6327296	9.5	10.5	10.0%	< 0.8	94%	70%	130%	95%	80%	120%	92%	70%	130%
Copper	6327296	6327296	29.3	30.8	5.0%	< 1.0	104%	70%	130%	100%	80%	120%	NA	70%	130%
Lead	6327296	6327296	117	140	17.9%	< 1	109%	70%	130%	99%	80%	120%	91%	70%	130%
Molybdenum	6327296	6327296	<0.5	0.5	NA	< 0.5	110%	70%	130%	100%	80%	120%	105%	70%	130%
Nickel	6327296	6327296	24	25	4.1%	< 1	114%	70%	130%	103%	80%	120%	98%	70%	130%
Selenium	6327296	6327296	<0.8	<0.8	NA	< 0.8	107%	70%	130%	103%	80%	120%	104%	70%	130%
Silver	6327296	6327296	<0.5	<0.5	NA	< 0.5	127%	70%	130%	105%	80%	120%	105%	70%	130%
Thallium	6327296	6327296	<0.5	<0.5	NA	< 0.5	130%	70%	130%	115%	80%	120%	111%	70%	130%
Uranium	6327296	6327296	0.55	0.60	NA	< 0.50	94%	70%	130%	89%	80%	120%	98%	70%	130%
Vanadium	6327296	6327296	29.3	30.5	4.0%	< 2.0	125%	70%	130%	86%	80%	120%	106%	70%	130%
Zinc	6327296	6327296	95	100	5.1%	< 5	117%	70%	130%	97%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6321798		<0.2	<0.2	NA	< 0.2	93%	70%	130%	89%	80%	120%	72%	70%	130%
Cyanide, WAD	6318026		<0.040	<0.040	NA	< 0.040	99%	70%	130%	95%	80%	120%	76%	70%	130%
Mercury	6327296	6327296	<0.10	<0.10	NA	< 0.10	101%	70%	130%	94%	80%	120%	94%	70%	130%
Electrical Conductivity (2:1)	6327296	6327296	0.165	0.189	13.6%	< 0.005	95%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6327296	6327296	0.600	0.578	3.7%	NA	NA								
pH, 2:1 CaCl2 Extraction	6327035		7.09	7.26	2.4%	NA	100%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

O. Reg. 153(511) - Metals & Inorganics (Soil)															
Boron (Hot Water Soluble)	6327552		0.15	0.17	NA	< 0.10	106%	60%	140%	102%	70%	130%	98%	60%	140%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221637

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Trace Organics Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6327315	6327315	<5	<5	NA	< 5	97%	60%	140%	102%	60%	140%	86%	60%	140%
F2 (C10 to C16)	6327316	6327316	< 10	< 10	NA	< 10	113%	60%	140%	96%	60%	140%	96%	60%	140%
F3 (C16 to C34)	6327316	6327316	< 50	< 50	NA	< 50	114%	60%	140%	114%	60%	140%	129%	60%	140%
F4 (C34 to C50)	6327316	6327316	< 50	< 50	NA	< 50	81%	60%	140%	104%	60%	140%	94%	60%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6327350		<0.05	<0.05	NA	< 0.05	81%	50%	140%	78%	50%	140%	90%	50%	140%
Acenaphthylene	6327350		<0.05	<0.05	NA	< 0.05	83%	50%	140%	95%	50%	140%	78%	50%	140%
Acenaphthene	6327350		<0.05	<0.05	NA	< 0.05	83%	50%	140%	80%	50%	140%	93%	50%	140%
Fluorene	6327350		<0.05	<0.05	NA	< 0.05	84%	50%	140%	78%	50%	140%	88%	50%	140%
Phenanthrene	6327350		<0.05	<0.05	NA	< 0.05	86%	50%	140%	75%	50%	140%	83%	50%	140%
Anthracene	6327350		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	83%	50%	140%
Fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	85%	50%	140%
Pyrene	6327350		<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	88%	50%	140%
Benzo(a)anthracene	6327350		<0.05	<0.05	NA	< 0.05	82%	50%	140%	85%	50%	140%	93%	50%	140%
Chrysene	6327350		<0.05	<0.05	NA	< 0.05	100%	50%	140%	88%	50%	140%	110%	50%	140%
Benzo(b)fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	81%	50%	140%	88%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	112%	50%	140%	85%	50%	140%	105%	50%	140%
Benzo(a)pyrene	6327350		<0.05	<0.05	NA	< 0.05	91%	50%	140%	78%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	6327350		<0.05	<0.05	NA	< 0.05	98%	50%	140%	73%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	6327350		<0.05	<0.05	NA	< 0.05	115%	50%	140%	88%	50%	140%	103%	50%	140%
Benzo(g,h,i)perylene	6327350		<0.05	<0.05	NA	< 0.05	102%	50%	140%	93%	50%	140%	88%	50%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	61%	50%	140%	109%	50%	140%	80%	50%	140%
Vinyl Chloride	6327315	6327315	<0.02	<0.02	NA	< 0.02	128%	50%	140%	84%	50%	140%	111%	50%	140%
Bromomethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	110%	50%	140%	121%	50%	140%	84%	50%	140%
Trichlorofluoromethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	109%	50%	140%	102%	50%	140%	78%	50%	140%
Acetone	6327315	6327315	<0.50	<0.50	NA	< 0.50	97%	50%	140%	113%	50%	140%	102%	50%	140%
1,1-Dichloroethylene	6327315	6327315	<0.05	<0.05	NA	< 0.05	91%	50%	140%	101%	60%	130%	95%	50%	140%
Methylene Chloride	6327315	6327315	<0.05	<0.05	NA	< 0.05	96%	50%	140%	98%	60%	130%	93%	50%	140%
Trans- 1,2-Dichloroethylene	6327315	6327315	<0.05	<0.05	NA	< 0.05	75%	50%	140%	97%	60%	130%	74%	50%	140%
Methyl tert-butyl Ether	6327315	6327315	<0.05	<0.05	NA	< 0.05	113%	50%	140%	88%	60%	130%	95%	50%	140%
1,1-Dichloroethane	6327315	6327315	<0.02	<0.02	NA	< 0.02	96%	50%	140%	104%	60%	130%	106%	50%	140%
Methyl Ethyl Ketone	6327315	6327315	<0.50	<0.50	NA	< 0.50	112%	50%	140%	95%	50%	140%	126%	50%	140%
Cis- 1,2-Dichloroethylene	6327315	6327315	<0.02	<0.02	NA	< 0.02	101%	50%	140%	103%	60%	130%	103%	50%	140%
Chloroform	6327315	6327315	<0.04	<0.04	NA	< 0.04	95%	50%	140%	111%	60%	130%	109%	50%	140%
1,2-Dichloroethane	6327315	6327315	<0.03	<0.03	NA	< 0.03	102%	50%	140%	103%	60%	130%	74%	50%	140%
1,1,1-Trichloroethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	75%	50%	140%	100%	60%	130%	105%	50%	140%
Carbon Tetrachloride	6327315	6327315	<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	60%	130%	79%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221637

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Trace Organics Analysis (Continued)

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	6327315	6327315	<0.02	<0.02	NA	< 0.02	93%	50%	140%	104%	60%	130%	92%	50%	140%
1,2-Dichloropropane	6327315	6327315	<0.03	<0.03	NA	< 0.03	75%	50%	140%	84%	60%	130%	93%	50%	140%
Trichloroethylene	6327315	6327315	<0.03	<0.03	NA	< 0.03	85%	50%	140%	84%	60%	130%	89%	50%	140%
Bromodichloromethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	102%	50%	140%	103%	60%	130%	92%	50%	140%
Methyl Isobutyl Ketone	6327315	6327315	<0.50	<0.50	NA	< 0.50	83%	50%	140%	100%	50%	140%	98%	50%	140%
1,1,2-Trichloroethane	6327315	6327315	<0.04	<0.04	NA	< 0.04	85%	50%	140%	95%	60%	130%	77%	50%	140%
Toluene	6327315	6327315	<0.05	<0.05	NA	< 0.05	100%	50%	140%	111%	60%	130%	87%	50%	140%
Dibromochloromethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	86%	50%	140%	93%	60%	130%	87%	50%	140%
Ethylene Dibromide	6327315	6327315	<0.04	<0.04	NA	< 0.04	67%	50%	140%	86%	60%	130%	102%	50%	140%
Tetrachloroethylene	6327315		<0.05	<0.05	NA	< 0.05	88%	50%	140%	99%	60%	130%	78%	50%	140%
1,1,1,2-Tetrachloroethane	6327315	6327315	<0.04	<0.04	NA	< 0.04	88%	50%	140%	103%	60%	130%	75%	50%	140%
Chlorobenzene	6327315	6327315	<0.05	<0.05	NA	< 0.05	97%	50%	140%	100%	60%	130%	86%	50%	140%
Ethylbenzene	6327315	6327315	<0.05	<0.05	NA	< 0.05	88%	50%	140%	111%	60%	130%	105%	50%	140%
m & p-Xylene	6327315	6327315	<0.05	<0.05	NA	< 0.05	95%	50%	140%	118%	60%	130%	101%	50%	140%
Bromoform	6327315	6327315	<0.05	<0.05	NA	< 0.05	69%	50%	140%	65%	60%	130%	67%	50%	140%
Styrene	6327315	6327315	<0.05	<0.05	NA	< 0.05	79%	50%	140%	95%	60%	130%	88%	50%	140%
1,1,2,2-Tetrachloroethane	6327315	6327315	<0.05	<0.05	NA	< 0.05	105%	50%	140%	108%	60%	130%	89%	50%	140%
o-Xylene	6327315	6327315	<0.05	<0.05	NA	< 0.05	98%	50%	140%	94%	60%	130%	104%	50%	140%
1,3-Dichlorobenzene	6327315	6327315	<0.05	<0.05	NA	< 0.05	100%	50%	140%	103%	60%	130%	99%	50%	140%
1,4-Dichlorobenzene	6327315	6327315	<0.05	<0.05	NA	< 0.05	103%	50%	140%	102%	60%	130%	97%	50%	140%
1,2-Dichlorobenzene	6327315	6327315	<0.05	<0.05	NA	< 0.05	100%	50%	140%	97%	60%	130%	101%	50%	140%
n-Hexane	6327315	6327315	<0.05	<0.05	NA	< 0.05	76%	50%	140%	104%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6324226		<0.02	<0.02	NA	< 0.02	92%	60%	140%	107%	60%	140%	113%	60%	140%
Toluene	6324226		<0.05	<0.05	NA	< 0.05	95%	60%	140%	92%	60%	140%	115%	60%	140%
Ethylbenzene	6324226		<0.05	<0.05	NA	< 0.05	80%	60%	140%	73%	60%	140%	74%	60%	140%
m & p-Xylene	6324226		<0.05	<0.05	NA	< 0.05	109%	60%	140%	112%	60%	140%	104%	60%	140%
o-Xylene	6324226		<0.05	<0.05	NA	< 0.05	88%	60%	140%	93%	60%	140%	102%	60%	140%
F1 (C6 to C10)	6324226		<5	<5	NA	< 5	95%	60%	140%	92%	60%	140%	91%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)															
F1 (C6 to C10)	6327315	6327315	<5	<5	NA	< 5	97%	60%	140%	102%	60%	140%	86%	60%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6317352		< 0.1	< 0.1	NA	< 0.1	104%	50%	140%	97%	50%	140%	102%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221637

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Trace Organics Analysis (Continued)

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By: N Popnikolof

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Method Summary

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SAMPLING SITE:388 Main St. E, Milton

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

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ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

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Have feedback? Scan here for a quick survey!

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Mississauga, Ontario L4Z 1Y2
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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only
Work Order #: 24T221637
Cooler Quantity: 1
Arrival Temperatures: 5.9 | 6.0 | 6.6
Depot Temperatures: | | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: LP

Report Information:
Company: SOILMAT
Contact: Bennett Sabourin
Address: 401 Grays Rd, Hamilton
Phone: Fax:
Reports to be sent to:
1. Email: bsabourin@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Regulatory Requirements:
(Please check all applicable boxes)

☐ Regulation 153/04
Table ___ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Regulation 406
Table 1 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☑ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays
For 'Same Day' analysis, please contact your AGAT CSR

Project Information:
Project: 220141
Site Location: 388 Main St. E, Milton
Sampled By: BS
AGAT Quote #: 16593243833 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. BH8 SS1	Nov 11	AM/PM	4	S			✓		✓	✓	✓								
2. BH8 SS7	Nov 11	AM/PM	4	S			✓		✓	✓	✓								
3. BH9 SS1	Nov 11	AM/PM	3	S			✓		✓										
4. BH9 SS3	Nov 11	AM/PM	3	S			✓		✓										
5. BH10 SS2	Nov 12	AM/PM	5	S			✓		✓	✓	✓	✓							
6. BH10 SS6	Nov 12	AM/PM	5	S			✓		✓	✓	✓	✓							
7. BH11 SS2	Nov 12	AM/PM	5	S			✓		✓	✓	✓	✓							
8. BH11 SS6	Nov 12	AM/PM	5	S			✓		✓	✓	✓	✓							
9. BH12 SS1	Nov 12	AM/PM	3	S			✓		✓	✓									
10. BH12 SS7	Nov 12	AM/PM	3	S			✓		✓	✓									
11. DUP 1	Nov 4	AM/PM	3	S			✓		✓										

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			TM	Nov 15	4pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page ___ of ___
N°: T-162016

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

AGAT Laboratories

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Bennett Sabourin

PROJECT: 220141

AGAT WORK ORDER: 24T221642

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Nov 21, 2024

PAGES (INCLUDING COVER): 23

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
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- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

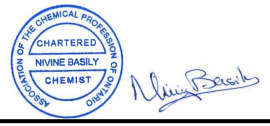
SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

SAMPLE DESCRIPTION:				BH1 SS2	BH1 SS6		BH2 SS2		BH2 SS3	BH3 SS1	BH3 SS2
SAMPLE TYPE:				Soil	Soil		Soil		Soil	Soil	Soil
DATE SAMPLED:				2024-11-14	2024-11-14		2024-11-13		2024-11-13	2024-11-12	2024-11-12
Parameter	Unit	G / S	RDL	6327552	6327554	RDL	6327555	RDL	6327556	6327557	6327558
Antimony	µg/g	7.5	0.8	<0.8	<0.8	0.8	<0.8	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	7	7	1	8	1	7	5	6
Barium	µg/g	390	2.0	93.7	73.1	2.0	**622**	2.0	110	91.4	73.0
Beryllium	µg/g	5	0.5	0.8	0.8	0.5	0.9	0.5	0.8	0.5	0.8
Boron	µg/g	120	5	13	17	5	20	5	17	12	14
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.15	0.37	0.10	0.28	0.10	0.25	0.79	0.35
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	0.5	0.5	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	20	20	5	28	5	21	12	20
Cobalt	µg/g	22	0.8	10.7	10.9	0.8	9.6	0.8	12.0	4.0	11.4
Copper	µg/g	180	1.0	33.7	31.2	1.0	34.1	1.0	36.4	26.2	31.8
Lead	µg/g	120	1	14	10	1	**165**	1	22	**217**	17
Molybdenum	µg/g	6.9	0.5	0.6	<0.5	0.5	0.6	0.5	0.8	<0.5	0.6
Nickel	µg/g	130	1	25	26	1	22	1	27	10	27
Selenium	µg/g	2.4	0.8	<0.8	<0.8	0.8	<0.8	0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.61	0.52	0.50	0.71	0.50	0.60	<0.50	0.51
Vanadium	µg/g	86	2.0	26.7	26.5	2.0	27.7	2.0	26.6	13.6	27.3
Zinc	µg/g	340	5	64	57	50	**2100**	5	77	86	62
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	0.040	<0.040	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.10	0.18	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.222	0.227	0.005	0.356	0.005	0.240	0.382	0.330
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	1.54	0.773	N/A	0.904	N/A	1.08	2.14	1.82
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.20	7.21	NA	8.44	NA	7.59	7.41	7.32

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

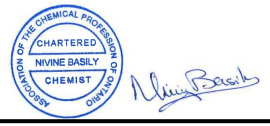
SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH5 SS1	BH5 SS2	BH5 SS5	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15	2024-11-14	2024-11-14
Parameter	Unit	G / S	RDL	6327559	6327572	6327573	6327574	6327575
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	6	7	6	6
Barium	µg/g	390	2.0	90.0	92.3	74.1	94.4	86.5
Beryllium	µg/g	5	0.5	0.7	0.8	0.7	0.8	0.7
Boron	µg/g	120	5	7	9	13	13	14
Boron (Hot Water Soluble)	µg/g	1.5	0.10	1.00	0.28	0.11	0.11	0.16
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	20	22	18	19	19
Cobalt	µg/g	22	0.8	11.7	14.7	11.0	10.3	10.9
Copper	µg/g	180	1.0	24.8	25.8	54.8	28.9	34.4
Lead	µg/g	120	1	57	32	9	9	14
Molybdenum	µg/g	6.9	0.5	<0.5	<0.5	0.6	0.8	<0.5
Nickel	µg/g	130	1	22	27	26	25	26
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	<0.50	0.52	0.55	0.55	<0.50
Vanadium	µg/g	86	2.0	27.7	31.1	24.3	26.5	24.5
Zinc	µg/g	340	5	92	77	59	53	56
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	**1.22**	**1.04**	0.281	0.197	0.184
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	**7.46**	**6.62**	1.61	1.26	0.495
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.08	7.17	7.14	7.06	7.18

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327552-6327554 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

6327555 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Dilution required, RDL has been increased accordingly.

6327556-6327575 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH5 SS1	BH5 SS2	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-14	2024-11-14	2024-11-15	2024-11-15	2024-11-14	2024-11-14
Parameter	**Unit**	**G / S**	**RDL**	**6327552**	**6327554**	**6327559**	**6327572**	**6327574**	**6327575**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	**5.29**	**5.76**	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	<0.05	0.06	0.10	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	**4.12**	**4.77**	<0.05	<0.05
Moisture Content	%		0.1	15.3	8.6	15.2	14.0	13.4	9.3
Surrogate	**Unit**	**Acceptable Limits**							
Naphthalene-d8	%	50-140		80	80	70	70	70	90
Acridine-d9	%	50-140		100	75	100	95	85	70
Terphenyl-d14	%	50-140		90	70	75	75	95	105

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327552-6327575 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-14	2024-11-14	2024-11-14	2024-11-14
Parameter	**Unit**	**G / S**	**RDL**	**6327552**	**6327554**	**6327574**	**6327575**
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%		0.1	15.3	8.6	13.4	9.3
Surrogate	**Unit**	**Acceptable Limits**					
Decachlorobiphenyl	%	50-140		92	96	88	80

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327552-6327575 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		BH2 SS2	BH2 SS3	BH3 SS1	BH3 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-13	2024-11-12	2024-11-12
Parameter	**Unit**	**G / S**	**RDL**	**6327555**	**6327556**	**6327557**	**6327558**
Benzene	µg/g	0.17	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	6	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA
Moisture Content	%		0.1	15.2	11.6	22.6	18.9
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	60-140		100	88	117	104
Terphenyl	%	60-140		76	93	70	79

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PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327555-6327558 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

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AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH5 SS1	BH5 SS2	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-14	2024-11-14	2024-11-15	2024-11-15	2024-11-14	2024-11-14
Parameter	**Unit**	**G / S**	**RDL**	**6327552**	**6327554**	**6327559**	**6327572**	**6327574**	**6327575**
F1 (C6 to C10)	µg/g	65	5	<5	<5	**3230**	**3290**	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	**2440**	**2260**	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	**701**	**384**	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	696	378	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	15.3	8.6	15.2	14.0	13.4	9.3
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	%	50-140		89	78	75	75	83	84
Terphenyl	%	60-140		96	87	73	82	78	85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327552-6327575 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (with VOC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH5 SS5
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2024-11-15
Parameter	**Unit**	**G / S**	**RDL**	**6327573**
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	13.8
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		107
Terphenyl	%	60-140		77

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327573 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH5 SS1	BH5 SS2	BH5 SS5	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-14	2024-11-14	2024-11-15	2024-11-15	2024-11-15	2024-11-14	2024-11-14
Parameter	Unit	G / S	RDL	6327552	6327554	6327559	6327572	6327573	6327574	6327575
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	**20.2**	**25.8**	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	**76.0**	**145**	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	**118**	**139**	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	410	499	<0.05	<0.05	<0.05

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AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH1 SS2	BH1 SS6	BH5 SS1	BH5 SS2	BH5 SS5	BH4 SS2	BH4 SS6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-14	2024-11-14	2024-11-15	2024-11-15	2024-11-15	2024-11-14	2024-11-14
Parameter	**Unit**	**G / S**	**RDL**	**6327552**	**6327554**	**6327559**	**6327572**	**6327573**	**6327574**	**6327575**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	166	217	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	**576**	**716**	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	**117**	**114**	<0.05	<0.05	<0.05
Moisture Content	%		0.1	15.3	8.6	15.2	14.0	13.8	13.4	9.3
Surrogate	**Unit**	**Acceptable Limits**								
Toluene-d8	% Recovery	50-140		89	78	75	104	107	83	84
4-Bromofluorobenzene	% Recovery	50-140		98	91	101	50	56	97	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327552-6327575 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

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Exceedance Summary

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6327555	BH2 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Barium	µg/g	390	622
6327555	BH2 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	165
6327555	BH2 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Zinc	µg/g	340	2100
6327557	BH3 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Lead	µg/g	120	217
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.22
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	7.46
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	2-and 1-methyl Naphthalene	µg/g	3.4	4.12
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Naphthalene	µg/g	0.75	5.29
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Benzene	µg/g	0.17	20.2
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Ethylbenzene	µg/g	15	118
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F1 (C6 to C10)	µg/g	65	3230
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	2440
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F2 (C10 to C16)	µg/g	150	701
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Naphthalene	µg/g	0.75	5.29
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Toluene	µg/g	6	76.0
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Benzene	ug/g	0.17	20.2
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Ethylbenzene	ug/g	15	118
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Toluene	ug/g	6	76.0
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Xylenes (Total)	ug/g	25	576
6327559	BH5 SS1	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	n-Hexane	µg/g	34	117
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	0.7	1.04
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	6.62
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	2-and 1-methyl Naphthalene	µg/g	3.4	4.77
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PAHs (Soil)	Naphthalene	µg/g	0.75	5.76
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Benzene	µg/g	0.17	25.8
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Ethylbenzene	µg/g	15	139
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F1 (C6 to C10)	µg/g	65	3290
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F1 (C6 to C10) minus BTEX	µg/g	65	2260
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	F2 (C10 to C16)	µg/g	150	384
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Naphthalene	µg/g	0.75	5.76
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)	Toluene	µg/g	6	145
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Benzene	ug/g	0.17	25.8

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Exceedance Summary

AGAT WORK ORDER: 24T221642

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Ethylbenzene	ug/g	15	139
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Toluene	ug/g	6	145
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	Xylenes (Total)	ug/g	25	716
6327572	BH5 SS2	ON T3 S RPI MFT	O. Reg. 153(511) - VOCs (with PHC) (Soil)	n-Hexane	µg/g	34	114

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221642

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Soil Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6327296		<0.8	<0.8	NA	< 0.8	98%	70%	130%	86%	80%	120%	79%	70%	130%
Arsenic	6327296		7	7	3.2%	< 1	128%	70%	130%	102%	80%	120%	102%	70%	130%
Barium	6327296		118	130	9.1%	< 2.0	121%	70%	130%	105%	80%	120%	107%	70%	130%
Beryllium	6327296		0.9	0.9	NA	< 0.5	118%	70%	130%	117%	80%	120%	122%	70%	130%
Boron	6327296		13	12	NA	< 5	91%	70%	130%	101%	80%	120%	81%	70%	130%
Boron (Hot Water Soluble)	6327552	6327552	0.15	0.17	NA	< 0.10	106%	60%	140%	102%	70%	130%	98%	60%	140%
Cadmium	6327296		<0.5	<0.5	NA	< 0.5	119%	70%	130%	101%	80%	120%	106%	70%	130%
Chromium	6327296		21	22	NA	< 5	106%	70%	130%	94%	80%	120%	NA	70%	130%
Cobalt	6327296		9.5	10.5	10.3%	< 0.8	94%	70%	130%	95%	80%	120%	92%	70%	130%
Copper	6327296		29.3	30.8	5.0%	< 1.0	104%	70%	130%	100%	80%	120%	NA	70%	130%
Lead	6327296		117	140	18.2%	< 1	109%	70%	130%	99%	80%	120%	91%	70%	130%
Molybdenum	6327296		<0.5	0.5	NA	< 0.5	110%	70%	130%	100%	80%	120%	105%	70%	130%
Nickel	6327296		24	25	3.5%	< 1	114%	70%	130%	103%	80%	120%	98%	70%	130%
Selenium	6327296		<0.8	<0.8	NA	< 0.8	107%	70%	130%	103%	80%	120%	104%	70%	130%
Silver	6327296		<0.5	<0.5	NA	< 0.5	127%	70%	130%	105%	80%	120%	105%	70%	130%
Thallium	6327296		<0.5	<0.5	NA	< 0.5	130%	70%	130%	115%	80%	120%	111%	70%	130%
Uranium	6327296		0.55	0.60	NA	< 0.50	94%	70%	130%	89%	80%	120%	98%	70%	130%
Vanadium	6327296		29.3	30.5	4.0%	< 2.0	125%	70%	130%	86%	80%	120%	106%	70%	130%
Zinc	6327296		95	100	5.9%	< 5	117%	70%	130%	97%	80%	120%	NA	70%	130%
Chromium, Hexavalent	6327572	6327572	<0.2	<0.2	NA	< 0.2	93%	70%	130%	89%	80%	120%	70%	70%	130%
Cyanide, WAD	6327574	6327574	<0.040	<0.040	NA	< 0.040	94%	70%	130%	98%	80%	120%	100%	70%	130%
Mercury	6327296		<0.10	<0.10	NA	< 0.10	101%	70%	130%	94%	80%	120%	94%	70%	130%
Electrical Conductivity (2:1)	6327296		0.165	0.189	13.5%	< 0.005	95%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6327296		0.600	0.578	3.7%	NA									
pH, 2:1 CaCl2 Extraction	6325818		6.43	6.68	3.8%	NA	102%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

O. Reg. 153(511) - Metals & Inorganics (Soil)									
Electrical Conductivity (2:1)	6327552	6327552	0.222	0.248	11.3%	< 0.005	96%	80%	120%
Sodium Adsorption Ratio (2:1) (Calc.)	6327552	6327552	1.54	1.39	10.2%	NA			
pH, 2:1 CaCl2 Extraction	6327574	6327574	7.06	7.13	1.0%	NA	100%	80%	120%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221642

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Soil Analysis (Continued)

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Certified By:

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221642

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Trace Organics Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6327315		<5	<5	NA	< 5	97%	60%	140%	102%	60%	140%	86%	60%	140%
F2 (C10 to C16)	6323223		< 10	< 10	NA	< 10	99%	60%	140%	91%	60%	140%	115%	60%	140%
F3 (C16 to C34)	6323223		< 50	< 50	NA	< 50	89%	60%	140%	107%	60%	140%	125%	60%	140%
F4 (C34 to C50)	6323223		< 50	< 50	NA	< 50	69%	60%	140%	114%	60%	140%	79%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6327315		<0.05	<0.05	NA	< 0.05	61%	50%	140%	109%	50%	140%	80%	50%	140%
Vinyl Chloride	6327315		<0.02	<0.02	NA	< 0.02	128%	50%	140%	84%	50%	140%	111%	50%	140%
Bromomethane	6327315		<0.05	<0.05	NA	< 0.05	110%	50%	140%	121%	50%	140%	84%	50%	140%
Trichlorofluoromethane	6327315		<0.05	<0.05	NA	< 0.05	109%	50%	140%	102%	50%	140%	78%	50%	140%
Acetone	6327315		<0.50	<0.50	NA	< 0.50	97%	50%	140%	113%	50%	140%	102%	50%	140%
1,1-Dichloroethylene	6327315		<0.05	<0.05	NA	< 0.05	91%	50%	140%	101%	60%	130%	95%	50%	140%
Methylene Chloride	6327315		<0.05	<0.05	NA	< 0.05	96%	50%	140%	98%	60%	130%	93%	50%	140%
Trans- 1,2-Dichloroethylene	6327315		<0.05	<0.05	NA	< 0.05	75%	50%	140%	97%	60%	130%	74%	50%	140%
Methyl tert-butyl Ether	6327315		<0.05	<0.05	NA	< 0.05	113%	50%	140%	88%	60%	130%	95%	50%	140%
1,1-Dichloroethane	6327315		<0.02	<0.02	NA	< 0.02	96%	50%	140%	104%	60%	130%	106%	50%	140%
Methyl Ethyl Ketone	6327315		<0.50	<0.50	NA	< 0.50	112%	50%	140%	95%	50%	140%	126%	50%	140%
Cis- 1,2-Dichloroethylene	6327315		<0.02	<0.02	NA	< 0.02	101%	50%	140%	103%	60%	130%	103%	50%	140%
Chloroform	6327315		<0.04	<0.04	NA	< 0.04	95%	50%	140%	111%	60%	130%	109%	50%	140%
1,2-Dichloroethane	6327315		<0.03	<0.03	NA	< 0.03	102%	50%	140%	103%	60%	130%	74%	50%	140%
1,1,1-Trichloroethane	6327315		<0.05	<0.05	NA	< 0.05	75%	50%	140%	100%	60%	130%	105%	50%	140%
Carbon Tetrachloride	6327315		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	60%	130%	79%	50%	140%
Benzene	6327315		<0.02	<0.02	NA	< 0.02	93%	50%	140%	104%	60%	130%	92%	50%	140%
1,2-Dichloropropane	6327315		<0.03	<0.03	NA	< 0.03	75%	50%	140%	84%	60%	130%	93%	50%	140%
Trichloroethylene	6327315		<0.03	<0.03	NA	< 0.03	85%	50%	140%	84%	60%	130%	89%	50%	140%
Bromodichloromethane	6327315		<0.05	<0.05	NA	< 0.05	102%	50%	140%	103%	60%	130%	92%	50%	140%
Methyl Isobutyl Ketone	6327315		<0.50	<0.50	NA	< 0.50	83%	50%	140%	100%	50%	140%	98%	50%	140%
1,1,2-Trichloroethane	6327315		<0.04	<0.04	NA	< 0.04	85%	50%	140%	95%	60%	130%	77%	50%	140%
Toluene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	111%	60%	130%	87%	50%	140%
Dibromochloromethane	6327315		<0.05	<0.05	NA	< 0.05	86%	50%	140%	93%	60%	130%	87%	50%	140%
Ethylene Dibromide	6327315		<0.04	<0.04	NA	< 0.04	67%	50%	140%	86%	60%	130%	102%	50%	140%
Tetrachloroethylene	6327315		<0.05	<0.05	NA	< 0.05	88%	50%	140%	99%	60%	130%	78%	50%	140%
1,1,1,2-Tetrachloroethane	6327315		<0.04	<0.04	NA	< 0.04	88%	50%	140%	103%	60%	130%	75%	50%	140%
Chlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	97%	50%	140%	100%	60%	130%	86%	50%	140%
Ethylbenzene	6327315		<0.05	<0.05	NA	< 0.05	88%	50%	140%	111%	60%	130%	105%	50%	140%
m & p-Xylene	6327315		<0.05	<0.05	NA	< 0.05	95%	50%	140%	118%	60%	130%	101%	50%	140%
Bromoform	6327315		<0.05	<0.05	NA	< 0.05	69%	50%	140%	65%	60%	130%	67%	50%	140%
Styrene	6327315		<0.05	<0.05	NA	< 0.05	79%	50%	140%	95%	60%	130%	88%	50%	140%
1,1,2,2-Tetrachloroethane	6327315		<0.05	<0.05	NA	< 0.05	105%	50%	140%	108%	60%	130%	89%	50%	140%
o-Xylene	6327315		<0.05	<0.05	NA	< 0.05	98%	50%	140%	94%	60%	130%	104%	50%	140%

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Quality Assurance

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AGAT WORK ORDER: 24T221642

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

Trace Organics Analysis (Continued)

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	103%	60%	130%	99%	50%	140%
1,4-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	103%	50%	140%	102%	60%	130%	97%	50%	140%
1,2-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	97%	60%	130%	101%	50%	140%
n-Hexane	6327315		<0.05	<0.05	NA	< 0.05	76%	50%	140%	104%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6327350		<0.05	<0.05	NA	< 0.05	81%	50%	140%	78%	50%	140%	90%	50%	140%
Acenaphthylene	6327350		<0.05	<0.05	NA	< 0.05	83%	50%	140%	95%	50%	140%	78%	50%	140%
Acenaphthene	6327350		<0.05	<0.05	NA	< 0.05	83%	50%	140%	80%	50%	140%	93%	50%	140%
Fluorene	6327350		<0.05	<0.05	NA	< 0.05	84%	50%	140%	78%	50%	140%	88%	50%	140%
Phenanthrene	6327350		<0.05	<0.05	NA	< 0.05	86%	50%	140%	75%	50%	140%	83%	50%	140%
Anthracene	6327350		<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	83%	50%	140%
Fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	85%	50%	140%
Pyrene	6327350		<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	88%	50%	140%
Benzo(a)anthracene	6327350		<0.05	<0.05	NA	< 0.05	82%	50%	140%	85%	50%	140%	93%	50%	140%
Chrysene	6327350		<0.05	<0.05	NA	< 0.05	100%	50%	140%	88%	50%	140%	110%	50%	140%
Benzo(b)fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	81%	50%	140%	88%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6327350		<0.05	<0.05	NA	< 0.05	112%	50%	140%	85%	50%	140%	105%	50%	140%
Benzo(a)pyrene	6327350		<0.05	<0.05	NA	< 0.05	91%	50%	140%	78%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	6327350		<0.05	<0.05	NA	< 0.05	98%	50%	140%	73%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	6327350		<0.05	<0.05	NA	< 0.05	115%	50%	140%	88%	50%	140%	103%	50%	140%
Benzo(g,h,i)perylene	6327350		<0.05	<0.05	NA	< 0.05	102%	50%	140%	93%	50%	140%	88%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6227350		< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	105%	50%	140%	106%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6325831		<0.02	<0.02	NA	< 0.02	95%	60%	140%	95%	60%	140%	95%	60%	140%
Toluene	6325831		<0.05	<0.05	NA	< 0.05	115%	60%	140%	81%	60%	140%	125%	60%	140%
Ethylbenzene	6325831		<0.05	<0.05	NA	< 0.05	114%	60%	140%	85%	60%	140%	121%	60%	140%
m & p-Xylene	6325831		<0.05	<0.05	NA	< 0.05	107%	60%	140%	111%	60%	140%	109%	60%	140%
o-Xylene	6325831		<0.05	<0.05	NA	< 0.05	118%	60%	140%	81%	60%	140%	103%	60%	140%
F1 (C6 to C10)	6325831		<5	<5	NA	< 5	82%	60%	140%	91%	60%	140%	80%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: R. Chakraberty

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221642

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:388 Main St. E, Milton

SAMPLED BY:BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only
Work Order #: 24T221642
Cooler Quantity: 1L
Arrival Temperatures: 5.8 | 6.0 | 6.9
Depot Temperatures: | |
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: L L

Report Information:
Company: Soilmat
Contact: Bennett Sabourin
Address: 401 Grays Rd, Hamilton
Phone: Fax:
Reports to be sent to:
1. Email: bsabourin@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Project Information:
Project: 220141
Site Location: 388 Main St. E, Milton
Sampled By: BS
AGAT Quote #: 165932 43833 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☐ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:
(Please check all applicable boxes)

☐ Regulation 153/04
Table ____ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Regulation 406
Table 1 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Indicate One

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. BH1 SS2	Nov 14	AM/PM	5	S			✓		✓	✓	✓	✓							
2. BH1 SS6	Nov 14	AM/PM	5	S			✓		✓	✓	✓	✓							
3. BH2 SS2	Nov 13	AM/PM	3	S			✓		✓										
4. BH2 SS3	Nov 13	AM/PM	3	S			✓		✓										
5. BH3 SS1	Nov 12	AM/PM	3	S			✓		✓										
6. BH3 SS2	Nov 12	AM/PM	3	S			✓		✓										
7. BH5 SS1	Nov 15	AM/PM	4	S			✓		✓	✓	✓								
8. BH5 SS2	Nov 15	AM/PM	4	S			✓		✓	✓	✓								
9. BH5 SS5	Nov 15	AM/PM	3	S			✓		✓	✓									
10. BH4 SS2	Nov 14	AM/PM	5	S			✓		✓	✓	✓	✓							
11. BH4 SS6	Nov 14	AM/PM	5	S			✓		✓	✓	✓	✓							

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Samples Received By (Print Name and Sign): Nov 15 4p

Page ____ of ____

N°: T - 164593

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Bennett Sabourin

PROJECT: 220141

AGAT WORK ORDER: 24T221643

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Nov 21, 2024

PAGES (INCLUDING COVER): 19

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

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Certificate of Analysis

AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		DUP 2	BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		2024-11-13	2024-11-15	2024-11-15	2024-11-15
Parameter	Unit	G / S	RDL	6327340	6327341	6327349	6327350
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	7	8	5	6
Barium	µg/g	390	2.0	183	97.4	139	104
Beryllium	µg/g	5	0.5	0.8	0.8	1.1	1.0
Boron	µg/g	120	5	16	8	15	14
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.38	0.50	0.30	0.26
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	21	29	33	28
Cobalt	µg/g	22	0.8	12.0	13.8	13.0	12.9
Copper	µg/g	180	1.0	40.6	20.2	27.4	28.4
Lead	µg/g	120	1	58	32	12	8
Molybdenum	µg/g	6.9	0.5	0.8	0.7	<0.5	<0.5
Nickel	µg/g	130	1	25	24	33	29
Selenium	µg/g	2.4	0.8	<0.8	<0.8	<0.8	<0.8
Silver	µg/g	25	0.5	<0.5	<0.5	<0.5	<0.5
Thallium	µg/g	1	0.5	<0.5	<0.5	<0.5	<0.5
Uranium	µg/g	23	0.50	0.70	0.58	0.74	0.73
Vanadium	µg/g	86	2.0	28.3	41.8	44.6	39.5
Zinc	µg/g	340	5	120	88	70	64
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.598	0.344	0.642	0.394
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	0.818	1.80	2.08	2.16
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.24	6.99	7.14	7.20

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327340-6327350 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15
Parameter	**Unit**	**G / S**	**RDL**	**6327341**	**6327349**	**6327350**
Naphthalene	µg/g	0.75	0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.8	13.7	18.1
Surrogate	**Unit**	**Acceptable Limits**				
Naphthalene-d8	%	50-140		90	80	105
Acridine-d9	%	50-140		100	100	70
Terphenyl-d14	%	50-140		85	100	90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327341-6327350 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15
Parameter	**Unit**	**G / S**	**RDL**	**6327341**	**6327349**	**6327350**
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1	<0.1	<0.1
Moisture Content	%		0.1	16.8	13.7	18.1
Surrogate	**Unit**	**Acceptable Limits**				
Decachlorobiphenyl	%	50-140		72	84	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327341-6327350 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

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AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		DUP 2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2024-11-13
Parameter	**Unit**	**G / S**	**RDL**	**6327340**
Benzene	µg/g	0.17	0.02	<0.02
Toluene	µg/g	6	0.05	<0.05
Ethylbenzene	µg/g	15	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	25	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	13.2
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	60-140		90
Terphenyl	%	60-140		77

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AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327340 Results are based on sample dry weight.
The C6-C10 fraction is calculated using Toluene response factor.
Xylenes is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.
Quality Control Data is available upon request.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2024-11-15 **DATE REPORTED: 2024-11-21**

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15
Parameter	Unit	G / S	RDL	6327341	6327349	6327350
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	150	10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g	1300	50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50
F4 (C34 to C50)	µg/g	5600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA	NA	NA
Moisture Content	%		0.1	16.8	13.7	18.1
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	%	50-140		82	89	82
Terphenyl	%	60-140		98	96	95

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327341-6327350 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15
Parameter	Unit	G / S	RDL	6327341	6327349	6327350
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Toluene	ug/g	6	0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 24T221643

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2024-11-15

DATE REPORTED: 2024-11-21

		SAMPLE DESCRIPTION:		BH13 SS1	BH13 SS2	DUP 14
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-11-15	2024-11-15	2024-11-15
Parameter	**Unit**	**G / S**	**RDL**	**6327341**	**6327349**	**6327350**
Bromoform	ug/g	0.26	0.05	<0.05	<0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	16.8	13.7	18.1
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		82	89	82
4-Bromofluorobenzene	% Recovery	50-140		100	104	99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6327341-6327350 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

Soil Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6327698		<0.8	<0.8	NA	< 0.8	92%	70%	130%	85%	80%	120%	79%	70%	130%
Arsenic	6327698		2	2	NA	< 1	118%	70%	130%	107%	80%	120%	114%	70%	130%
Barium	6327698		22.7	24.2	6.4%	< 2.0	104%	70%	130%	100%	80%	120%	115%	70%	130%
Beryllium	6327698		<0.5	<0.5	NA	< 0.5	109%	70%	130%	111%	80%	120%	139%	70%	130%
Boron	6327698		<5	<5	NA	< 5	87%	70%	130%	95%	80%	120%	122%	70%	130%
Boron (Hot Water Soluble)	6327344		0.23	0.23	NA	< 0.10	105%	60%	140%	102%	70%	130%	102%	60%	140%
Cadmium	6327698		<0.5	<0.5	NA	< 0.5	96%	70%	130%	97%	80%	120%	107%	70%	130%
Chromium	6327698		8	8	NA	< 5	113%	70%	130%	99%	80%	120%	111%	70%	130%
Cobalt	6327698		3.3	3.5	NA	< 0.8	115%	70%	130%	111%	80%	120%	115%	70%	130%
Copper	6327698		8.5	9.0	5.7%	< 1.0	103%	70%	130%	100%	80%	120%	105%	70%	130%
Lead	6327698		4	4	NA	< 1	113%	70%	130%	110%	80%	120%	98%	70%	130%
Molybdenum	6327698		<0.5	0.6	NA	< 0.5	111%	70%	130%	105%	80%	120%	112%	70%	130%
Nickel	6327698		8	8	0.0%	< 1	119%	70%	130%	113%	80%	120%	115%	70%	130%
Selenium	6327698		<0.8	<0.8	NA	< 0.8	129%	70%	130%	99%	80%	120%	119%	70%	130%
Silver	6327698		<0.5	<0.5	NA	< 0.5	109%	70%	130%	118%	80%	120%	103%	70%	130%
Thallium	6327698		<0.5	<0.5	NA	< 0.5	96%	70%	130%	102%	80%	120%	101%	70%	130%
Uranium	6327698		<0.50	<0.50	NA	< 0.50	111%	70%	130%	110%	80%	120%	104%	70%	130%
Vanadium	6327698		16.2	16.6	2.4%	< 2.0	118%	70%	130%	109%	80%	120%	122%	70%	130%
Zinc	6327698		17	19	NA	< 5	118%	70%	130%	111%	80%	120%	119%	70%	130%
Chromium, Hexavalent	6321798		<0.2	<0.2	NA	< 0.2	93%	70%	130%	89%	80%	120%	72%	70%	130%
Cyanide, WAD	6325818		<0.040	<0.040	NA	< 0.040	94%	70%	130%	98%	80%	120%	106%	70%	130%
Mercury	6327698		<0.10	<0.10	NA	< 0.10	106%	70%	130%	98%	80%	120%	101%	70%	130%
Electrical Conductivity (2:1)	6327344		0.629	0.597	5.2%	< 0.005	99%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6327698		1.80	1.72	4.5%	NA									
pH, 2:1 CaCl2 Extraction	6327574		7.06	7.13	1.0%	NA	100%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

Trace Organics Analysis

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (Soil)															
Benzene	6324226		<0.02	<0.02	NA	< 0.02	92%	60%	140%	107%	60%	140%	113%	60%	140%
Toluene	6324226		<0.05	<0.05	NA	< 0.05	95%	60%	140%	92%	60%	140%	115%	60%	140%
Ethylbenzene	6324226		<0.05	<0.05	NA	< 0.05	80%	60%	140%	73%	60%	140%	74%	60%	140%
m & p-Xylene	6324226		<0.05	<0.05	NA	< 0.05	109%	60%	140%	112%	60%	140%	104%	60%	140%
o-Xylene	6324226		<0.05	<0.05	NA	< 0.05	88%	60%	140%	93%	60%	140%	102%	60%	140%
F1 (C6 to C10)	6324226		<5	<5	NA	< 5	95%	60%	140%	92%	60%	140%	91%	60%	140%
F2 (C10 to C16)	6323223		< 10	< 10	NA	< 10	99%	60%	140%	91%	60%	140%	115%	60%	140%
F3 (C16 to C34)	6323223		< 50	< 50	NA	< 50	89%	60%	140%	107%	60%	140%	125%	60%	140%
F4 (C34 to C50)	6323223		< 50	< 50	NA	< 50	69%	60%	140%	114%	60%	140%	79%	60%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6327315		<5	<5	NA	< 5	97%	60%	140%	102%	60%	140%	86%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6327315		<0.05	<0.05	NA	< 0.05	61%	50%	140%	109%	50%	140%	80%	50%	140%
Vinyl Chloride	6327315		<0.02	<0.02	NA	< 0.02	128%	50%	140%	84%	50%	140%	111%	50%	140%
Bromomethane	6327315		<0.05	<0.05	NA	< 0.05	110%	50%	140%	121%	50%	140%	84%	50%	140%
Trichlorofluoromethane	6327315		<0.05	<0.05	NA	< 0.05	109%	50%	140%	102%	50%	140%	78%	50%	140%
Acetone	6327315		<0.50	<0.50	NA	< 0.50	97%	50%	140%	113%	50%	140%	102%	50%	140%
1,1-Dichloroethylene	6327315		<0.05	<0.05	NA	< 0.05	91%	50%	140%	101%	60%	130%	95%	50%	140%
Methylene Chloride	6327315		<0.05	<0.05	NA	< 0.05	96%	50%	140%	98%	60%	130%	93%	50%	140%
Trans- 1,2-Dichloroethylene	6327315		<0.05	<0.05	NA	< 0.05	75%	50%	140%	97%	60%	130%	74%	50%	140%
Methyl tert-butyl Ether	6327315		<0.05	<0.05	NA	< 0.05	113%	50%	140%	88%	60%	130%	95%	50%	140%
1,1-Dichloroethane	6327315		<0.02	<0.02	NA	< 0.02	96%	50%	140%	104%	60%	130%	106%	50%	140%
Methyl Ethyl Ketone	6327315		<0.50	<0.50	NA	< 0.50	112%	50%	140%	95%	50%	140%	126%	50%	140%
Cis- 1,2-Dichloroethylene	6327315		<0.02	<0.02	NA	< 0.02	101%	50%	140%	103%	60%	130%	103%	50%	140%
Chloroform	6327315		<0.04	<0.04	NA	< 0.04	95%	50%	140%	111%	60%	130%	109%	50%	140%
1,2-Dichloroethane	6327315		<0.03	<0.03	NA	< 0.03	102%	50%	140%	103%	60%	130%	74%	50%	140%
1,1,1-Trichloroethane	6327315		<0.05	<0.05	NA	< 0.05	75%	50%	140%	100%	60%	130%	105%	50%	140%
Carbon Tetrachloride	6327315		<0.05	<0.05	NA	< 0.05	105%	50%	140%	102%	60%	130%	79%	50%	140%
Benzene	6327315		<0.02	<0.02	NA	< 0.02	93%	50%	140%	104%	60%	130%	92%	50%	140%
1,2-Dichloropropane	6327315		<0.03	<0.03	NA	< 0.03	75%	50%	140%	84%	60%	130%	93%	50%	140%
Trichloroethylene	6327315		<0.03	<0.03	NA	< 0.03	85%	50%	140%	84%	60%	130%	89%	50%	140%
Bromodichloromethane	6327315		<0.05	<0.05	NA	< 0.05	102%	50%	140%	103%	60%	130%	92%	50%	140%
Methyl Isobutyl Ketone	6327315		<0.50	<0.50	NA	< 0.50	83%	50%	140%	100%	50%	140%	98%	50%	140%
1,1,2-Trichloroethane	6327315		<0.04	<0.04	NA	< 0.04	85%	50%	140%	95%	60%	130%	77%	50%	140%
Toluene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	111%	60%	130%	87%	50%	140%
Dibromochloromethane	6327315		<0.05	<0.05	NA	< 0.05	86%	50%	140%	93%	60%	130%	87%	50%	140%
Ethylene Dibromide	6327315		<0.04	<0.04	NA	< 0.04	67%	50%	140%	86%	60%	130%	102%	50%	140%
Tetrachloroethylene	6327315		<0.05	<0.05	NA	< 0.05	88%	50%	140%	99%	60%	130%	78%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

Trace Organics Analysis (Continued)

RPT Date: Nov 21, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1,1,2-Tetrachloroethane	6327315		<0.04	<0.04	NA	< 0.04	88%	50%	140%	103%	60%	130%	75%	50%	140%
Chlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	97%	50%	140%	100%	60%	130%	86%	50%	140%
Ethylbenzene	6327315		<0.05	<0.05	NA	< 0.05	88%	50%	140%	111%	60%	130%	105%	50%	140%
m & p-Xylene	6327315		<0.05	<0.05	NA	< 0.05	95%	50%	140%	118%	60%	130%	101%	50%	140%
Bromoform	6327315		<0.05	<0.05	NA	< 0.05	69%	50%	140%	65%	60%	130%	67%	50%	140%
Styrene	6327315		<0.05	<0.05	NA	< 0.05	79%	50%	140%	95%	60%	130%	88%	50%	140%
1,1,2,2-Tetrachloroethane	6327315		<0.05	<0.05	NA	< 0.05	105%	50%	140%	108%	60%	130%	89%	50%	140%
o-Xylene	6327315		<0.05	<0.05	NA	< 0.05	98%	50%	140%	94%	60%	130%	104%	50%	140%
1,3-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	103%	60%	130%	99%	50%	140%
1,4-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	103%	50%	140%	102%	60%	130%	97%	50%	140%
1,2-Dichlorobenzene	6327315		<0.05	<0.05	NA	< 0.05	100%	50%	140%	97%	60%	130%	101%	50%	140%
n-Hexane	6327315		<0.05	<0.05	NA	< 0.05	76%	50%	140%	104%	60%	130%	87%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6327350	6327350	<0.05	<0.05	NA	< 0.05	81%	50%	140%	78%	50%	140%	90%	50%	140%
Acenaphthylene	6327350	6327350	<0.05	<0.05	NA	< 0.05	83%	50%	140%	95%	50%	140%	78%	50%	140%
Acenaphthene	6327350	6327350	<0.05	<0.05	NA	< 0.05	83%	50%	140%	80%	50%	140%	93%	50%	140%
Fluorene	6327350	6327350	<0.05	<0.05	NA	< 0.05	84%	50%	140%	78%	50%	140%	88%	50%	140%
Phenanthrene	6327350	6327350	<0.05	<0.05	NA	< 0.05	86%	50%	140%	75%	50%	140%	83%	50%	140%
Anthracene	6327350	6327350	<0.05	<0.05	NA	< 0.05	72%	50%	140%	73%	50%	140%	83%	50%	140%
Fluoranthene	6327350	6327350	<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	85%	50%	140%
Pyrene	6327350	6327350	<0.05	<0.05	NA	< 0.05	90%	50%	140%	78%	50%	140%	88%	50%	140%
Benzo(a)anthracene	6327350	6327350	<0.05	<0.05	NA	< 0.05	82%	50%	140%	85%	50%	140%	93%	50%	140%
Chrysene	6327350	6327350	<0.05	<0.05	NA	< 0.05	100%	50%	140%	88%	50%	140%	110%	50%	140%
Benzo(b)fluoranthene	6327350	6327350	<0.05	<0.05	NA	< 0.05	81%	50%	140%	88%	50%	140%	85%	50%	140%
Benzo(k)fluoranthene	6327350	6327350	<0.05	<0.05	NA	< 0.05	112%	50%	140%	85%	50%	140%	105%	50%	140%
Benzo(a)pyrene	6327350	6327350	<0.05	<0.05	NA	< 0.05	91%	50%	140%	78%	50%	140%	85%	50%	140%
Indeno(1,2,3-cd)pyrene	6327350	6327350	<0.05	<0.05	NA	< 0.05	98%	50%	140%	73%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	6327350	6327350	<0.05	<0.05	NA	< 0.05	115%	50%	140%	88%	50%	140%	103%	50%	140%
Benzo(g,h,i)perylene	6327350	6327350	<0.05	<0.05	NA	< 0.05	102%	50%	140%	93%	50%	140%	88%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6227350	6227350	< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	105%	50%	140%	106%	50%	140%

Certified By: R. Chakraberty

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

RPT Date: Nov 21, 2024

PARAMETER	Sample Id	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Beryllium		109%	70%	130%	111%	80%	120%	139%	70%	130%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Benzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Toluene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/MS
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID

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SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T221643

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:Milton: 388 Main St. E & 17 Pearl St.

SAMPLED BY:BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

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Have feedback? Scan here for a quick survey!

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webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24T221643

Cooler Quantity: 1

Arrival Temperatures: 6.3 | 6.5 | 7.0

Depot Temperatures: | | |

Custody Seal Intact: ☐ Yes ☐ No ☑ N/A

Notes: L IJ

Report Information:

Company: SOILMAT

Contact: Bennett Subounin

Address: 401 Grays Rd, Hamilton

Phone: Fax:

Reports to be sent to:

1. Email: bsubounin@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04 — Table ___ (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture — Soil Texture (Check One) ☐ Coarse ☐ Fine

☑ Regulation 406 — Table 1 (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture ☐ Regulation 558 ☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region ☐ Prov. Water Quality Objectives (PWQO) ☐ Other (Indicate One)

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply): ___

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 220141

Site Location: Milton: 388 Main St. E & 17 Pearl St

Sampled By: BS

AGAT Quote #: 16593243833 PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Arocolors ☐	O. Reg 406: Regulation 406 Characterization Package	O. Reg 406: pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach	O. Reg 406: mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP:	O. Reg 558: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. Dup 2	Nov 13	AM/PM	3	S			✓		✓												
2. BH13 SS1	Nov 15	AM/PM	5	S			✓		✓	✓	✓	✓									
3. BH13 SS2	↓	AM/PM	5	S			✓		✓	✓	✓	✓									
4. Dup 14	↓	AM/PM	5	S			✓		✓	✓	✓	✓									
5.		AM/PM																			
6.		AM/PM																			
7.		AM/PM																			
8.		AM/PM																			
9.		AM/PM																			
10.		AM/PM																			
11.		AM/PM																			

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			[illegible]	Nov 15	4pm
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page ___ of ___

No: T - 163857

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Joanne Jackson

PROJECT: SM 220141-G

AGAT WORK ORDER: 25H309956

SOIL ANALYSIS REVIEWED BY: Chuandi Zhang, Inorganic Supervisor

TRACE ORGANICS REVIEWED BY: Radhika Chakraberty, Trace Organics Lab Manager

DATE REPORTED: Jun 19, 2025

PAGES (INCLUDING COVER): 16

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

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Certificate of Analysis

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-06-13

DATE REPORTED: 2025-06-19

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	Unit	G / S	RDL	6815698
Antimony	µg/g	7.5	0.8	<0.8
Arsenic	µg/g	18	1	5
Barium	µg/g	390	2.0	80.9
Beryllium	µg/g	5	0.5	0.7
Boron	µg/g	120	5	14
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.26
Cadmium	µg/g	1.2	0.5	<0.5
Chromium	µg/g	160	5	21
Cobalt	µg/g	22	0.8	11.6
Copper	µg/g	180	1.0	23.6
Lead	µg/g	120	1	12
Molybdenum	µg/g	6.9	0.5	0.5
Nickel	µg/g	130	1	24
Selenium	µg/g	2.4	0.8	<0.8
Silver	µg/g	25	0.5	<0.5
Thallium	µg/g	1	0.5	<0.5
Uranium	µg/g	23	0.50	0.80
Vanadium	µg/g	86	2.0	28.2
Zinc	µg/g	340	5	59
Chromium, Hexavalent	µg/g	10	0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040
Mercury	µg/g	1.8	0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.226
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	5	N/A	1.67
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.67

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6815698 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

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AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	**Unit**	**G / S**	**RDL**	**6815698**
Naphthalene	µg/g	0.75	0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05
Acenaphthene	µg/g	58	0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05
Phenanthrene	µg/g	7.8	0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05
Benzo(a)anthracene	µg/g	0.63	0.05	<0.05
Chrysene	µg/g	7.8	0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.48	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05
Benzo(g,h,i)perylene	µg/g	7.8	0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	3.4	0.05	<0.05
Moisture Content	%		0.1	18.3
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		75
Acridine-d9	%	50-140		80
Terphenyl-d14	%	50-140		90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6815698 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	**Unit**	**G / S**	**RDL**	**6815698**
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1
Moisture Content	%		0.1	18.3
Surrogate	**Unit**	**Acceptable Limits**		
Decachlorobiphenyl	%	50-140		106

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6815698 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	**Unit**	**G / S**	**RDL**	**6815698**
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
F2 (C10 to C16)	µg/g	150	10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10
F3 (C16 to C34)	µg/g	1300	50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50
F4 (C34 to C50)	µg/g	5600	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	5600	50	NA
Moisture Content	%		0.1	16.5
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		106
Terphenyl	%	60-140		90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6815698 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Certificate of Analysis

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	Unit	G / S	RDL	6815698
Dichlorodifluoromethane	µg/g	25	0.05	<0.05
Vinyl Chloride	ug/g	0.022	0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05
Acetone	ug/g	28	0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05
Methylene Chloride	ug/g	0.96	0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.75	0.05	<0.05
Methyl tert-butyl Ether	ug/g	1.4	0.05	<0.05
1,1-Dichloroethane	ug/g	11	0.02	<0.02
Methyl Ethyl Ketone	ug/g	44	0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	30	0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03
1,1,1-Trichloroethane	ug/g	3.4	0.05	<0.05
Carbon Tetrachloride	ug/g	0.12	0.05	<0.05
Benzene	ug/g	0.17	0.02	<0.02
1,2-Dichloropropane	ug/g	0.085	0.03	<0.03
Trichloroethylene	ug/g	0.52	0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05
Methyl Isobutyl Ketone	ug/g	4.3	0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04
Toluene	ug/g	6	0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04
Tetrachloroethylene	ug/g	2.3	0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05
Ethylbenzene	ug/g	15	0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05

Certified By: R. Chakraberty

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2025-06-13 **DATE REPORTED: 2025-06-19**

		SAMPLE DESCRIPTION:		BH13 SS6
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2025-06-10
Parameter	**Unit**	**G / S**	**RDL**	**6815698**
Bromoform	ug/g	0.26	0.05	<0.05
Styrene	ug/g	2.2	0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g	6	0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.097	0.05	<0.05
1,2-Dichlorobenzene	ug/g	4.3	0.05	<0.05
Xylenes (Total)	ug/g	25	0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.083	0.05	<0.05
n-Hexane	µg/g	34	0.05	<0.05
Moisture Content	%		0.1	16.5
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	50-140		106
4-Bromofluorobenzene	% Recovery	50-140		101

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 S RPI MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6815698 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: R. Chakraberty

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

Soil Analysis

RPT Date: Jun 19, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6812669		<0.8	<0.8	NA	< 0.8	100%	70%	130%	96%	80%	120%	79%	70%	130%
Arsenic	6812669		3	3	NA	< 1	103%	70%	130%	103%	80%	120%	99%	70%	130%
Barium	6812669		105	105	0.0%	< 2.0	101%	70%	130%	96%	80%	120%	112%	70%	130%
Beryllium	6812669		0.5	0.5	NA	< 0.5	88%	70%	130%	102%	80%	120%	92%	70%	130%
Boron	6812669		10	9	NA	< 5	92%	70%	130%	95%	80%	120%	86%	70%	130%
Boron (Hot Water Soluble)	6807288		<0.10	<0.10	NA	< 0.10	94%	60%	140%	98%	70%	130%	99%	60%	140%
Cadmium	6812669		<0.5	<0.5	NA	< 0.5	96%	70%	130%	102%	80%	120%	94%	70%	130%
Chromium	6812669		20	19	NA	< 5	99%	70%	130%	103%	80%	120%	99%	70%	130%
Cobalt	6812669		9.4	9.1	3.2%	< 0.8	92%	70%	130%	105%	80%	120%	98%	70%	130%
Copper	6812669		33.0	33.3	0.9%	< 1.0	87%	70%	130%	103%	80%	120%	NA	70%	130%
Lead	6812669		7	7	0.0%	< 1	94%	70%	130%	107%	80%	120%	97%	70%	130%
Molybdenum	6812669		<0.5	<0.5	NA	< 0.5	98%	70%	130%	105%	80%	120%	109%	70%	130%
Nickel	6812669		18	18	0.0%	< 1	92%	70%	130%	100%	80%	120%	92%	70%	130%
Selenium	6812669		<0.8	<0.8	NA	< 0.8	97%	70%	130%	107%	80%	120%	109%	70%	130%
Silver	6812669		<0.5	<0.5	NA	< 0.5	86%	70%	130%	97%	80%	120%	87%	70%	130%
Thallium	6812669		0.5	0.6	NA	2.3	100%	70%	130%	113%	80%	120%	102%	70%	130%
Uranium	6812669		0.53	<0.50	NA	< 0.50	103%	70%	130%	105%	80%	120%	103%	70%	130%
Vanadium	6812669		28.0	27.2	2.9%	< 2.0	96%	70%	130%	102%	80%	120%	107%	70%	130%
Zinc	6812669		38	37	2.7%	< 5	96%	70%	130%	102%	80%	120%	96%	70%	130%
Chromium, Hexavalent	6815698	6815698	<0.2	<0.2	NA	< 0.2	101%	70%	130%	94%	80%	120%	74%	70%	130%
Cyanide, WAD	6813073		<0.040	<0.040	NA	< 0.040	98%	70%	130%	95%	80%	120%	90%	70%	130%
Mercury	6812669		<0.10	<0.10	NA	< 0.10	94%	70%	130%	98%	80%	120%	99%	70%	130%
Electrical Conductivity (2:1)	6812669		0.163	0.155	5.1%	< 0.005	102%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	6812669		0.228	0.224	1.8%	NA	NA								
pH, 2:1 CaCl2 Extraction	6813073		6.59	6.63	0.6%		98%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike: Spike level < native concentration. Matrix spike acceptance limits do not apply.

Certified By:

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 25H309956
PROJECT: SM 220141-G
ATTENTION TO: Joanne Jackson
SAMPLING SITE:Main St E & Prince St, Milton, ON
SAMPLED BY:Joanne Jackson

Trace Organics Analysis

RPT Date: Jun 19, 2025

PARAMETER	Batch	Sample Id	DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
			Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6812817		<0.05	<0.05	NA	< 0.05	115%	50%	140%	98%	50%	140%	100%	50%	140%
Acenaphthylene	6812817		<0.05	<0.05	NA	< 0.05	110%	50%	140%	90%	50%	140%	88%	50%	140%
Acenaphthene	6812817		<0.05	<0.05	NA	< 0.05	105%	50%	140%	88%	50%	140%	95%	50%	140%
Fluorene	6812817		<0.05	<0.05	NA	< 0.05	104%	50%	140%	98%	50%	140%	100%	50%	140%
Phenanthrene	6812817		<0.05	<0.05	NA	< 0.05	90%	50%	140%	90%	50%	140%	90%	50%	140%
Anthracene	6812817		<0.05	<0.05	NA	< 0.05	106%	50%	140%	98%	50%	140%	93%	50%	140%
Fluoranthene	6812817		<0.05	<0.05	NA	< 0.05	102%	50%	140%	98%	50%	140%	100%	50%	140%
Pyrene	6812817		<0.05	<0.05	NA	< 0.05	105%	50%	140%	100%	50%	140%	98%	50%	140%
Benzo(a)anthracene	6812817		<0.05	<0.05	NA	< 0.05	80%	50%	140%	98%	50%	140%	90%	50%	140%
Chrysene	6812817		<0.05	<0.05	NA	< 0.05	121%	50%	140%	100%	50%	140%	88%	50%	140%
Benzo(b)fluoranthene	6812817		<0.05	<0.05	NA	< 0.05	71%	50%	140%	98%	50%	140%	98%	50%	140%
Benzo(k)fluoranthene	6812817		<0.05	<0.05	NA	< 0.05	110%	50%	140%	93%	50%	140%	95%	50%	140%
Benzo(a)pyrene	6812817		<0.05	<0.05	NA	< 0.05	95%	50%	140%	98%	50%	140%	95%	50%	140%
Indeno(1,2,3-cd)pyrene	6812817		<0.05	<0.05	NA	< 0.05	87%	50%	140%	90%	50%	140%	90%	50%	140%
Dibenz(a,h)anthracene	6812817		<0.05	<0.05	NA	< 0.05	99%	50%	140%	88%	50%	140%	90%	50%	140%
Benzo(g,h,i)perylene	6812817		<0.05	<0.05	NA	< 0.05	94%	50%	140%	95%	50%	140%	95%	50%	140%
O. Reg. 153(511) - PCBs (Soil)															
Polychlorinated Biphenyls	6816041		< 0.1	< 0.1	NA	< 0.1	105%	60%	140%	92%	60%	140%	92%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	6741409		<0.05	<0.05	NA	< 0.05	65%	60%	140%	69%	50%	140%	95%	50%	140%
Vinyl Chloride	6741409		<0.02	<0.02	NA	< 0.02	81%	60%	140%	85%	50%	140%	106%	50%	140%
Bromomethane	6741409		<0.05	<0.05	NA	< 0.05	105%	60%	140%	89%	50%	140%	73%	50%	140%
Trichlorofluoromethane	6741409		<0.05	<0.05	NA	< 0.05	87%	60%	140%	82%	50%	140%	109%	50%	140%
Acetone	6741409		<0.50	<0.50	NA	< 0.50	96%	60%	140%	77%	50%	140%	70%	50%	140%
1,1-Dichloroethylene	6741409		<0.05	<0.05	NA	< 0.05	95%	60%	140%	78%	60%	130%	65%	50%	140%
Methylene Chloride	6741409		<0.05	<0.05	NA	< 0.05	96%	60%	140%	95%	60%	130%	101%	50%	140%
Trans- 1,2-Dichloroethylene	6741409		<0.05	<0.05	NA	< 0.05	81%	60%	140%	95%	60%	130%	90%	50%	140%
Methyl tert-butyl Ether	6741409		<0.05	<0.05	NA	< 0.05	69%	60%	140%	92%	60%	130%	99%	50%	140%
1,1-Dichloroethane	6741409		<0.02	<0.02	NA	< 0.02	92%	60%	140%	96%	60%	130%	113%	50%	140%
Methyl Ethyl Ketone	6741409		<0.50	<0.50	NA	< 0.50	100%	60%	140%	92%	50%	140%	60%	50%	140%
Cis- 1,2-Dichloroethylene	6741409		<0.02	<0.02	NA	< 0.02	83%	60%	140%	89%	60%	130%	118%	50%	140%
Chloroform	6741409		<0.04	<0.04	NA	< 0.04	85%	60%	140%	76%	60%	130%	83%	50%	140%
1,2-Dichloroethane	6741409		<0.03	<0.03	NA	< 0.03	69%	60%	140%	113%	60%	130%	97%	50%	140%
1,1,1-Trichloroethane	6741409		<0.05	<0.05	NA	< 0.05	119%	60%	140%	118%	60%	130%	80%	50%	140%
Carbon Tetrachloride	6741409		<0.05	<0.05	NA	< 0.05	69%	60%	140%	84%	60%	130%	106%	50%	140%
Benzene	6741409		<0.02	<0.02	NA	< 0.02	64%	60%	140%	98%	60%	130%	87%	50%	140%
1,2-Dichloropropane	6741409		<0.03	<0.03	NA	< 0.03	96%	60%	140%	119%	60%	130%	103%	50%	140%
Trichloroethylene	6741409		<0.03	<0.03	NA	< 0.03	80%	60%	140%	110%	60%	130%	95%	50%	140%

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Quality Assurance

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AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

Trace Organics Analysis (Continued)

RPT Date: Jun 19, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Bromodichloromethane	6741409		<0.05	<0.05	NA	< 0.05	76%	60%	140%	92%	60%	130%	79%	50%	140%
Methyl Isobutyl Ketone	6741409		<0.50	<0.50	NA	< 0.50	92%	60%	140%	73%	50%	140%	65%	50%	140%
1,1,2-Trichloroethane	6741409		<0.04	<0.04	NA	< 0.04	109%	60%	140%	105%	60%	130%	77%	50%	140%
Toluene	6741409		<0.05	<0.05	NA	< 0.05	67%	60%	140%	113%	60%	130%	84%	50%	140%
Dibromochloromethane	6741409		<0.05	<0.05	NA	< 0.05	101%	60%	140%	114%	60%	130%	76%	50%	140%
Ethylene Dibromide	6741409		<0.04	<0.04	NA	< 0.04	93%	60%	140%	108%	60%	130%	77%	50%	140%
Tetrachloroethylene	6741409		<0.05	<0.05	NA	< 0.05	96%	60%	140%	110%	60%	130%	78%	50%	140%
1,1,1,2-Tetrachloroethane	6741409		<0.04	<0.04	NA	< 0.04	92%	60%	140%	84%	60%	130%	64%	50%	140%
Chlorobenzene	6741409		<0.05	<0.05	NA	< 0.05	106%	60%	140%	105%	60%	130%	92%	50%	140%
Ethylbenzene	6741409		<0.05	<0.05	NA	< 0.05	92%	60%	140%	107%	60%	130%	91%	50%	140%
m & p-Xylene	6741409		<0.05	<0.05	NA	< 0.05	110%	60%	140%	115%	60%	130%	109%	50%	140%
Bromoform	6741409		<0.05	<0.05	NA	< 0.05	99%	60%	140%	118%	60%	130%	99%	50%	140%
Styrene	6741409		<0.05	<0.05	NA	< 0.05	95%	60%	140%	85%	60%	130%	113%	50%	140%
1,1,2,2-Tetrachloroethane	6741409		<0.05	<0.05	NA	< 0.05	70%	60%	140%	114%	60%	130%	70%	50%	140%
o-Xylene	6741409		<0.05	<0.05	NA	< 0.05	109%	60%	140%	109%	60%	130%	87%	50%	140%
1,3-Dichlorobenzene	6741409		<0.05	<0.05	NA	< 0.05	119%	60%	140%	116%	60%	130%	100%	50%	140%
1,4-Dichlorobenzene	6741409		<0.05	<0.05	NA	< 0.05	113%	60%	140%	109%	60%	130%	87%	50%	140%
1,2-Dichlorobenzene	6741409		<0.05	<0.05	NA	< 0.05	113%	60%	140%	99%	60%	130%	75%	50%	140%
n-Hexane	6741409		<0.05	<0.05	NA	< 0.05	64%	60%	140%	77%	60%	130%	97%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 to C10)	6814715		<5	<5	NA	< 5	94%	80%	120%	105%	60%	140%	90%	60%	140%
F2 (C10 to C16)	6812958		< 10	< 10	NA	< 10	102%	60%	140%	102%	60%	140%	101%	60%	140%
F3 (C16 to C34)	6812958		< 50	< 50	NA	< 50	107%	60%	140%	117%	60%	140%	122%	60%	140%
F4 (C34 to C50)	6812958		< 50	< 50	NA	< 50	91%	60%	140%	86%	60%	140%	89%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: R. Chakraborty

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID

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FAX (905)712-5122
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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25H309956

PROJECT: SM 220141-G

ATTENTION TO: Joanne Jackson

SAMPLING SITE:Main St E & Prince St, Milton, ON

SAMPLED BY:Joanne Jackson

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
12.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody ... water consumed by humans)

Laboratory Use Only

Work Order #: 25H309956
Cooler Quantity: 1 med
Arrival Temperatures: 9.1 | 8.4 | 8.7
~~Depot~~ Temperatures: 5.6 | 5.9 | 6.0
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: On ice

Report Information:

Company: Soilmat Engineers & Consultants
Contact: Joanne Jackson / Peter Markesic
Address: 401 Grays Rd, Hamilton, ON
Phone: 647 239 3107 Fax:
Reports to be sent to:
1. Email: jjackson@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 1 *(Indicate One)* ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture *(Check One)* ☐ Coarse ☐ Fine

☒ ~~Regulation 406~~ — Table *(Indicate One)* ☐ Ind/Com ☐ Res/Park ☐ Agriculture
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region
☐ Prov. Water Quality Objectives (PWQO)
☐ Other — *Indicate One*

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply) ☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: SM 220141-G7
Site Location: Main St E & Prince St, Milton, ON
Sampled By: Joanne Jackson
AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Legal Sample ☐

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company: Soil Mat
Contact:
Address:
Email:

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y / N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: VOC	O. Reg 153: PAHs	O. Reg 153: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 558: Landfill Disposal Characterization TCLP: TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. BH13 SS	June/10/2025	AM PM	3(S)(V)	S			✓		✓		✓	✓						
2.		AM PM																
3.		AM PM																
4.		AM PM																
5.		AM PM																
6.		AM PM																
7.		AM PM																
8.		AM PM																
9.		AM PM																
10.		AM PM																
11.		AM PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Peter Markesic [signature]	June 13/25	2:59 PM	Chris Tahme [signature]	06/13/25	2:54pm
Chris Tahme [signature]	06/13/25	3pm	Tiffin [signature]	June 13	4:25pm

Page 1 of 1

Nº: T - 166662

Appendix ‘C’

1. AGAT Certificate of Analysis – Groundwater

AGAT Laboratories

5835 COOPERS AVENUE
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http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Geena Gilmour

PROJECT: 220141

AGAT WORK ORDER: 24T229382

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

DATE REPORTED: Dec 12, 2024

PAGES (INCLUDING COVER): 17

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

AGAT Laboratories
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2024-12-06 **DATE REPORTED: 2024-12-12**

		SAMPLE DESCRIPTION:		MW1-S1	MW4-S1	MW5-S1	MW8-S1	MW10-S1	MW12-S1	DUP1
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**6387211**	**6387219**	**6387220**	**6387221**	**6387222**	**6387223**	**6387224**
Naphthalene	µg/L	6400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	1700	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Napthalene	µg/L	1800	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Sediment				2	2	2	2	2	2	2
Surrogate	**Unit**	**Acceptable Limits**								
Naphthalene-d8	%	50-140		107	137	115	106	121	133	136
Acridine-d9	%	50-140		125	77	80	85	84	99	106
Terphenyl-d14	%	50-140		88	138	124	116	103	122	106

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6387211-6387224 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - PCBs (Water)

DATE RECEIVED: 2024-12-06

DATE REPORTED: 2024-12-12

		SAMPLE DESCRIPTION:		MW1-S1	MW4-S1	MW10-S1
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05 12:00
Parameter	**Unit**	**G / S**	**RDL**	**6387211**	**6387219**	**6387222**
Polychlorinated Biphenyls	µg/L	15	0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**				
Decachlorobiphenyl	%	60-140		88	79	78

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6387211-6387222 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)

DATE RECEIVED: 2024-12-06 **DATE REPORTED: 2024-12-12**

				SAMPLE DESCRIPTION:	MW1-S1	MW4-S1	MW5-S1	MW8-S1	MW10-S1	MW12-S1	DUP1
				SAMPLE TYPE:	Water	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	2024-12-05	2024-12-05	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00
Parameter	**Unit**	**G / S**	**RDL**		**6387211**	**6387219**	**6387220**	**6387221**	**6387222**	**6387223**	**6387224**
F1 (C6 to C10)	µg/L	750	25		<25	<25	<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25		<25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100		<100	<100	<100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100		<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100		<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L		100		<100	<100	<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100		<100	<100	<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500		NA	NA	NA	NA	NA	NA	NA
Sediment					2	2	2	2	2	2	2
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	%	50-140			98	92	97	93	95	96	94
Terphenyl	% Recovery	60-140			88	88	79	75	96	86	97

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6387211-6387224 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - VOCs (with PHC) (Water)

DATE RECEIVED: 2024-12-06

DATE REPORTED: 2024-12-12

		SAMPLE DESCRIPTION:		MW1-S1	MW4-S1	MW5-S1	MW8-S1	MW10-S1	MW12-S1	DUP1
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		2024-12-05	2024-12-05	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00
Parameter	Unit	G / S	RDL	6387211	6387219	6387220	6387221	6387222	6387223	6387224
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	56	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	17	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5500	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	3100	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1500000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	12	0.20	<0.20	<0.20	3.38	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	6700	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	8.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	430	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	140	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	580000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	30	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	0.34	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.83	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	28	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - VOCs (with PHC) (Water)

DATE RECEIVED: 2024-12-06 **DATE REPORTED: 2024-12-12**

				SAMPLE DESCRIPTION:	MW1-S1	MW4-S1	MW5-S1	MW8-S1	MW10-S1	MW12-S1	DUP1
				SAMPLE TYPE:	Water	Water	Water	Water	Water	Water	Water
				DATE SAMPLED:	2024-12-05	2024-12-05	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00
Parameter	**Unit**	**G / S**	**RDL**		**6387211**	**6387219**	**6387220**	**6387221**	**6387222**	**6387223**	**6387224**
m & p-Xylene	µg/L		0.20		<0.20	<0.20	0.31	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	770	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	9100	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	15	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10		<0.10	<0.10	0.19	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	67	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	9600	0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	45	0.30		<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20		<0.20	<0.20	0.50	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	520	0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140			98	92	97	93	95	96	94
4-Bromofluorobenzene	% Recovery	50-140			98	96	101	93	94	98	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6387211-6387224 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

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Certificate of Analysis

AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2024-12-06

DATE REPORTED: 2024-12-12

SAMPLE DESCRIPTION:				MW1-S1	MW4-S1		MW5-S1		MW8-S1	MW10-S1	MW12-S1
SAMPLE TYPE:				Water	Water		Water		Water	Water	Water
DATE SAMPLED:				2024-12-05	2024-12-05		2024-12-05 12:00		2024-12-05 12:00	2024-12-05 12:00	2024-12-05 12:00
Parameter	Unit	G / S	RDL	6387211	6387219	RDL	6387220	RDL	6387221	6387222	6387223
Dissolved Antimony	µg/L	20000	1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	1.9	1.2	1.0	4.7	1.0	1.8	2.3	1.4
Dissolved Barium	µg/L	29000	2.0	176	124	2.0	84.8	2.0	99.5	53.6	55.9
Dissolved Beryllium	µg/L	67	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	<0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	636	356	10.0	574	10.0	414	175	248
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.20	<0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	<2.0	2.0	<2.0	2.0	<2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	0.80	1.24	0.50	1.00	0.50	2.33	5.29	10.2
Dissolved Copper	µg/L	87	1.0	1.3	1.2	1.0	1.2	1.0	<1.0	1.2	1.2
Dissolved Lead	µg/L	25	0.50	<0.50	0.66	0.50	1.19	0.50	<0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	10.9	4.40	0.50	10.2	0.50	7.18	4.25	5.62
Dissolved Nickel	µg/L	490	1.0	1.7	4.1	1.0	3.6	1.0	3.6	6.2	9.7
Dissolved Selenium	µg/L	63	1.0	1.5	3.8	1.0	2.7	1.0	1.2	1.3	1.9
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.20	<0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	<0.30	0.30	<0.30	0.30	<0.30	<0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	4.00	4.34	0.50	7.10	0.50	5.65	6.20	8.10
Dissolved Vanadium	µg/L	250	0.40	1.03	0.43	0.40	2.29	0.40	1.58	<0.40	1.30
Dissolved Zinc	µg/L	1100	5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	<5.0	<5.0
Mercury	µg/L	2.8	0.02	<0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	140	2.000	<2.000	<2.000	2.000	<2.000	2.000	<2.000	<2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2	<2	2	<2	2	<2	<2	<2
Dissolved Sodium	µg/L	2300000	50	83000	71600	100	108000	50	37700	47300	42400
Chloride	µg/L	2300000	100	201000	265000	100	531000	100	52100	146000	141000
Electrical Conductivity	uS/cm	NA	2	1400	1720	2	2890	2	1170	1240	1390
pH	pH Units		NA	7.75	7.65	NA	7.75	NA	7.87	7.71	7.72

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AGAT WORK ORDER: 24T229382

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2024-12-06

DATE REPORTED: 2024-12-12

		SAMPLE DESCRIPTION:		DUP1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2024-12-05 12:00
Parameter	Unit	G / S	RDL	6387224
Dissolved Antimony	µg/L	20000	1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	1.6
Dissolved Barium	µg/L	29000	2.0	100
Dissolved Beryllium	µg/L	67	0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	416
Dissolved Cadmium	µg/L	2.7	0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	1.97
Dissolved Copper	µg/L	87	1.0	<1.0
Dissolved Lead	µg/L	25	0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	7.16
Dissolved Nickel	µg/L	490	1.0	3.3
Dissolved Selenium	µg/L	63	1.0	2.3
Dissolved Silver	µg/L	1.5	0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	5.51
Dissolved Vanadium	µg/L	250	0.40	1.36
Dissolved Zinc	µg/L	1100	5.0	<5.0
Mercury	µg/L	2.8	0.02	<0.02
Chromium VI	µg/L	140	2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2
Dissolved Sodium	µg/L	2300000	50	37500
Chloride	µg/L	2300000	100	51800
Electrical Conductivity	uS/cm	NA	2	1170
pH	pH Units		NA	7.90

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2024-12-06 **DATE REPORTED: 2024-12-12**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6387211-6387224 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results

Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
NIVINE BASILY
CHEMIST

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T229382

PROJECT: 220141

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

Trace Organics Analysis

RPT Date: Dec 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6 to C10)	6385566		<25	<25	NA	< 25	88%	60%	140%	91%	60%	140%	82%	60%	140%
F2 (C10 to C16)	6383192		< 100	< 100	NA	< 100	116%	60%	140%	78%	60%	140%	85%	60%	140%
F3 (C16 to C34)	6383192		< 100	< 100	NA	< 100	125%	60%	140%	82%	60%	140%	61%	60%	140%
F4 (C34 to C50)	6383192		< 100	< 100	NA	< 100	86%	60%	140%	99%	60%	140%	107%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6383805		<0.20	<0.20	NA	< 0.20	91%	50%	140%	73%	50%	140%	94%	50%	140%
Acenaphthylene	6383805		<0.20	<0.20	NA	< 0.20	92%	50%	140%	73%	50%	140%	93%	50%	140%
Acenaphthene	6383805		<0.20	<0.20	NA	< 0.20	91%	50%	140%	79%	50%	140%	102%	50%	140%
Fluorene	6383805		<0.20	<0.20	NA	< 0.20	97%	50%	140%	83%	50%	140%	106%	50%	140%
Phenanthrene	6383805		<0.10	<0.10	NA	< 0.10	101%	50%	140%	87%	50%	140%	114%	50%	140%
Anthracene	6383805		<0.10	<0.10	NA	< 0.10	77%	50%	140%	81%	50%	140%	108%	50%	140%
Fluoranthene	6383805		<0.20	<0.20	NA	< 0.20	106%	50%	140%	88%	50%	140%	111%	50%	140%
Pyrene	6383805		<0.20	<0.20	NA	< 0.20	107%	50%	140%	89%	50%	140%	110%	50%	140%
Benzo(a)anthracene	6383805		<0.20	<0.20	NA	< 0.20	97%	50%	140%	75%	50%	140%	89%	50%	140%
Chrysene	6383805		<0.10	<0.10	NA	< 0.10	104%	50%	140%	72%	50%	140%	106%	50%	140%
Benzo(b)fluoranthene	6383805		<0.10	<0.10	NA	< 0.10	97%	50%	140%	88%	50%	140%	86%	50%	140%
Benzo(k)fluoranthene	6383805		<0.10	<0.10	NA	< 0.10	104%	50%	140%	97%	50%	140%	98%	50%	140%
Benzo(a)pyrene	6383805		<0.01	<0.01	NA	< 0.01	87%	50%	140%	84%	50%	140%	84%	50%	140%
Indeno(1,2,3-cd)pyrene	6383805		<0.20	<0.20	NA	< 0.20	86%	50%	140%	79%	50%	140%	82%	50%	140%
Dibenz(a,h)anthracene	6383805		<0.20	<0.20	NA	< 0.20	88%	50%	140%	74%	50%	140%	80%	50%	140%
Benzo(g,h,i)perylene	6383805		<0.20	<0.20	NA	< 0.20	90%	50%	140%	79%	50%	140%	89%	50%	140%
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	6385566		<0.40	<0.40	NA	< 0.40	91%	50%	140%	102%	50%	140%	77%	50%	140%
Vinyl Chloride	6385566		<0.17	<0.17	NA	< 0.17	97%	50%	140%	74%	50%	140%	119%	50%	140%
Bromomethane	6385566		<0.20	<0.20	NA	< 0.20	80%	50%	140%	60%	50%	140%	52%	50%	140%
Trichlorofluoromethane	6385566		<0.40	<0.40	NA	< 0.40	88%	50%	140%	112%	50%	140%	69%	50%	140%
Acetone	6385566		<1.0	<1.0	NA	< 1.0	88%	50%	140%	92%	50%	140%	98%	50%	140%
1,1-Dichloroethylene	6385566		<0.30	<0.30	NA	< 0.30	75%	50%	140%	86%	60%	130%	101%	50%	140%
Methylene Chloride	6385566		<0.30	<0.30	NA	< 0.30	95%	50%	140%	78%	60%	130%	106%	50%	140%
trans- 1,2-Dichloroethylene	6385566		<0.20	<0.20	NA	< 0.20	84%	50%	140%	80%	60%	130%	117%	50%	140%
Methyl tert-butyl ether	6385566		<0.20	<0.20	NA	< 0.20	101%	50%	140%	114%	60%	130%	104%	50%	140%
1,1-Dichloroethane	6385566		<0.30	<0.30	NA	< 0.30	86%	50%	140%	79%	60%	130%	94%	50%	140%
Methyl Ethyl Ketone	6385566		<1.0	<1.0	NA	< 1.0	89%	50%	140%	85%	50%	140%	88%	50%	140%
cis- 1,2-Dichloroethylene	6385566		<0.20	<0.20	NA	< 0.20	86%	50%	140%	77%	60%	130%	86%	50%	140%
Chloroform	6385566		<0.20	<0.20	NA	< 0.20	94%	50%	140%	79%	60%	130%	90%	50%	140%
1,2-Dichloroethane	6385566		<0.20	<0.20	NA	< 0.20	97%	50%	140%	77%	60%	130%	87%	50%	140%
1,1,1-Trichloroethane	6385566		<0.30	<0.30	NA	< 0.30	91%	50%	140%	76%	60%	130%	96%	50%	140%
Carbon Tetrachloride	6385566		<0.20	<0.20	NA	< 0.20	88%	50%	140%	71%	60%	130%	89%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T229382

PROJECT: 220141

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

Trace Organics Analysis (Continued)

RPT Date: Dec 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	6385566		<0.20	<0.20	NA	< 0.20	89%	50%	140%	75%	60%	130%	85%	50%	140%
1,2-Dichloropropane	6385566		<0.20	<0.20	NA	< 0.20	96%	50%	140%	72%	60%	130%	84%	50%	140%
Trichloroethylene	6385566		<0.20	<0.20	NA	< 0.20	90%	50%	140%	77%	60%	130%	83%	50%	140%
Bromodichloromethane	6385566		<0.20	<0.20	NA	< 0.20	101%	50%	140%	72%	60%	130%	88%	50%	140%
Methyl Isobutyl Ketone	6385566		<1.0	<1.0	NA	< 1.0	115%	50%	140%	83%	50%	140%	87%	50%	140%
1,1,2-Trichloroethane	6385566		<0.20	<0.20	NA	< 0.20	108%	50%	140%	96%	60%	130%	103%	50%	140%
Toluene	6385566		<0.20	<0.20	NA	< 0.20	105%	50%	140%	87%	60%	130%	96%	50%	140%
Dibromochloromethane	6385566		<0.10	<0.10	NA	< 0.10	108%	50%	140%	82%	60%	130%	106%	50%	140%
Ethylene Dibromide	6385566		<0.10	<0.10	NA	< 0.10	107%	50%	140%	80%	60%	130%	99%	50%	140%
Tetrachloroethylene	6385566		<0.20	<0.20	NA	< 0.20	99%	50%	140%	85%	60%	130%	93%	50%	140%
1,1,1,2-Tetrachloroethane	6385566		<0.10	<0.10	NA	< 0.10	116%	50%	140%	75%	60%	130%	97%	50%	140%
Chlorobenzene	6385566		<0.10	<0.10	NA	< 0.10	109%	50%	140%	84%	60%	130%	89%	50%	140%
Ethylbenzene	6385566		<0.10	<0.10	NA	< 0.10	106%	50%	140%	81%	60%	130%	94%	50%	140%
m & p-Xylene	6385566		<0.20	<0.20	NA	< 0.20	108%	50%	140%	86%	60%	130%	100%	50%	140%
Bromoform	6385566		<0.10	<0.10	NA	< 0.10	106%	50%	140%	92%	60%	130%	100%	50%	140%
Styrene	6385566		<0.10	<0.10	NA	< 0.10	113%	50%	140%	88%	60%	130%	104%	50%	140%
1,1,2,2-Tetrachloroethane	6385566		<0.10	<0.10	NA	< 0.10	103%	50%	140%	76%	60%	130%	102%	50%	140%
o-Xylene	6385566		<0.10	<0.10	NA	< 0.10	114%	50%	140%	91%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	6385566		<0.10	<0.10	NA	< 0.10	114%	50%	140%	99%	60%	130%	104%	50%	140%
1,4-Dichlorobenzene	6385566		<0.10	<0.10	NA	< 0.10	118%	50%	140%	98%	60%	130%	99%	50%	140%
1,2-Dichlorobenzene	6385566		<0.10	<0.10	NA	< 0.10	117%	50%	140%	97%	60%	130%	96%	50%	140%
n-Hexane	6385566		<0.20	<0.20	NA	< 0.20	69%	50%	140%	69%	60%	130%	90%	50%	140%
O. Reg. 153(511) - PCBs (Water)															
Polychlorinated Biphenyls	6367519		< 0.1	< 0.1	NA	< 0.1	98%	50%	140%	93%	50%	140%	83%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T229382

PROJECT: 220141

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

Water Analysis

RPT Date: Dec 12, 2024			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	6392024		<1.0	<1.0	NA	< 1.0	102%	70%	130%	101%	80%	120%	101%	70%	130%
Dissolved Arsenic	6392024		1.4	1.5	NA	< 1.0	100%	70%	130%	106%	80%	120%	106%	70%	130%
Dissolved Barium	6392024		257	256	0.4%	< 2.0	101%	70%	130%	98%	80%	120%	102%	70%	130%
Dissolved Beryllium	6392024		<0.50	<0.50	NA	< 0.50	103%	70%	130%	106%	80%	120%	104%	70%	130%
Dissolved Boron	6392024		135	133	1.5%	< 10.0	101%	70%	130%	101%	80%	120%	103%	70%	130%
Dissolved Cadmium	6392024		<0.20	<0.20	NA	< 0.20	100%	70%	130%	99%	80%	120%	99%	70%	130%
Dissolved Chromium	6392024		<2.0	<2.0	NA	< 2.0	98%	70%	130%	102%	80%	120%	98%	70%	130%
Dissolved Cobalt	6392024		<0.50	<0.50	NA	< 0.50	97%	70%	130%	107%	80%	120%	98%	70%	130%
Dissolved Copper	6392024		<1.0	<1.0	NA	< 1.0	100%	70%	130%	99%	80%	120%	97%	70%	130%
Dissolved Lead	6392024		<0.50	<0.50	NA	< 0.50	96%	70%	130%	94%	80%	120%	92%	70%	130%
Dissolved Molybdenum	6392024		11.7	12.9	9.8%	< 0.50	101%	70%	130%	106%	80%	120%	104%	70%	130%
Dissolved Nickel	6392024		1.5	<1.0	NA	< 1.0	97%	70%	130%	107%	80%	120%	98%	70%	130%
Dissolved Selenium	6392024		1.3	<1.0	NA	< 1.0	97%	70%	130%	102%	80%	120%	101%	70%	130%
Dissolved Silver	6392024		<0.20	<0.20	NA	< 0.20	95%	70%	130%	103%	80%	120%	95%	70%	130%
Dissolved Thallium	6392024		<0.30	<0.30	NA	< 0.30	98%	70%	130%	96%	80%	120%	95%	70%	130%
Dissolved Uranium	6392024		<0.50	<0.50	NA	< 0.50	100%	70%	130%	100%	80%	120%	98%	70%	130%
Dissolved Vanadium	6392024		<0.40	<0.40	NA	< 0.40	106%	70%	130%	105%	80%	120%	101%	70%	130%
Dissolved Zinc	6392024		<5.0	<5.0	NA	< 5.0	102%	70%	130%	107%	80%	120%	105%	70%	130%
Mercury	6387211	6387211	<0.02	<0.02	NA	< 0.02	99%	70%	130%	98%	80%	120%	98%	70%	130%
Chromium VI	6387211	6387211	<2.000	<2.000	NA	< 2	98%	70%	130%	83%	80%	120%	89%	70%	130%
Cyanide, WAD	6387211	6387211	<2	<2	NA	< 2	100%	70%	130%	106%	80%	120%	106%	70%	130%
Dissolved Sodium	6392024		21400	20900	2.4%	< 50	115%	70%	130%	113%	80%	120%	108%	70%	130%
Chloride	6383768		12500	12300	1.6%	< 100	96%	70%	130%	98%	80%	120%	101%	70%	130%
Electrical Conductivity	6387211	6387211	1400	1400	0.0%	< 2	102%	90%	110%						
pH	6387211	6387211	7.75	7.82	0.9%	NA	100%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 24T229382

PROJECT: 220141

ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Napthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
F1 (C6 to C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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SAMPLING SITE:Main St E & Prince St, Milton

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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ATTENTION TO: Geena Gilmour

SAMPLING SITE:Main St E & Prince St, Milton

SAMPLED BY:GG / BS

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

AGAT Laboratories

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Have feedback? Scan here for a quick survey!

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 24T229382

Cooler Quantity: 2

Arrival Temperatures: 3.8 | 4.9 | 4.8

~~Depot~~ Temperatures: 5.2 | 5.5 | 5.8

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes:

Report Information:

Company: Soil-Mat

Contact: Geena Gilmour

Address: 401 Grays Rd

Phone: Fax:

Reports to be sent to:

1. Email: ggilmour@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 — Table 1 (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

Soil Texture (Check One): ☐ Coarse ☐ Fine

☐ Regulation 406 — Table ____ (Indicate One) — ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other — Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 220141

Site Location: Main St E & Prince St, Milton.

Sampled By: GG + BS.

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:

Contact:

Address:

Email:

Legal Sample ☐

Sample Matrix Legend

GW	Ground Water	SD	Sediment
O	Oil	SW	Surface Water
P	Paint	R	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	EC, SAR	Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. MW1-S1	12/5/24	AM/PM	18	GW			X		X	X	X	X						
2. MW4-S1	↓	AM/PM	18	↓			X		X	X	X	X						
3. MW5-S1		AM/PM	16				X		X	X	X							
4. MW8-S1		AM/PM	16				X		X	X	X							
5. MW10-S1		AM/PM	18				X		X	X	X	X						
6. MW12-S1		AM/PM	16				X		X	X	X							
7. DUP1		AM/PM	16				X		X	X	X							
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																
11.		AM/PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
A. Gilmour	12/5/24	4:45 pm		Dec 6	11 pm

Page 1 of 1

N°: T-164935

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

AGAT Laboratories

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http://www.agatlabs.com

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
401 GRAYS ROAD
HAMILTON, ON L8E 2Z3
(905) 318-7440

ATTENTION TO: Bennett Sabourin

PROJECT: 220141

AGAT WORK ORDER: 25T327413

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Inorganic Team Lead

DATE REPORTED: Aug 06, 2025

PAGES (INCLUDING COVER): 16

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*

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Certificate of Analysis

AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

		SAMPLE DESCRIPTION:		MW13 S1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	**Unit**	**G / S**	**RDL**	**6931884**
Naphthalene	µg/L	6400	0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20
Acenaphthene	µg/L	1700	0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20
Benzo(a)anthracene	µg/L	4.7	0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20
2-and 1-methyl Napthalene	µg/L	1800	0.20	<0.20
Sediment				1
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		83
Acridine-d9	%	50-140		78
Terphenyl-d14	%	50-140		91

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6931884 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowkolof

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Certificate of Analysis

AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - PCBs (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

		SAMPLE DESCRIPTION:		MW13 S1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	**Unit**	**G / S**	**RDL**	**6931884**
Polychlorinated Biphenyls	µg/L	15	0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**		
Decachlorobiphenyl	%	60-140		103

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6931884 PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

		SAMPLE DESCRIPTION:		MW13 S1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	**Unit**	**G / S**	**RDL**	**6931884**
Benzene	µg/L	430	0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20
Ethylbenzene	µg/L	2300	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20
o-Xylene	µg/L		0.10	<0.10
Xylenes (Total)	µg/L	4200	0.20	<0.20
F1 (C6 to C10)	µg/L	750	25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25
F2 (C10 to C16)	µg/L	150	100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100
F3 (C16 to C34)	µg/L	500	100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100
F4 (C34 to C50)	µg/L	500	100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA
Sediment				3
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	60-140		64
Terphenyl	% Recovery	60-140		82

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AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6931884 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
The C6-C10 fraction is calculated using toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

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O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2025-07-30

DATE REPORTED: 2025-08-06

		SAMPLE DESCRIPTION:		MW13 S1A
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	Unit	G / S	RDL	6931886
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17
Bromomethane	µg/L	56	0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0
1,1-Dichloroethylene	µg/L	17	0.30	<0.30
Methylene Chloride	µg/L	5500	0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20
Methyl tert-butyl ether	µg/L	1400	0.20	<0.20
1,1-Dichloroethane	µg/L	3100	0.30	<0.30
Methyl Ethyl Ketone	µg/L	1500000	1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20
1,2-Dichloroethane	µg/L	12	0.20	<0.20
1,1,1-Trichloroethane	µg/L	6700	0.30	<0.30
Carbon Tetrachloride	µg/L	8.4	0.20	<0.20
Benzene	µg/L	430	0.20	<0.20
1,2-Dichloropropane	µg/L	140	0.20	<0.20
Trichloroethylene	µg/L	17	0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20
Methyl Isobutyl Ketone	µg/L	580000	1.0	<1.0
1,1,2-Trichloroethane	µg/L	30	0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10
Ethylene Dibromide	µg/L	0.83	0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	28	0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

		SAMPLE DESCRIPTION:		MW13 S1A
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	**Unit**	**G / S**	**RDL**	**6931886**
Bromoform	µg/L	770	0.10	<0.10
Styrene	µg/L	9100	0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	15	0.10	<0.10
o-Xylene	µg/L		0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10
1,4-Dichlorobenzene	µg/L	67	0.10	<0.10
1,2-Dichlorobenzene	µg/L	9600	0.10	<0.10
1,3-Dichloropropene	µg/L	45	0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20
n-Hexane	µg/L	520	0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	50-140		82
4-Bromofluorobenzene	% Recovery	50-140		102

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6931886 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowkolof

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AGAT WORK ORDER: 25T327413

PROJECT: 220141

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2025-07-30 **DATE REPORTED: 2025-08-06**

		SAMPLE DESCRIPTION:		MW13 S1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2025-07-30
Parameter	Unit	G / S	RDL	6931884
Dissolved Antimony	µg/L	20000	1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	2.4
Dissolved Barium	µg/L	29000	2.0	83.5
Dissolved Beryllium	µg/L	67	0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	131
Dissolved Cadmium	µg/L	2.7	0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	3.62
Dissolved Copper	µg/L	87	1.0	<1.0
Dissolved Lead	µg/L	25	0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	5.56
Dissolved Nickel	µg/L	490	1.0	9.2
Dissolved Selenium	µg/L	63	1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	12.7
Dissolved Vanadium	µg/L	250	0.40	0.46
Dissolved Zinc	µg/L	1100	5.0	<5.0
Mercury	µg/L	2.8	0.02	<0.02
Chromium VI	µg/L	140	2.000	<2.000
Cyanide, WAD	µg/L	66	2	<2
Dissolved Sodium	µg/L	2300000	50	84600
Chloride	µg/L	2300000	100	134000
pH	pH Units		NA	7.61

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to ON T3 NPGW MFT
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

6931884 Metals analysis completed on a filtered sample.
pH is a recommended field analysis taken within 15 minutes of sample collection. Due to the potential for rapid change in sample equilibrium chemistry laboratory results may differ from field measured results

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

Trace Organics Analysis

RPT Date: Aug 06, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)															
Benzene	6928206		<0.20	<0.20	NA	< 0.20	91%	60%	140%	95%	60%	140%	105%	60%	140%
Toluene	6928206		<0.20	<0.20	NA	< 0.20	79%	60%	140%	83%	60%	140%	64%	60%	140%
Ethylbenzene	6928206		<0.10	<0.10	NA	< 0.10	69%	60%	140%	77%	60%	140%	61%	60%	140%
m & p-Xylene	6928206		<0.20	<0.20	NA	< 0.20	82%	60%	140%	88%	60%	140%	86%	60%	140%
o-Xylene	6928206		<0.10	<0.10	NA	< 0.10	80%	60%	140%	88%	60%	140%	69%	60%	140%
F1 (C6 to C10)	6928206		<25	<25	NA	< 25	94%	60%	140%	90%	60%	140%	86%	60%	140%
F2 (C10 to C16)	6927801		< 100	< 100	NA	< 100	97%	60%	140%	88%	60%	140%	80%	60%	140%
F3 (C16 to C34)	6927801		< 100	< 100	NA	< 100	110%	60%	140%	91%	60%	140%	79%	60%	140%
F4 (C34 to C50)	6927801		< 100	< 100	NA	< 100	84%	60%	140%	110%	60%	140%	85%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	6931367		<0.20	<0.20	NA	< 0.20	90%	50%	140%	81%	50%	140%	73%	50%	140%
Acenaphthylene	6931367		<0.20	<0.20	NA	< 0.20	99%	50%	140%	84%	50%	140%	100%	50%	140%
Acenaphthene	6931367		<0.20	<0.20	NA	< 0.20	99%	50%	140%	84%	50%	140%	73%	50%	140%
Fluorene	6931367		<0.20	<0.20	NA	< 0.20	94%	50%	140%	81%	50%	140%	75%	50%	140%
Phenanthrene	6931367		<0.10	<0.10	NA	< 0.10	81%	50%	140%	104%	50%	140%	85%	50%	140%
Anthracene	6931367		<0.10	<0.10	NA	< 0.10	115%	50%	140%	108%	50%	140%	80%	50%	140%
Fluoranthene	6931367		<0.20	<0.20	NA	< 0.20	118%	50%	140%	100%	50%	140%	111%	50%	140%
Pyrene	6931367		<0.20	<0.20	NA	< 0.20	101%	50%	140%	87%	50%	140%	75%	50%	140%
Benzo(a)anthracene	6931367		<0.20	<0.20	NA	< 0.20	74%	50%	140%	86%	50%	140%	83%	50%	140%
Chrysene	6931367		<0.10	<0.10	NA	< 0.10	114%	50%	140%	109%	50%	140%	101%	50%	140%
Benzo(b)fluoranthene	6931367		<0.10	<0.10	NA	< 0.10	95%	50%	140%	89%	50%	140%	111%	50%	140%
Benzo(k)fluoranthene	6931367		0.11	<0.10	NA	< 0.10	126%	50%	140%	108%	50%	140%	102%	50%	140%
Benzo(a)pyrene	6931367		<0.01	<0.01	NA	< 0.01	99%	50%	140%	79%	50%	140%	96%	50%	140%
Indeno(1,2,3-cd)pyrene	6931367		<0.20	<0.20	NA	< 0.20	97%	50%	140%	86%	50%	140%	72%	50%	140%
Dibenz(a,h)anthracene	6931367		<0.20	<0.20	NA	< 0.20	83%	50%	140%	83%	50%	140%	70%	50%	140%
Benzo(g,h,i)perylene	6931367		<0.20	<0.20	NA	< 0.20	89%	50%	140%	80%	50%	140%	83%	50%	140%
O. Reg. 153(511) - PCBs (Water)															
Polychlorinated Biphenyls	6913126		< 0.2	< 0.2	NA	< 0.1	102%	60%	140%	99%	60%	140%	108%	60%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	6821664		< 0.40	< 0.40	NA	< 0.40	98%	60%	140%	95%	50%	140%	74%	50%	140%
Vinyl Chloride	6821664		< 0.17	< 0.17	NA	< 0.17	87%	60%	140%	85%	50%	140%	93%	50%	140%
Bromomethane	6821664		< 0.20	< 0.20	NA	< 0.20	85%	60%	140%	86%	50%	140%	92%	50%	140%
Trichlorofluoromethane	6821664		< 0.40	< 0.40	NA	< 0.40	95%	60%	140%	98%	50%	140%	98%	50%	140%
Acetone	6821664		< 1.0	< 1.0	NA	< 1.0	90%	60%	140%	105%	50%	140%	89%	50%	140%
1,1-Dichloroethylene	1682166		< 0.30	< 0.30	NA	< 0.30	95%	60%	140%	102%	50%	140%	90%	50%	140%
Methylene Chloride	6821664		< 0.30	< 0.30	NA	< 0.30	98%	60%	140%	92%	50%	140%	86%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

Trace Organics Analysis (Continued)

RPT Date: Aug 06, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
trans- 1,2-Dichloroethylene	6821664		< 0.20	< 0.20	NA	< 0.20	89%	60%	140%	96%	50%	140%	90%	50%	140%
Methyl tert-butyl ether	6821664		< 0.20	< 0.20	NA	< 0.20	85%	60%	140%	95%	50%	140%	98%	50%	140%
1,1-Dichloroethane	6821664		< 0.30	< 0.30	NA	< 0.30	93%	60%	140%	97%	50%	140%	74%	50%	140%
Methyl Ethyl Ketone	6821664		< 1.0	< 1.0	NA	< 1.0	92%	60%	140%	98%	50%	140%	75%	50%	140%
cis- 1,2-Dichloroethylene	6821664		< 0.20	< 0.20	NA	< 0.20	98%	60%	140%	95%	50%	140%	76%	50%	140%
Chloroform	6821664		< 0.20	< 0.20	NA	< 0.20	89%	60%	140%	104%	50%	140%	95%	50%	140%
1,2-Dichloroethane	6821664		< 0.20	< 0.20	NA	< 0.20	85%	60%	140%	98%	50%	140%	90%	50%	140%
1,1,1-Trichloroethane	6821664		< 0.30	< 0.30	NA	< 0.30	78%	60%	140%	78%	50%	140%	87%	50%	140%
Carbon Tetrachloride	6821664		< 0.20	< 0.20	NA	< 0.20	74%	60%	140%	85%	50%	140%	105%	50%	140%
Benzene	6821664		< 0.20	< 0.20	NA	< 0.20	75%	60%	140%	83%	50%	140%	98%	50%	140%
1,2-Dichloropropane	6821664		< 0.20	< 0.20	NA	< 0.20	86%	60%	140%	92%	50%	140%	89%	50%	140%
Trichloroethylene	6821664		< 0.20	< 0.20	NA	< 0.20	90%	60%	140%	96%	50%	140%	86%	50%	140%
Bromodichloromethane	6821664		< 0.20	< 0.20	NA	< 0.20	98%	60%	140%	95%	50%	140%	83%	50%	140%
Methyl Isobutyl Ketone	6821664		< 1.0	< 1.0	NA	< 1.0	77%	60%	140%	78%	50%	140%	95%	50%	140%
1,1,2-Trichloroethane	6821664		< 0.20	< 0.20	NA	< 0.20	98%	60%	140%	105%	50%	140%	98%	50%	140%
Toluene	6821664		< 0.20	< 0.20	NA	< 0.20	89%	60%	140%	98%	50%	140%	78%	50%	140%
Dibromochloromethane	6821664		< 0.10	< 0.10	NA	< 0.10	90%	60%	140%	86%	50%	140%	105%	50%	140%
Ethylene Dibromide	6821664		< 0.10	< 0.10	NA	< 0.10	98%	60%	140%	88%	50%	140%	98%	50%	140%
Tetrachloroethylene	6821664		< 0.20	< 0.20	NA	< 0.20	78%	60%	140%	85%	50%	140%	83%	50%	140%
1,1,1,2-Tetrachloroethane	6821664		< 0.10	< 0.10	NA	< 0.10	85%	60%	140%	90%	50%	140%	92%	50%	140%
Chlorobenzene	6821664		< 0.10	< 0.10	NA	< 0.10	90%	60%	140%	98%	50%	140%	96%	50%	140%
Ethylbenzene	6821664		< 0.10	< 0.10	NA	< 0.10	105%	60%	140%	105%	50%	140%	95%	50%	140%
m & p-Xylene	6821664		< 0.20	< 0.20	NA	< 0.20	98%	60%	140%	98%	50%	140%	98%	50%	140%
Bromoform	6821664		< 0.10	< 0.10	NA	< 0.10	89%	60%	140%	89%	50%	140%	78%	50%	140%
Styrene	6821664		< 0.10	< 0.10	NA	< 0.10	85%	60%	140%	85%	50%	140%	74%	50%	140%
1,1,2,2-Tetrachloroethane	6821664		< 0.10	< 0.10	NA	< 0.10	93%	60%	140%	86%	50%	140%	105%	50%	140%
o-Xylene	6821664		< 0.10	< 0.10	NA	< 0.10	95%	60%	140%	90%	50%	140%	98%	50%	140%
1,3-Dichlorobenzene	6821664		< 0.10	< 0.10	NA	< 0.10	98%	60%	140%	98%	50%	140%	77%	50%	140%
1,4-Dichlorobenzene	6821664		< 0.10	< 0.10	NA	< 0.10	89%	60%	140%	88%	50%	140%	75%	50%	140%
1,2-Dichlorobenzene	6821664		< 0.10	< 0.10	NA	< 0.10	85%	60%	140%	74%	50%	140%	90%	50%	140%
1,3-Dichloropropene	6821664		< 0.30	< 0.30	NA	< 0.30	98%	60%	140%	98%	50%	140%	90%	50%	140%
n-Hexane	6821664		< 0.20	< 0.20	NA	< 0.20	90%	60%	140%	85%	50%	140%	89%	50%	140%

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

Water Analysis

RPT Date: Aug 06, 2025			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Dissolved Antimony	6931959		<1.0	<1.0	NA	< 1.0	102%	70%	130%	104%	80%	120%	98%	70%	130%
Dissolved Arsenic	6931959		2.2	2.0	NA	< 1.0	99%	70%	130%	102%	80%	120%	105%	70%	130%
Dissolved Barium	6931959		26.9	27.4	1.8%	< 2.0	98%	70%	130%	100%	80%	120%	94%	70%	130%
Dissolved Beryllium	6931959		<0.50	<0.50	NA	< 0.50	105%	70%	130%	110%	80%	120%	107%	70%	130%
Dissolved Boron	6931959		631	624	1.1%	< 10.0	104%	70%	130%	107%	80%	120%	107%	70%	130%
Dissolved Cadmium	6931959		<0.20	<0.20	NA	< 0.20	100%	70%	130%	100%	80%	120%	103%	70%	130%
Dissolved Chromium	6931959		<2.0	<2.0	NA	< 2.0	105%	70%	130%	107%	80%	120%	103%	70%	130%
Dissolved Cobalt	6931959		0.70	0.84	NA	< 0.50	105%	70%	130%	105%	80%	120%	100%	70%	130%
Dissolved Copper	6931959		<1.0	<1.0	NA	< 1.0	104%	70%	130%	102%	80%	120%	99%	70%	130%
Dissolved Lead	6931959		<0.50	<0.50	NA	< 0.50	101%	70%	130%	101%	80%	120%	100%	70%	130%
Dissolved Molybdenum	6931959		26.0	26.1	0.4%	< 0.50	95%	70%	130%	99%	80%	120%	101%	70%	130%
Dissolved Nickel	6931959		5.9	5.5	7.0%	< 1.0	106%	70%	130%	105%	80%	120%	101%	70%	130%
Dissolved Selenium	6931959		<1.0	<1.0	NA	< 1.0	93%	70%	130%	100%	80%	120%	101%	70%	130%
Dissolved Silver	6931959		<0.20	<0.20	NA	< 0.20	97%	70%	130%	96%	80%	120%	89%	70%	130%
Dissolved Thallium	6931959		<0.30	<0.30	NA	< 0.30	99%	70%	130%	100%	80%	120%	100%	70%	130%
Dissolved Uranium	6931959		1.21	1.18	NA	< 0.50	102%	70%	130%	104%	80%	120%	104%	70%	130%
Dissolved Vanadium	6931959		0.61	0.41	NA	< 0.40	103%	70%	130%	106%	80%	120%	103%	70%	130%
Dissolved Zinc	6931959		<5.0	<5.0	NA	< 5.0	104%	70%	130%	106%	80%	120%	105%	70%	130%
Mercury	6931884	6931884	<0.02	<0.02	NA	< 0.02	101%	70%	130%	103%	80%	120%	93%	70%	130%
Chromium VI	6932093		<2.000	<2.000	NA	< 2	101%	70%	130%	97%	80%	120%	97%	70%	130%
Cyanide, WAD	6931959		<2	<2	NA	< 2	92%	70%	130%	99%	80%	120%	76%	70%	130%
Dissolved Sodium	6931959		52500	54900	4.5%	< 50	93%	70%	130%	100%	80%	120%	96%	70%	130%
Chloride	6929978		21000	21200	0.9%	< 100	95%	70%	130%	100%	80%	120%	97%	70%	130%
pH	6930477		6.77	6.82	0.7%	NA	100%	90%	110%						

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By: Iris Verástegui

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Napthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
Polychlorinated Biphenyls	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5112	modified from EPA SW-846 3510 & 8082A	GC/ECD
Benzene	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
Toluene	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
Ethylbenzene	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
m & p-Xylene	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
o-Xylene	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
Xylenes (Total)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS
F1 (C6 to C10)	VOL-91- 5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/MS

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 25T327413

PROJECT: 220141

ATTENTION TO: Bennett Sabourin

SAMPLING SITE:17 Prince St., Milton

SAMPLED BY:BS / SB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Mercury	MET-93-6100	modified from EPA 245.2 and SM 3112 B	CVAAS
Chromium VI	INOR-93-6073	modified from SM 3500-CR B	LACHAT FIA
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Dissolved Sodium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP/MS
Chloride	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH	INOR-93-6000	modified from SM 4500-H+ B	PC TITRATE

AGAT Laboratories

Have feedback? Scan here for a quick survey!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 25T327413

Cooler Quantity: [illegible]

Arrival Temperatures: 7.3 | 7.9 | 8.0

Depot Temperatures: | |

Custody Seal Intact: ☐Yes ☐No ☐N/A

Notes: L I F

Report Information:

Company: SOILMAT

Contact: Bennett Sabourin

Address: 401 Grays Rd, Hamilton

Phone: Fax:

Reports to be sent to:

1. Email: bsabourin@soilmat.ca | 3isbradley@soilmat.ca
2. Email: pmarkesic@soilmat.ca

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04 — Table 1 (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Regulation 406 — Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture

☐ Regulation 558

☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm — Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other — Indicate One

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CSR

Project Information:

Project: 220141

Site Location: 17 Prince St, Milton

Sampled By: BS/SB

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition (RSC)**? ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Legal Sample ☐

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:

Contact:

Address:

Email:

Sample Matrix Legend

GW	Ground Water	**SD**	Sediment
O	Oil	**SW**	Surface Water
P	Paint	**R**	Rock/Shale
S	Soil		

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 406: VOC	O. Reg 406: PAHs	O. Reg 406: PCBs: Aroclors ☐	O. Reg 406: Regulation 406 Characterization Package pH, Metals, BTEX, F1-F4	O. Reg 406: EC, SAR	O. Reg 406: Regulation 406 SPLP Rainwater Leach mSPLP: ☐ Metals ☐ VOCs ☐ SVOCs ☐ OC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs TCLP: ☐ M&I	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. MW13 SI	July 30/2025	AM/PM	15	GW			✓		✓		✓	✓						
2. MW13 SIA	↓	AM/PM	3	↓						✓								
3.		AM/PM																
4.		AM/PM																
5.		AM/PM																
6.		AM/PM																
7.		AM/PM																
8.		AM/PM																
9.		AM/PM																
10.		AM/PM																
11.		AM/PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			[signature]	July 30	4p
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page ____ of ____

No: T - 173473

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

Appendix ‘D’

1. Qualifications of Assessors

COMPANY BACKGROUND

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] is a Canadian Consulting Engineering firm owned by its senior staff. Over the past thirty years the principals of SOIL-MAT ENGINEERS have undertaken geotechnical investigations in all areas of Hamilton and surrounding area and are familiar with the distinct geology of the area and therefore well-versed with the various soil, bedrock and groundwater conditions. SOIL-MAT ENGINEERS has a staff of over twenty-five engineers and technical staff who specialize in geotechnical assignments, environmental assessments, hydrogeological investigations and construction quality control/assurance projects. The company commenced operation on June 15, 1992 and has undertaken over 5,000 projects since its inception. The firm and all professional staff are in good standing with Professional Engineers Ontario. The company has maintained a current Certificate of Authorisation since it was granted on April 28, 1992. The firm's office and laboratory facilities are located at 130 Lancing Drive in Hamilton, Ontario.

REPORT AUTHORS

Peter Markesic, B.Sc.
Project Manager

Mr. Markesic has over seventeen years of experience in conducting Phase I ESA research and Phase II ESA fieldwork, including soil and groundwater sampling. Mr. Markesic has also been a key project member on a number of Phase III Environmental Site Assessment projects, including the decommissioning of underground fuel storage tanks and both in-situ and ex-situ remediation projects.

Stephen R. Sears, B. Eng. Mgmt., P. Eng.
[Director/ Senior Professional]

Mr. Sears has over twenty-five years of experience in the geotechnical and geo-environmental fields. Mr. Sears holds current Consulting Engineer designations with the Professional Engineers Ontario and the Association of Professional Engineers and Geoscientists of Saskatchewan and has supervised the geotechnical investigations for numerous industrial, commercial and residential development projects in Southern Ontario, slope stability assignments associated with Hamilton Conservation Authority, Conservation Halton and Niagara Peninsula Conservation Authority requirements, and several high rise developments throughout Ontario. Mr. Sears has also been involved in geotechnical and hydrogeological investigations for industrial park developments in the Greater Toronto Area and Niagara Peninsula. Some of Mr. Sears' projects have included the decommissioning and reconstruction of underground and above ground fuel oil storage tanks in Ontario and Saskatchewan, the study of the containment structures at a number of Petroleum Storage Facilities in Ontario and and numerous 'dig and dump' remediation projects.

Keith Gleadall, B.A., EA Dipl.

Vice-President [Senior Professional]

Mr. Gleadall has over twenty years of experience in conducting Phase I, II and III Environmental Site Assessments and has successfully completed the requirements of the Associated Environmental Site Assessors of Canada and a Post Graduate Diploma in Environmental Site Assessment from Niagara College. Mr. Gleadall is responsible for undertaking numerous hydrogeological investigations, primarily within the City of Hamilton, associated with the development of residential and commercial subdivision projects, together with Phase I, II and III Environmental Site Assessments. Projects have included the decommissioning of underground and above ground fuel oil storage tanks, the implementation of in-situ and ex-situ remediation programmes, the decommissioning of a former dry cleaning facility and numerous 'dig and dump' remediation projects.

Appendix ‘E’

1. Statement of Limitations

REPORT LIMITATIONS

Achieving the objectives that are stated in this report has required SOIL-MAT ENGINEERS to derive conclusions based upon the best and most recent information currently available to SOIL-MAT ENGINEERS. No investigative method can completely eliminate the possibility of obtaining partially imprecise information. SOIL-MAT ENGINEERS has expressed professional judgement in gathering and analysing the information obtained and in the formulation of its conclusions.

Information in this report was obtained from sources deemed to be reliable, however, no representation or warranty is made as to the accuracy of this information. To the best of SOIL-MAT ENGINEERS' knowledge, the information gathered from outside sources contained in this report on which SOIL-MAT ENGINEERS has formulated its opinions and conclusions, are both true and correct. SOIL-MAT ENGINEERS assumes no responsibility for any misrepresentation of facts gathered from outside sources.

This report was prepared to assess and document evidence of potential environmental contamination, and not to judge the acceptability of the risks associated with such environmental contamination. Much of the information gathered for this report is only accurate at the time of collection and a change in the Site conditions may alter the interpretation of SOIL-MAT ENGINEERS' findings. Furthermore, the reader should note that the Site reconnaissance described in this report was an environmental assessment of the Site, not a regulatory compliance or an environmental audit of the Site.

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of MIKMADA HOMES. The material in it reflects SOIL-MAT ENGINEERS best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. SOIL-MAT ENGINEERS accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.