SOIL-MAT ENGINEERS & CONSULTANTS LTD.

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PROJECT NO.: SM 156176-E

March 29, 2016

MY WAY INVESTMENTS
503 Plains Road East
P.O. Box 71113
Burlington, Ontario
L7T 4J8

Attention: Mr. Adam Gall

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
355 PLAINS ROAD EAST
BURLINGTON, ONTARIO

Dear Mr. Gall,

SOIL-MAT ENGINEERS & CONSULTANTS LTD. [SOIL-MAT ENGINEERS] was retained to undertake a Phase Two Environmental Site Assessment [ESA] on the above captioned property. Furthermore, it is our understanding that the Phase Two ESA is intended to support the filing of a Record of Site Condition [RSC]. In order to complete and file an RSC, the RSC property will either need to meet the applicable Ontario Regulation 153/04 [as amended] soil and groundwater standards or be subjected to a Risk Assessment.

Our fieldwork, laboratory testing and interpretation in connection with the assessment activities has been summarised and our comments and recommendations, based on our findings, are presented in the following paragraphs. The subject property is herein referred to as the *Site*.

1.0 INTRODUCTION

1.1 SITE DESCRIPTION

The Site is comprised of a roughly rectangular shaped parcel of land on the northeast corner of Downsview Drive and Plains Road East in the City of Burlington, Ontario. For descriptive purposes Plains Road East has been designated as having an east-west alignment. The Site was recognized by the municipal address 355 Plains Road East, Burlington, Ontario.

At the time of this Report the Site was occupied by a single storey multi-unit commercial building with no basement level. The building occupants included the following;

- Financial Planning Services: Commercial services;
- Church of God: Institutional services;
- TP Moskal & Co: Commercial services;
- Sun Country Patio Furniture: Commercial services;
- Computability: Commercial services;
- Aldershot Dry Cleaners: Commercial services;
- Fred Kinsley Goldsmith: Commercial services;
- Former Fitness Gym: Commercial services;
- Offices : Retail commercial space [vacant units];

The remainder of the Site was primarily covered with asphaltic-concrete with some grass covered areas near the northern, southern and western perimeters of the Site.

The Site was bound to the north by residential, to the west Downsview Drive, to the south by Plains Road East, and to the east by East Plains United Church.

The geographic coordinates of the Site using a hand held global positioning unit are [NAD 83] 17T 593880E/ 4796500N.

1.2 PROPERTY OWNERSHIP

As noted in the preamble of this Report, SOIL-MAT ENGINEERS were retained by MY WAY INVESTMENTS to undertake the Phase Two ESA activities on the Site in support of the redevelopment of the Site. Furthermore, the Site is currently under the ownership of MY WAY INVESTMENTS. The contact information for MY WAY INVESTMENTS is provided below:

MY WAY INVESTMENTS
503 Plains Road East
P.O. Box 71113
Burlington, Ontario
L7T 4J8

Point of Contact: Mr. Adam Gall [adam@mywayinvestments.com]

1.3 CURRENT AND PROPOSED FUTURE USES

The Site was most recently used for commercial purposes and the intended future use of the site is a residential development.

1.4 APPLICABLE SITE CONDITION STANDARDS

The following criteria was utilised to determine the appropriate site classification and Ontario Regulation 153/04 [as amended] soil and groundwater standards.

- Current land use: Commercial;
- Intended land use: Residential;
- Drinking Water Supply: Non-potable Ground Water;
- On-site Soil Texture: Fine Grained Soils;
- Depth to Bedrock: Approximately 17.0 metres or greater below ground surface;
- pH of soils on the Site: Within Standard range;
- Surface Water Body: None observed within 30 metres of the Site.

Based on the above, all soil and groundwater laboratory analytical test results were compared to the Table 3 Standards for a Residential/Parkland/Institutional Property Use ["RPI"] 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'.

2.0 BACKGROUND INFORMATION

2.1 PHYSICAL SETTING

At the time of this Report no construction activities were underway.

The Site was bounded to the north by private residences, to the east by East Plains United Church, to the south by Plains Road East, and to the west by Downsview Drive.

The topography of the Site slopes gently from north to south with a topographic relief across the Site of approximately 1.0 metres. Surface water drainage is directed localized storm drains located throughout the parking lot area.

No surface water bodies were observed on-site or within 30 metres of the Site.

2.2 PAST INVESTIGATIONS

Prior to the undertaking of SOIL-MAT ENGINEERS' Phase Two ESA activities, a Phase One ESA was prepared by SOIL-MAT ENGINEERS under the project number SM 156176-E dated July 24, 2015. The Phase One ESA identified the following potential contaminating activities ['PCAs'] in connection with the above captioned Site:

- A dry cleaning operation exists on site that has been in operation from 2006 to present. This operation uses Perchloroethylene [PERC] as a cleaning solvent.

It is also noted that over the course of the fieldwork programme, suspected fill material of unknown quality was encountered on Site.

In considering the above noted PCAs, the potential contaminants of concerns [COCs] were identified as Volatile Organic Compounds [VOCs] and various Metal and Inorganics [M/I].

3.0 SCOPE OF THE INVESTIGATION

3.1 OVERVIEW OF SITE INVESTIGATION

The Phase Two ESA fieldwork programme included the advancement of nine [9] boreholes [labelled Borehole Nos. 6 through 14, inclusive] within the Site boundaries to identify potential VOC and M/I impacts to the soil medium, if any, and to assess potential VOC impacts to the groundwater medium on the Site.

To achieve the above, eleven [11] discrete soil samples were selected from Borehole Nos. 7, 9, 10, 11, 12, 13 and 14, for submission to AGAT Laboratories Limited, ["AGAT"], [an accredited Canadian Environmental Laboratory] for analytical testing of the contaminants of concern.

It is noted that the Phase Two ESA activities were guided by the previously Phase One ESA report. As noted, the COCs identified in our previous Phase One ESA report were identified as VOCs and M/I.

In addition to the above, four [4] groundwater monitoring wells were installed in Borehole Nos. 10, 11, 12 and 13 to allow for the collection of groundwater samples for laboratory analytical testing for PHCs.

The laboratory analytical test results were interpreted from an environmental point-of-view and were compared to the applicable Ontario Regulation 153/04 [as amended] soil and groundwater standards for the Site.

3.2 MEDIA INVESTIGATED

The Phase Two ESA investigated potential impacts to the surface and subsurface soil and groundwater mediums. The COC groupings were determined based on based on the potential contaminating activities outlined by our Phase One ESA. As stated above, these COCs were specified as VOCs and Metals and Inorganics.

3.3 PHASE ONE CONCEPTUAL SITE MODEL

Refer to SOIL-MAT ENGINEERS' Report No.: SM 156176-E dated July 24, 2015 for our Phase One CSM.

3.4 DEVIATIONS FROM SAMPLING AND ANALYSIS PLAN

No deviations from the Phase Two ESA sampling plan were encountered.

3.5 IMPEDIMENTS

SOIL-MAT ENGINEERS did not encounter any physical impediments on the Site and were not denied access to any parts of the Phase Two ESA property.

4.0 INVESTIGATION METHOD

4.1 GENERAL

The Phase Two ESA included securing both soil and groundwater samples.

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.

4.2 DRILLING AND EXCAVATING

Davis Drilling Ltd. was retained by SOIL-MAT ENGINEERS for the physical advancement of the boreholes and installation of the groundwater monitoring wells. It is noted that Davis Drilling Ltd. is a registered water well contractor for the installation and abandonment of groundwater monitoring wells under Ontario Regulation 903.

The boreholes were advanced using a truck mounted drill rig under the direction of SOIL-MAT ENGINEERS. Soil samples were secured at roughly 0.60 metre intervals via split spoon samplers to the termination of each borehole. The split spoon samples were driven in general accordance with the Standard Penetration Test [SPT] method.

Each 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. The boreholes were advanced on the Site using solid stem augers.

A 50 millimetre groundwater monitoring well was installed at Borehole Nos. 10, 11, 12 and 13 upon the completion of drilling activities. The groundwater monitoring wells were installed in accordance with *Regulation 903 [Wells]* under the Ontario Water Resources Act. The monitoring wells were outfitted with 'flush-mounted' steel protective casings set approximately even with the existing grade.

A water well record was submitted to the Ministry of the Environment 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.

A site plan drawing illustrating the borehole and groundwater monitoring well locations is included in Appendix 'A' for reference [refer to Drawing No.: 1].

4.3 SOIL SAMPLING

The 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, 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 delivered to AGAT were sealed in pre-cleaned sample jars, with preservatives were required, as provided by the laboratory.

The samples were delivered to AGAT's depot location in Stoney Creek, Ontario in coolers to maintain a temperature range between the applicable 0°C to 10°C.

A copy of SOIL-MAT ENGINEERS borehole logs is included in Appendix 'B' for reference.

4.4 FIELD SCREENING MEASUREMENTS

All of the Phase Two ESA soil samples were examined in the field for visual and olfactory evidence of a suspected solvent impact, such as unusual staining and/or odours, etc.

No hand held field screening units were utilised during the collection of the confirmatory soil samples.

4.5 GROUNDWATER MONITORING WELL INSTALLATION

Davis Drilling Ltd. was retained by SOIL-MAT ENGINEERS for the physical drilling and construction of the groundwater monitoring wells.

The boreholes were advanced using a truck mounted drill rig under the direction of SOIL-MAT ENGINEERS and were advanced using solid and hollow stem augers.

A 50 millimetre groundwater monitoring well was installed at Borehole Nos. 10, 11, 12 and 13 upon the completion of drilling activities. The groundwater monitoring wells were installed in accordance with *Regulation 903 [Wells]* under the Ontario Water Resources Act.

A water well record was submitted to the Ministry of the Environment 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.

4.6 GROUNDWATER FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

No hand held field screening units were utilised during the collection of the groundwater samples. The samples were delivered immediately to AGAT upon retrieval from the monitoring well and were subjected to AGAT's QA procedure which included a temperature reading upon their receipt.

In each case, the groundwater samples were delivered to AGAT's depot location in Stoney Creek, Ontario and maintained a temperature range between the applicable 0°C to 10°C.

4.7 GROUNDWATER SAMPLING

Three [3] well volumes were purged from each groundwater monitoring well prior to the collection of the post-remediation groundwater samples. The monitoring wells were then allowed to recharge back to recorded static groundwater levels 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 parameters and a high density 10 millimetre tubing outfitted with a Waterra foot-valve pump for sample collection for Metals and Inorganics parameters.

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 ESAs.

4.8 SEDIMENT SAMPLING

Sediment sampling was not conducted as part of this Phase Two ESA.

4.9 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 RSC Regulation.

4.10 RESIDUE MANAGEMENT PROCEDURES

The residue soil generated during advancement of the boreholes on the Site was collected, tarped and stockpiled on-site until the results of the laboratory analytical were available, at which time the material was discarded across the surface of the Site in landscaped areas.

Purged groundwater was stored on-site 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.

4.11 ELEVATION SURVEYING

All boreholes and groundwater monitoring wells were surveyed by a staff member of SOIL-MAT ENGINEERS to facilitate site relative survey information. The top of the northern catch basin located to the rear of 355 Plains Road East was used as a geodetic benchmark. This benchmark is identified on Drawing No.: 1, Appendix 'A' and has a known elevation of 98.84 metres [survey plan by B.A. Jacobs Surveying Ltd., Job No. 07S85-T, dated January 7, 2014].

4.12 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 and groundwater analytical data were of an acceptable quality for comparison to 2011 MOE SCS as defined by *O.Reg.153/04, as amended,* for current investigations.

5.0 REVIEW AND EVALUATION

5.1 GEOLOGY

A copy of SOIL-MAT ENGINEERS' borehole logs are presented in Appendix 'B' for reference.

In summary, the Phase Two ESA revealed the following Site stratigraphy:

PAVEMENT STRUCTURE

All boreholes were advanced through the existing asphaltic concrete pavement. The pavement structure was found to generally consist of approximately 50 to 75 millimetres of asphaltic concrete, overlying approximately 150 to 250 millimetres of a compact granular base.

SAND FILL

Sand fill was encountered beneath the pavement structure at all borehole locations with the exception of Borehole No. 8. The brown granular fill contained traces of clay and rootlets as well as traces of to some silt and gravel. The sand fill was found to be in a generally very loose to compact condition and extended to depths of approximately 1.1 to 2.6 metres.

SAND

Native sand was encountered directly beneath the pavement structure in Borehole No. 8, and beneath the sand fill material in all other borehole locations. This granular soil is brown, contains traces of silt and fine gravel, is fine to medium in gradation, and generally in a loose to very dense condition. The native sand was encountered to approximate depths of 5.5 to 6.8 metres below the present grade.

CLAYEY SILT

Native clayey silt was encountered beneath the sand at all borehole locations. This cohesive soil is grey, contains traces of gravel and shale fragments, and is generally stiff to hard in consistency. The native clayey silt was proven to termination in all boreholes.

5.2 GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS

As noted above, four [4] groundwater monitoring wells were installed on-site. Static groundwater level measurements were recorded from each groundwater monitoring well during each sampling event as summarised below:

TABLE A
SUMMARY OF GROUNDWATER LEVELS

Borehole No.	Surface Elevation (m)	July 21, 2015		August 13, 2015		August 14, 2015	
		Depth [m]	Elev. [m]	Depth [m]	Elev. [m]	Depth [m]	Elev. [m]
MW#10	99.20	4.89	94.31	4.90	94.30	4.91	94.29
MW#11	98.98	4.80	94.18	4.82	94.16	4.82	94.16
MW#12	98.73	-	-	4.68	94.05	4.70	94.03
MW#13	99.29	-	-	5.27	94.02	5.28	94.01

Based on the ground water contours extrapolated from recorded static ground water levels on the Site the ground water flow direction through the Site is to the southeast.

5.3 GROUNDWATER HYDRAULIC GRADIENTS

The horizontal hydraulic gradient was calculated based on the groundwater levels recorded during the Phase Two ESA. Based on these recordings, the distance between the monitoring wells and the depth of well installation the horizontal hydraulic gradient is estimated as 0.0106.

5.4 SOIL TEXTURE

SOIL-MAT ENGINEERS' borehole logs indicate that the surface and subsurface soil consists primarily of clay and fine sands as the predominant soil type. A grain size distribution profile was not performed by SOIL-MAT ENGINEERS and would need to be used to confirm the soil was a medium fine texture.

5.5 SOIL QUALITY –SOIL SAMPLING

In total, eleven [11] soil samples were secured from the Site to assess potential impacts on the Site. The secured soil samples were submitted to AGAT for laboratory analytical testing as described in the summary Tables B below:

TABLE B
SUMMARY OF ANALYTICAL TESTING – SOIL [TABLE 3 RPI]

Sample ID	Depth [m bgs]	Laboratory Analysis	Soil Description	Comparison with Reg. 153/04 [as amended] T3 RPI MFT Soil Standards
BH7-SS1	0.76 to 1.37	M/I	Sand Fill	Exceedances: • Sodium Adsorption Ratio [reported as 14.5 vs SCS of 5]

TABLE B CONTINUED...

BH9-SS1	0.76 to 1.37	M/I	Sand Fill	No Exceedances
BH10-SS8	5.33 to 5.94	VOCs	Sand	No Exceedances
BH10-SS9	6.10 to 6.71	VOCs	Clayey Silt	No Exceedances
BH11-SS8	5.33 to 5.94	VOCs	Sand	No Exceedances
BH11-SS9	6.10 to 6.71	VOCs	Clayey Silt	No Exceedances
BH12-SS9	6.10 to 6.71	VOCs	Sand	No Exceedances
BH12-SS10	6.86 to 7.47	VOCs	Clayey Silt	No Exceedances
BH13-SS8	6.10 to 6.71	VOCs	Sand	No Exceedances
BH13-SS9	6.86 to 7.47	VOCs	Clayey Silt	No Exceedances
BH14-SS1	0.76 to 1.37	M/I	Sand Fill	Exceedances: • Sodium Adsorption Ratio [reported as 6.06 vs SCS of 5]
Notes: VOCs=Volatile Organic Compounds, SCS= Site Condition Standard [Table 3 RPI]				

In most cases, the laboratory analytical test results for the submitted soil samples meet the applicable Table 3 [RPI] Standards for the select tested parameters, being less than the laboratory method detection limits in the case of VOC parameters. Borehole Nos. 7 and 9 exceeded Table 3 [RPI] Medium Fine Texture (MFT) as well as Table 3 [RPI] Coarse Texture (CT) for Metals and Inorganics, specifically with regards to the Sodium Adsorption Ratio [SAR] parameter. A grain size analysis would have to be performed to confirm soil texture.

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

5.6 SOIL QUALITY – IMPORTED FILL MATERIAL

Boreholes advanced in connection with the Phase Two ESA fieldwork programme encountered suspected fill material beneath the pavement structure in the parking lot area surrounding the existing commercial building. This fill material was described as 'sand fill' and the origin of the fill is unknown.

5.7 GROUNDWATER QUALITY

Free groundwater was encountered in all boreholes at depths of approximately 4.4 to 5.9 metres upon completion of drilling activities. It is noted that insufficient time would have elapsed over the course of drilling for groundwater to have stabilised within the open borehole.

Groundwater monitoring wells were installed in Borehole Nos. 10, 11, 12, and 3 for future monitoring of the static groundwater level and environmental sampling of the on-site groundwater. These will be referred to as Monitoring Well Nos. 10, 11, 12, and 13 with each Monitoring Well corresponding to the Borehole Numbers. The results of these water level readings are outlined in the Table A above:

A groundwater sample was secured on August 14, 2015 from the four [4] monitoring wells installed on the Site.

A summary of the field samples and laboratory analytical test results is presented in Tables C below:

TABLE C
SUMMARY OF ANALYTICAL TESTING – WATER [TABLE 3 RPI]

Sample ID	Laboratory Analysis	Table 3 RPI Exceedances
MW10-S1	VOCs	No exceedances
MW11-S1	VOCs	No exceedances
MW12-S1	VOCs	No exceedances
MW13-S1	VOCs	No exceedances
Notes: VOCs=Volatile Organic Compounds, SCS= Site Condition Standard [Table 3 RPI]		

The laboratory analytical test results for the submitted ground water samples are all below the applicable Table 3 RPI Standards for the VOC test parameters.

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

5.8 SEDIMENT QUALITY

Sediment sampling was not conducted as part of this Phase Two ESA. The APEC and COC groupings were limited to the soil and groundwater mediums.

5.9 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). Each groundwater monitoring well was equipped with dedicated sampling equipment, including a 25 millimetre water bailer for sample collection. 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 and groundwater analytical data were of an acceptable quality for comparison to 2011 MOE Standards as defined by *O.Reg.153/04* for current investigations.

5.10 PHASE TWO CONCEPTUAL SITE MODEL ["CSM"]

As there is documented evidence of soil conditions above the applicable Table 3 RPI Standards, some form of remedial work or risk assessment activities are warranted. SOIL-MAT ENGINEERS will prepare a Phase Two CSM at the time of the final confirmatory soil sampling or during the future delineation testing to support a risk assessment.

6.0 CONCLUSIONS

SOIL-MAT ENGINEERS were retained by MY WAY INVESTMENTS [the "Client"] to undertake Phase Two ESA activities on the Site to assess the extent of impact, if any, to the on-site soils and groundwater as a result of the above summarised PCAs.

Based on the information collected as part of our previous Phase One ESA, two [2] areas of potential environmental concern were identified in the soil medium, including the following:

VOC SOIL IMPACT

The Phase Two ESA activities carried out by SOIL-MAT ENGINEERS did not reveal any VOC impact within the soil medium on the subject property at the sampling locations.

METALS AND INORGANICS SOIL IMPACT

The Phase Two ESA activities carried out by SOIL-MAT ENGINEERS revealed metals and inorganics impact within the on-site fill soils in the form of exceedances for Sodium Adsorption Ratio [SAR]. Elevated levels of SAR are typically associated with the application of salt from de-icing operations within parking lots and along municipal roadways. The exceedances indicated in the analytical test results are generally contained within the upper 1.4 metres of the sand fill material; however the total vertical extent of this impact is as of yet unknown. Furthermore, the total lateral extent of this impact is yet to be determined.

GROUNDWATER ANALYTICAL DATA

The Phase Two ESA activities undertaken on the Site by Soil-Mat Engineers did not reveal any VOC groundwater exceedances on the subject property at the sample locations.

PROPOSED FUTURE RESIDENTIAL REDEVELOPMENT

Given the proposed future use of the Site which includes residential applications, the property would be subject to a *mandatory* Record of Site Condition [RSC] filing. In order to complete

and file an RSC the properties will either need to meet the applicable Ontario Regulation 153/04 [as amended] soil and groundwater standards or be subjected to a Risk Assessment.

Presently, there is insufficient data to adequately characterize the extent of the SAR impact encountered on Site and to provide comments with regards to the necessity for remedial works and the potential costs associated with such works. It is recommended that further investigation is conducted on site to delineate the extent of the SAR impact on the subject property.

CLOSURE

SOIL-MAT ENGINEERS & CONSULTANTS LTD. prepared this Report for the account of MY WAY INVESTMENTS. 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.

Michael R Brown

Michael Brown, B.Eng., EIT



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

Ian Shaw P. Eng., QP_{ESA}
Review Engineer

Distribution: My Way Investments [1]

Attachments:
Appendix 'A': Site Plan Drawings
Appendix 'B': Borehole Logs
Appendix 'C': Soil Sampling Data
Appendix 'D': Groundwater Data
Appendix 'E': Limitations;
Appendix 'F': Qualifications of Assessor

Appendix ‘A’

1. Drawing No.: 1.: Borehole Location Plan;
2. Drawing No.: 2.: Analytical Data Summary [Soil] - VOC;
3. Drawing No.: 3.: Analytical Data Summary [Water] - VOC;
4. Drawing No.: 4.: Analytical Data Summary [Soil] – Metals & Inorganics;



LEGEND

BH-# Borehole

TBM Temporary Benchmark
[Top of northern catch basin in rear of 355 Plains Road East, geodetic elevation of 98.84 metres.]

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. report number SM 156176-E.
2. Soil samples will be discarded after 3 months unless directed otherwise by client.
3. Borehole locations are approximate.

Soil-Mat

Engineers & Consultants Ltd.

CLIENT

My Way Investments

PROJECT TITLE

Phase II Environmental Site Assessment
355 Plains Road East
Burlington, Ontario

DRAWING TITLE

Borehole Location Plan

PROJECT No.	SM 156176-G
SCALE	N.T.S.
DATE	July 2015
CHECKED	KG
DRAWN	MB
FILENAME	156176-E Borehole Location Plan.kcw

DRAWING No. 1



COC	Table 3 SCS	Depth
VOC	No Exceedances	5.33 - 5.94m
VOC	No Exceedances	6.10 - 6.71m

COC	Table 3 SCS	Depth
VOC	No Exceedances	5.33 - 5.94m
VOC	No Exceedances	6.10 - 6.71m

COC	Table 3 SCS	Depth
VOC	No Exceedances	6.10 - 6.71m
VOC	No Exceedances	6.86 - 7.47m

COC	Table 3 SCS	Depth
VOC	No Exceedances	6.10 - 6.71m
VOC	No Exceedances	6.86 - 7.47m

LEGEND

BH-# Borehole

TBM Temporary Benchmark [Top of northern catch basin in rear of 355 Plains Road East, geodetic elevation of 98.84 metres.]

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. report number SM 156176-E.
2. Soil samples will be discarded after 3 months unless directed otherwise by client.
3. Borehole locations are approximate.

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Engineers & Consultants Ltd.

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My Way Investments

PROJECT TITLE
Phase II Environmental Site Assessment
355 Plains Road East
Burlington, Ontario

DRAWING TITLE
Analytical Data Summary [Soil]
VOC

PROJECT No.	SM 156176-E
SCALE	N.T.S.
DATE	July 2015
CHECKED	KG
DRAWN	MB
FILENAME	156176-E Soil - VOC.kcw

DRAWING No. 2



LEGEND

BH-# Borehole

TBM Temporary Benchmark [Top of northern catch basin in rear of 355 Plains Road East, geodetic elevation of 98.84 metres.]

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. report number SM 156176-E.
2. Soil samples will be discarded after 3 months unless directed otherwise by client.
3. Borehole locations are approximate.

Soil-Mat
Engineers & Consultants Ltd.

CLIENT
My Way Investments

PROJECT TITLE
Phase II Environmental Site Assessment
355 Plains Road East
Burlington, Ontario

DRAWING TITLE
Analytical Data Summary [Water]
VOC

PROJECT No.	SM 156176-E
SCALE	N.T.S.
DATE	July 2015
CHECKED	KG
DRAWN	MB
FILENAME	156176-E Soil - VOC.kcw

DRAWING No. 3



LEGEND

BH-# Borehole

TBM Temporary Benchmark [Top of northern catch basin in rear of 355 Plains Road East, geodetic elevation of 98.84 metres.]

NOTES:

1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. report number SM 156176-E.
2. Soil samples will be discarded after 3 months unless directed otherwise by client.
3. Borehole locations are approximate.

Soil-Mat

Engineers & Consultants Ltd.

CLIENT

My Way Investments

PROJECT TITLE

Phase II Environmental Site Assessment
355 Plains Road East
Burlington, Ontario

DRAWING TITLE

Analytical Data Summary [Soil]
Metals & Inorganics

PROJECT No.	SM 156176-E
SCALE	N.T.S.
DATE	July 2015
CHECKED	KG
DRAWN	MB
FILENAME	156176-E Soil - M&I.kcw

DRAWING No. 4

Appendix ‘B’

1. Borehole Logs

Project No: SM 156176-E

Project: Phase II ESA

Location: 1010 Downsview Dr., Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 1

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

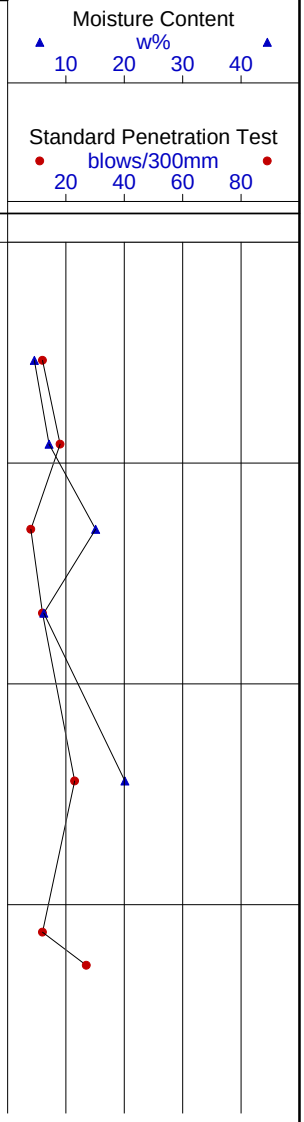
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SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.18	Ground Surface
		98.88	***Pavement Structure*** Approximately 50 millimetres of asphaltic concrete over approximately 250 millimetres of compact granular base
			Sand Brown, trace silt and fine gravel, fine to medium in gradation, loose to compact
		94.30	
		94.08	***Clayey Silt*** Brown, trace of fine gravel and shale fragments, very stiff
			Transition in colour to grey
		92.47	
			End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	3,4,8,8	12			
SS	2	6,7,11,9	18			
SS	3	3,4,4,6 Wet Spoon	8			
SS	4	5,6,6,6 Wet Spoon	12			
SS	5	5,14,9,10 Wet Spoon	23			
DC			12			
DC			27			



NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.1 metres. A dynamic cone was then driven from a depth of 6.1 metres to a depth of approximately 6.7 metres.

2. Free groundwater was encountered at a depth of 4.6 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.

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

Drill Method: Solid-Stem Auger

Drill Date: July 13, 2015

Hole Size: 200mm

Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark

Field Logged by: M. Brown

Checked by: IS

Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 1010 Downsview Dr., Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 2

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

SAMPLE

Depth (ft)	Depth (m)	Elevation [m]	Symbol	Description	Well Data	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
		99.63		Ground Surface								
0	0	99.37		**Pavement Structure** Approximately 60 millimetres of asphaltic concrete over approximately 200 millimetres of compact granular base								
2				**Sand Fill** Brown, trace to some silt, trace clay and fine gravel, very loose to loose		SS	1	2,3,1,1	4			
4						SS	2	1,2,1,1	3			
6	2											
8		97.03		**Sand** Brown, trace silt and fine gravel, fine to medium in gradation, loose to compact		SS	3	1,2,6,7	8			
10						SS	4	4,6,9,9	15			
12	4											
14												
16		94.75		**Clayey Silt** Grey, trace of fine gravel and shale fragments, stiff		SS	5	5,7,6,10 Wet Spoon	13			
18												
20	6					SS	6	4,4,7,9 Wet Spoon	11			19.0
22		92.92		End of Borehole								
24												
26	8											
28												
30												
32												

Moisture Content w% (10, 20, 30, 40)

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

NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.

2. Free groundwater was encountered at a depth of 6.5 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.

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

Drill Method: Solid-Stem Auger

Drill Date: July 13, 2015

Hole Size: 200mm

Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark

Field Logged by: M. Brown

Checked by: IS

Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 1010 Downsview Dr., Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 3

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

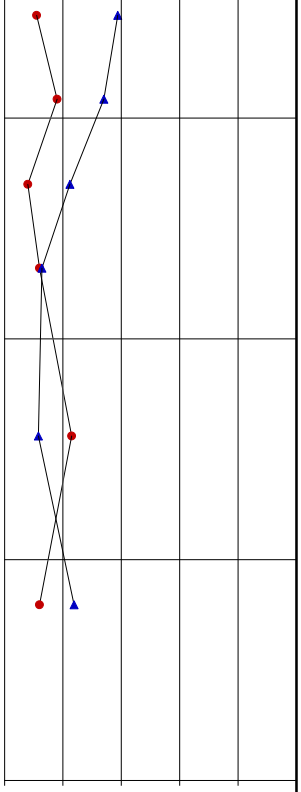
SUBSURFACE PROFILE

SAMPLE

Depth (ft)	Depth (m)	Elevation [m]	Symbol	Description	Well Data	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
		99.50		Ground Surface								
0	0	99.25		**Pavement Structure** Approximately 50 millimetres of asphaltic concrete over approximately 200 millimetres of compact granular base								
2				**Sand Fill** Brown, trace to some silt, trace clay and rootlets in the upper level, trace slag in the lower levels, very loose to loose		SS	1	1,1,2,2	3			
4												
6	2					SS	2	1,1,2,2	3			
8						SS	3	2,2,3,3	5			
10		96.50		**Sand** Brown, trace silt and fine gravel, fine to medium in gradation, compact		SS	4	4,6,7,8	13			
12	4											
14												
16						SS	5	5,7,8,10	15			
18												
20	6	93.09										
22		92.79		**Clayey Silt** Grey, trace of fine gravel and shale fragments, stiff		SS	6	6,5,1,4 Wet Spoon	12		18.5	
24				End of Borehole								
26	8											
28												
30												
32												

Moisture Content
w%
10 20 30 40

Standard Penetration Test
blows/300mm
20 40 60 80



NOTES:

1. Borehole was advanced using solid stem auger equipment on July 13, 2015 to termination at a depth of 6.7 metres.

2. Free groundwater was encountered at a depth of 6.0 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.

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

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 1010 Downsview Dr., Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 4

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

SAMPLE

Depth (ft)	Depth (m)	Elevation [m]	Description	Well Data	Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
		99.09	Ground Surface								
0	0	98.87	**Pavement Structure** Approximately 50 millimetres of asphaltic concrete over approximately 200 millimetres of compact granular base								
2					SS	1	2,2,2,3	4			
4			**Sand Fill** Brown, trace to some silt, trace clay and fine gravel, loose								
6	2	97.26			SS	2	1,2,2,1	4			
8			**Sand** Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, loose to compact		SS	3	4,4,6,8	10			
10					SS	4	4,7,9,11	16			
12	4										
14											
16					SS	5	5,6,6,6	12			
18		93.59									
20	6		**Clayey Silt** Grey, trace of fine gravel and shale fragments, stiff		SS	6	3,5,9,13 Wet Spoon	14		4.0	20.3
22		92.38									
			End of Borehole								
24											
26	8										
28											
30											
32											

Moisture Content
w%
10 20 30 40

Standard Penetration Test
blows/300mm
20 40 60 80

NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.

2. Free groundwater was encountered at a depth of 5.2 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.

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

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 1010 Downsview Dr., Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 5

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

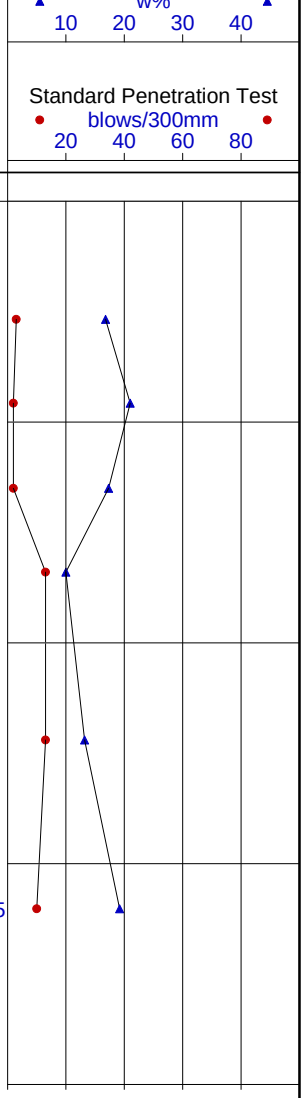
Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.25	Ground Surface
0	0	98.97	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 225 millimetres of compact granular base
2–6	0–2		**Sand Fill** — Brown, trace to some silt, trace clay and fine gravel, very loose
8–10	2–3	96.25	**Sand** — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, compact
12–18	4–5	93.75	**Clayey Silt** — Grey, trace of fine gravel and shale fragments, stiff
20–22	6–6.7	92.54	End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	3,1,2,2	3			
SS	2	1,1,1,1	2			
SS	3	0,1,1,1	2			
SS	4	4,6,7,8	13			
SS	5	5,6,7,50/3"	13			
SS	6	4,4,6,9 Wet Spoon	10		3.25	19.5

Moisture Content w% (10, 20, 30, 40)

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



NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 5.9 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 6

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

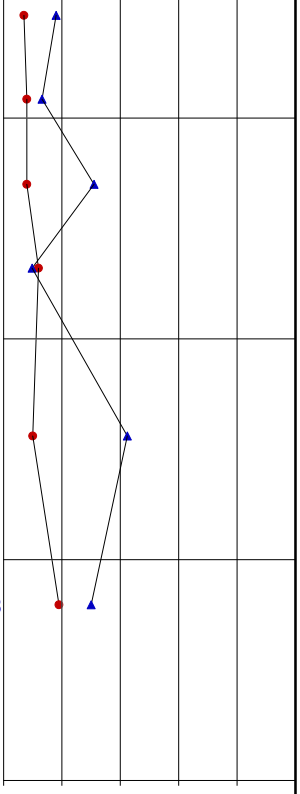
Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.32	Ground Surface
		99.09	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 175 millimetres of compact granular base
		97.82	**Sand Fill** — Brown, trace to some silt, trace clay and fine gravel, loose
	2		**Sand** — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, loose to compact
		93.82	**Clayey Silt** — Grey, trace of fine gravel and shale fragments, very stiff
	6	92.61	End of Borehole
	8		

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	2,4,3,7	7			
SS	2	3,4,4,2	8			
SS	3	2,3,5,6	8			
SS	4	5,5,7,10	12			
SS	5	6,5,5,6 Wet Spoon	10			
SS	6	5,9,10,14 Wet Spoon	19		>4.5	20.8

Moisture Content w% (10, 20, 30, 40)

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



NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 4.9 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 7

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

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SUBSURFACE PROFILE

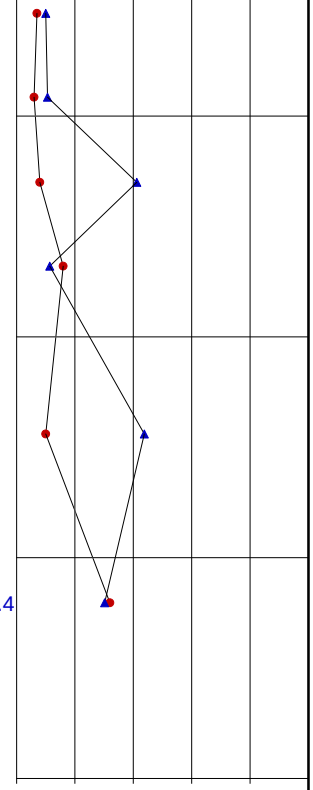
Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.33	Ground Surface
		99.03	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 250 millimetres of compact granular base
		98.26	**Sand Fill** — Brown, trace to some silt, trace clay and fine gravel, loose
6	2		**Sand** — Brown, trace silt and fine gravel, occasional silt seams, fine to medium in gradation, loose to compact
		93.83	**Clayey Silt** — Grey, trace of fine gravel and shale fragments, hard
22	6.7	92.62	End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	3,3,4,4	7			
SS	2	1,2,4,8	6			
SS	3	2,3,5,9	8			
SS	4	5,9,7,7	16			
SS	5	3,4,6,8 Wet Spoon	10			
SS	6	9,15,17, 16 Wet Spoon	32		>4.5	20.4

Moisture Content w% (10 20 30 40)

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



NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 4.9 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 8

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

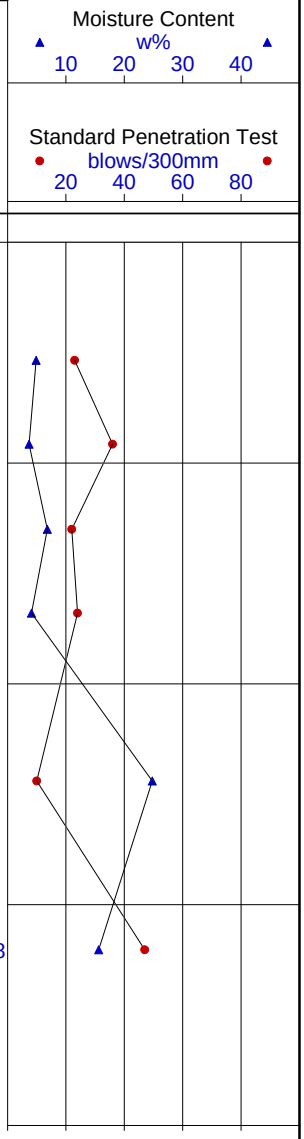
Soil-Mat

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.21	Ground Surface
		98.98	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 175 millimetres of compact granular base
			Sand — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, cemented in the upper level, compact to dense
		93.71	**Clayey Silt** — Grey, trace of fine gravel and shale fragments, hard
		92.50	End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	6,9,14,18	23			
SS	2	14,18,18, 17	36			
SS	3	8,10,12, 11	22			
SS	4	7,10,14, 13	24			
SS	5	3,4,6,6 Wet Spoon	10			
SS	6	14,22,25, 17 Wet Spoon	47		>4.5	19.8



NOTES:

1. Borehole was advanced using solid stem auger equipment onJuly 13, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 4.4 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 9

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.09	Ground Surface
		98.79	**Pavement Structure** — Approximately 75 millimetres of asphaltic concrete over approximately 225 millimetres of compact granular base
			Sand Fill — Brown, trace to some silt, trace clay and fine gravel, very loose to loose
6	2	96.89	
			Sand — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, loose to compact
		93.59	
18	6		**Clayey Silt** — Grey, trace of fine gravel and shale fragments, very stiff
		92.38	
			End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	2,3,2,2	5			
SS	2	1,1,1,1	2			
SS	3	2,4,6,7	10			
SS	4	4,6,8,6	14			
SS	5	3,4,4,6 Wet Spoon	8			
SS	6	4,7,11,15 Wet Spoon	18		>4.5	20.4

Moisture Content w% (10, 20, 30, 40)

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

NOTES:

1. Borehole was advanced using solid stem auger equipment on July 13, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 4.6 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: July 13, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 10

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

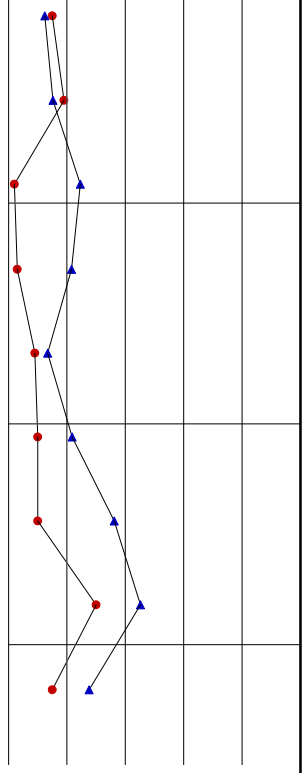
Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.20	Ground Surface
		98.90	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 250 millimetres of compact granular base
			Sand Fill — Brown, trace to some silt, trace clay and fine gravel, compact to very loose.
8	2	96.60	
			Sand — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, very loose to compact
20	6	93.20	
			Clayey Silt — Grey, trace of fine gravel and shale fragments, very stiff
22		92.49	
			End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	7,10,5,10	15			
SS	2	14,13,6,5	19			
SS	3	2,1,1,1	2			
SS	4	2,2,1,3	3			
SS	5	4,5,4,4	9			
SS	6	3,5,5,5	10			
SS	7	6,4,6,6 Wet Spoon	10			
SS	8	6,7,23,17 Wet Spoon	30			
SS	9	4,4,11,8 Wet Spoon	15		>4.5	

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 July 14, 2015 to termination at a depth of 6.7 metres.

2. Free groundwater was encountered at a depth of 5.5 metres upon completion of drilling. Borehole was 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 upon the completion of drilling and the following free groundwater levels have been measured:

July 21, 2015- 4.89m
August 13, 2015- 4.90m
August 14, 2015- 4.91m

Drill Method: Hollow-Stem Auger
Drill Date: July 14, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 Lancing Drive, Hamilton, ON L8W 3A1
Phone: (905) 318-7440 Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 11

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	98.98	Ground Surface
		98.76	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 175 millimetres of compact granular base
			Sand Fill — Brown, trace to some silt and gravel, loose to compact
6	2	96.78	
			Sand — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, loose to compact
18		93.34	
			Clayey Silt — Grey, trace of fine gravel and shale fragments, very stiff
22		92.27	
			End of Borehole

Well Data

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	8,6,11,8	17			
SS	2	6,5,4,4	9			
SS	3	2,2,1,5	4			
SS	4	4,5,6,7	11			
SS	5	5,5,6,6	11			
SS	6	6,6,9,10	15			
SS	7	5,4,5,6 Wet Spoon	9			
SS	8	7,7,14,25 Wet Spoon	21			
SS	9	8,8,13,16 Wet Spoon	21		>4.5	

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 July 14, 2015 to termination at a depth of 6.7 metres.

2. Free groundwater was encountered at a depth of 5.9 metres upon completion of drilling. Borehole was 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 upon the completion of drilling and the following free groundwater levels have been measured:

July 21, 2015- 4.80m
August 13, 2015- 4.82m
August 14, 2015- 4.82m

Drill Method: Hollow-Stem Auger
Drill Date: July 14, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 Lancing Drive, Hamilton, ON L8W 3A1
Phone: (905) 318-7440 Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 12

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

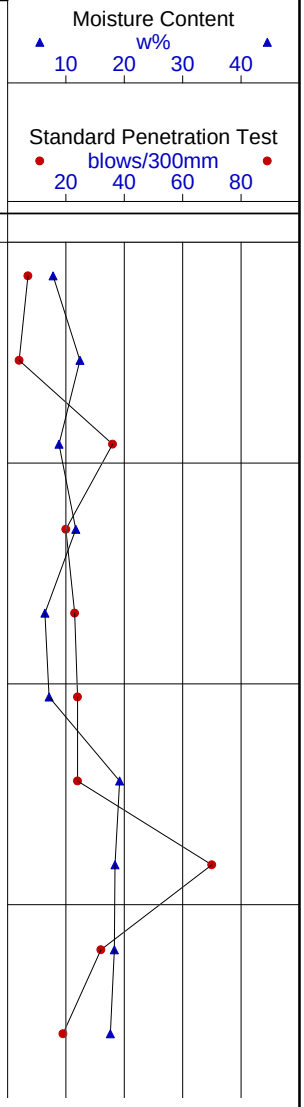
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	98.73	Ground Surface
		98.51	**Pavement Structure** — Approximately 75 millimetres of asphaltic concrete over approximately 150 millimetres of compact granular base
		97.23	**Sand Fill** — Brown, trace to some silt and gravel, trace organics in the upper level, loose to dense
6	2		**Sand** — Brown, trace silt and fine gravel, with occasional silt seams, fine to medium in gradation, compact to very dense
		92.32	**Clayey Silt** — Grey, trace of fine gravel and shale fragments, very stiff to hard
24		91.26	End of Borehole

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	5,4,3,4	7			
SS	2	2,2,2,2	4			
SS	3	8,16,20, 22	36			
SS	4	5,9,11,12	20			
SS	5	7,11,12,13	23			
SS	6	6,8,16,18	24			
SS	7	14,13,11, 9 Wet Spoon	24			
SS	8	9,10, 50/5" Wet Spoon	70			
SS	9	7,13,19, 25 Wet Spoon	32			
SS	10	7,9,10,14 Wet Spoon	19			

Well Data



NOTES:

1. Borehole was advanced using hollow stem auger equipment on August 5, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 5.7 metres upon completion of drilling. Borehole was 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 upon the completion of drilling and the following free groundwater levels have been measured:

   August 13, 2015- 4.68m
   August 14, 2015- 4.70m

Drill Method: Hollow-Stem Auger
Drill Date: August 5, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

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Phone: (905) 318-7440 Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 13

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	99.29	Ground Surface
		99.07	**Pavement Structure** — Approximately 75 millimetres of asphaltic concrete over approximately 150 millimetres of compact granular base
			Sand Fill — Brown, trace to some silt and gravel, trace organics in the lower level, compact
8	2	96.69	
			Sand — Brown, trace of silt and fine gravel, with occasional silt seams, fine to medium in gradation, compact
22	6	92.49	
			Clayey Silt — Grey, trace of fine gravel and shale fragments, very stiff
24		91.67	
26	8		End of Borehole

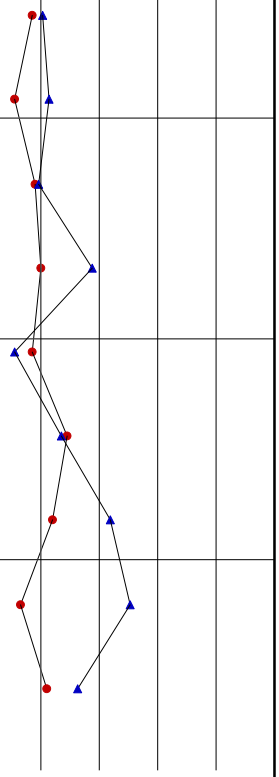
Well Data

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	3,8,9,8	17			
SS	2	4,7,4,5	11			
SS	3	2,6,12,12	18			
SS	4	5,9,11,10	20			
SS	5	6,8,9,13	17			
SS	6	6,12,17, 18 Wet Spoon	29			
SS	7	7,10,14, 14 Wet Spoon	24			
SS	8	2,3,10,32 Wet Spoon	13			
SS	9	6,9,13,18 Wet Spoon	22			

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 August 5, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 5.7 metres upon completion of drilling. Borehole was 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 upon the completion of drilling and the following free groundwater levels have been measured:
   August 13, 2015- 5.27m
   August 14, 2015- 5.27m

Drill Method: Hollow-Stem Auger
Drill Date: August 5, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 Lancing Drive, Hamilton, ON L8W 3A1
Phone: (905) 318-7440 Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Project No: SM 156176-E

Project: Phase II ESA

Location: 355 Plains Rd. E, Burlington, ON

Client: My Way Investments Limited

Log of Borehole No. 14

Project Manager: Ian Shaw, P.Eng.

Borehole Location: See Drawing No. 1

Soil-Mat

SUBSURFACE PROFILE

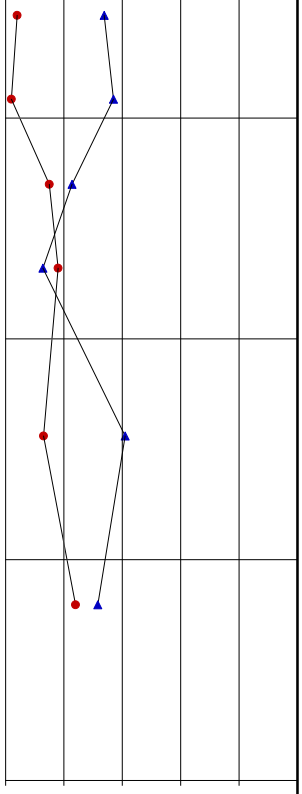
Depth (ft)	Depth (m)	Elevation [m]	Description
0	0	98.79	Ground Surface
		98.54	**Pavement Structure** — Approximately 50 millimetres of asphaltic concrete over approximately 200 millimetres of compact granular base
			Sand Fill — Brown, trace to some silt, trace gravel and clay, very loose to compact
	2	96.59	
			Sand — Brown, trace of silt and fine gravel, with occasional silt seams, fine to medium in gradation, compact
	4	93.29	
			Clayey Silt — Grey, trace of fine gravel and shale fragments, very stiff
	6	92.08	
			End of Borehole
	8		

SAMPLE

Type	Number	Blow Counts	Blows/300mm	Recovery	PP (kgf/cm2)	U.Wt.(kN/m3)
SS	1	2,2,2,2	4			
SS	2	1,1,1,2	2			
SS	3	2,6,9,14	15			
SS	4	5,8,10,13	18			
SS	5	5,6,7,8 Wet Spoon	13			
SS	6	6,10,14, 21 Wet Spoon	24		>4.5	

Moisture Content w% (10, 20, 30, 40)

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



NOTES:

1. Borehole was advanced using solid stem auger equipment on August 5, 2015 to termination at a depth of 6.7 metres.
2. Free groundwater was encountered at a depth of 5.2 metres upon completion of drilling. Borehole was backfilled as per Ontario Regulation 903.
3. Soil samples will be discarded after 3 months unless otherwise directed by our client.

Drill Method: Solid-Stem Auger
Drill Date: August 5, 2015
Hole Size: 200mm
Drill Contractor: Davis Drilling

SOIL-MAT ENGINEERS & CONSULTANTS LTD.
130 Lancing Drive, Hamilton, ON L8W 3A1
Phone: (905) 318-7440 Fax: (905) 318-7455
e-mail: info@soil-mat.on.ca

Datum: Geodetic Benchmark
Field Logged by: M. Brown
Checked by: IS
Sheet: 1 of 1

Appendix ‘C’

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
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Keith Gleadall

PROJECT: 156175

AGAT WORK ORDER: 15H998055

TRACE ORGANICS REVIEWED BY: Inga Kuzmina, Trace Organics Lab Manager

DATE REPORTED: Jul 27, 2015

PAGES (INCLUDING COVER): 7

VERSION*: 1

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

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 15H998055

PROJECT: 156175

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Keith Gleadall

SAMPLING SITE:

SAMPLED BY:Mr. Brown

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

DATE RECEIVED: 2015-07-21

DATE REPORTED: 2015-07-27

		SAMPLE DESCRIPTION:		BH10 SS8	BH10 SS9	BH11 SS8	BH11 SS9
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		7/19/2015	7/19/2015	7/19/2015	7/19/2015
Parameter	Unit	G / S	RDL	6763777	6763779	6763781	6763783
Dichlorodifluoromethane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	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
Trichlorofluoromethane	ug/g	0.25	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.5	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
Methylene Chloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	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
1,1,1-Trichloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	0.5	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
Toluene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	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
Tetrachloroethylene	ug/g	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
Chlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	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

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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

Certificate of Analysis

AGAT WORK ORDER: 15H998055

PROJECT: 156175

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Keith Gleadall

SAMPLING SITE:

SAMPLED BY:Mr. Brown

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

DATE RECEIVED: 2015-07-21

DATE REPORTED: 2015-07-27

		SAMPLE DESCRIPTION:		BH10 SS8	BH10 SS9	BH11 SS8	BH11 SS9
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		7/19/2015	7/19/2015	7/19/2015	7/19/2015
Parameter	**Unit**	**G / S**	**RDL**	**6763777**	**6763779**	**6763781**	**6763783**
Bromoform	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	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
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	19.0	19.1	18.0	14.1
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	50-140		108	109	107	105
4-Bromofluorobenzene	% Recovery	50-140		99	94	102	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

6763777 The sample was analysed 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.
Results are biased low due to overweight soil amount in the vial.

6763779 The sample was analysed 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.

6763781 The sample was analysed 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.
Results are biased low due to overweight soil amount in the vial.

6763783 The sample was analysed 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.

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H998055

PROJECT: 156175

ATTENTION TO: Keith Gleadall

SAMPLING SITE:

SAMPLED BY:Mr. Brown

Trace Organics Analysis

RPT Date: Jul 27, 2015			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) - VOCs (Soil)															
Dichlorodifluoromethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	115%	50%	140%	97%	50%	140%	126%	50%	140%
Vinyl Chloride	6763783	6763783	< 0.02	< 0.02	0.0%	< 0.02	119%	50%	140%	114%	50%	140%	113%	50%	140%
Bromomethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	87%	50%	140%	97%	50%	140%	114%	50%	140%
Trichlorofluoromethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	99%	50%	140%	116%	50%	140%
Acetone	6763783	6763783	< 0.50	< 0.50	0.0%	< 0.50	121%	50%	140%	102%	50%	140%	126%	50%	140%
1,1-Dichloroethylene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	109%	50%	140%	90%	60%	130%	109%	50%	140%
Methylene Chloride	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	96%	60%	130%	125%	50%	140%
Trans- 1,2-Dichloroethylene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	90%	60%	130%	123%	50%	140%
Methyl tert-butyl Ether	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	107%	50%	140%	95%	60%	130%	125%	50%	140%
1,1-Dichloroethane	6763783	6763783	< 0.02	< 0.02	0.0%	< 0.02	106%	50%	140%	88%	60%	130%	123%	50%	140%
Methyl Ethyl Ketone	6763783	6763783	< 0.50	< 0.50	0.0%	< 0.50	94%	50%	140%	100%	50%	140%	116%	50%	140%
Cis- 1,2-Dichloroethylene	6763783	6763783	< 0.02	< 0.02	0.0%	< 0.02	98%	50%	140%	80%	60%	130%	125%	50%	140%
Chloroform	6763783	6763783	< 0.04	< 0.04	0.0%	< 0.04	87%	50%	140%	76%	60%	130%	116%	50%	140%
1,2-Dichloroethane	6763783	6763783	< 0.03	< 0.03	0.0%	< 0.03	104%	50%	140%	94%	60%	130%	117%	50%	140%
1,1,1-Trichloroethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	82%	50%	140%	77%	60%	130%	98%	50%	140%
Carbon Tetrachloride	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	82%	50%	140%	71%	60%	130%	74%	50%	140%
Benzene	6763783	6763783	< 0.02	< 0.02	0.0%	< 0.02	101%	50%	140%	85%	60%	130%	88%	50%	140%
1,2-Dichloropropane	6763783	6763783	< 0.03	< 0.03	0.0%	< 0.03	89%	50%	140%	80%	60%	130%	83%	50%	140%
Trichloroethylene	6763783	6763783	< 0.03	< 0.03	0.0%	< 0.03	88%	50%	140%	79%	60%	130%	82%	50%	140%
Bromodichloromethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	83%	50%	140%	73%	60%	130%	75%	50%	140%
Methyl Isobutyl Ketone	6763783	6763783	< 0.50	< 0.50	0.0%	< 0.50	69%	50%	140%	79%	50%	140%	85%	50%	140%
1,1,2-Trichloroethane	6763783	6763783	< 0.04	< 0.04	0.0%	< 0.04	83%	50%	140%	78%	60%	130%	84%	50%	140%
Toluene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	83%	50%	140%	75%	60%	130%	92%	50%	140%
Dibromochloromethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	65%	50%	140%	63%	60%	130%	68%	50%	140%
Ethylene Dibromide	6763783	6763783	< 0.04	< 0.04	0.0%	< 0.04	81%	50%	140%	77%	60%	130%	81%	50%	140%
Tetrachloroethylene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	78%	50%	140%	71%	60%	130%	83%	50%	140%
1,1,1,2-Tetrachloroethane	6763783	6763783	< 0.04	< 0.04	0.0%	< 0.04	69%	50%	140%	63%	60%	130%	72%	50%	140%
Chlorobenzene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	80%	50%	140%	76%	60%	130%	91%	50%	140%
Ethylbenzene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	77%	50%	140%	72%	60%	130%	89%	50%	140%
m & p-Xylene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	79%	60%	130%	100%	50%	140%
Bromoform	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	70%	50%	140%	63%	60%	130%	61%	50%	140%
Styrene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	73%	50%	140%	71%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	85%	60%	130%	88%	50%	140%
o-Xylene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	87%	50%	140%	81%	60%	130%	98%	50%	140%
1,3-Dichlorobenzene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	75%	50%	140%	74%	60%	130%	83%	50%	140%
1,4-Dichlorobenzene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	80%	50%	140%	81%	60%	130%	90%	50%	140%
1,2-Dichlorobenzene	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	78%	50%	140%	77%	60%	130%	85%	50%	140%
1,3-Dichloropropene	6763783	6763783	< 0.04	< 0.04	0.0%	< 0.04	122%	50%	140%	101%	60%	130%	109%	50%	140%
n-Hexane	6763783	6763783	< 0.05	< 0.05	0.0%	< 0.05	101%	50%	140%	81%	60%	130%	96%	50%	140%

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AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H998055

PROJECT: 156175

ATTENTION TO: Keith Gleadall

SAMPLING SITE:

SAMPLED BY:Mr. Brown

Trace Organics Analysis (Continued)

RPT Date: Jul 27, 2015			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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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H998055

PROJECT: 156175

ATTENTION TO: Keith Gleadall

SAMPLING SITE:

SAMPLED BY:Mr. Brown

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Moisture Content	VOL-91-5002	MOE E3139	BALANCE

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AGAT Laboratories

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

Smecook

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H 998055

Cooler Quantity: 1 cooler (sm)

Arrival Temperatures: 7.9 | 7.6 | 7.4
5.2 | 4.9 | 4.6

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes:

Report Information:

Company: Soil-Mat Engineers
Contact: Keith Gleadall
Address: 130 Lancing Drive
Hamilton, ON
Phone: 905-318-7440 Fax:
Reports to be sent to:
1. Email: keith.gleadall@soil-mat.on.ca
2. Email: mike.brown@soil-mat.on.ca

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☑ Regulation 153/04
Table 1 *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ Coarse
☑ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm

Region _____ *Indicate One*

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other _____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ 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 ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

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

Project Information:

Project: 15e175
Site Location: 355 Plains Rd. E, Burlington, ON
Sampled By: M. Brown
AGAT Quote #: 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:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐ B-HWS ☐ Cl ☐ CN⁻ ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☒ BTEX ☒ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
BH10 SS8	July 19/15		2	S								X							
BH10 SS9	↓		2	↓								X							
BH11 SS8			2									X							
BH11 SS9			2									X							

Samples Relinquished By (Print Name and Sign): Peter Mavrek
Date: July 21/15 Time:
Samples Received By (Print Name and Sign): JULIA ANGRILLI
Date: JULY 21 Time: 1:17p

Samples Relinquished By (Print Name and Sign): JULIA ANGRILLI
Date: JULY 21 Time: 3pm
Samples Received By (Print Name and Sign):
Date: 2015-7-21 Time: 3:02

Page 1 of 1

N°: T 005286

Document ID: DW-76-IS11.005 2

2015-7-21 4:30

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

Date Issued: Jan 8, 2010

AGAT Laboratories

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

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Ian Shaw

PROJECT: 156176

AGAT WORK ORDER: 15H004791

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Aug 14, 2015

PAGES (INCLUDING COVER): 11

VERSION*: 1

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

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

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Certificate of Analysis

AGAT WORK ORDER: 15H004791

PROJECT: 156176

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

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

DATE RECEIVED: 2015-08-07

DATE REPORTED: 2015-08-14

		SAMPLE DESCRIPTION:		BH7 SS1	BH9 SS1	BH14 SS1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		7/13/2015	7/13/2015	7/13/2015
Parameter	Unit	G / S	RDL	6825412	6825413	6825414
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	3	5
Barium	µg/g	220	2	11	14	27
Beryllium	µg/g	2.5	0.5	<0.5	<0.5	0.6
Boron	µg/g	36	5	<5	<5	5
Boron (Hot Water Soluble)	µg/g	NA	0.10	<0.10	<0.10	0.11
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	2	5	7	10
Cobalt	µg/g	21	0.5	3.1	4.1	6.9
Copper	µg/g	92	1	12	17	27
Lead	µg/g	120	1	4	5	8
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	82	1	6	9	14
Selenium	µg/g	1.5	0.4	<0.4	<0.4	<0.4
Silver	µg/g	0.5	0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4
Uranium	µg/g	2.5	0.5	<0.5	<0.5	<0.5
Vanadium	µg/g	86	1	9	12	19
Zinc	µg/g	290	5	15	19	30
Chromium VI	µg/g	0.66	0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10
Electrical Conductivity	mS/cm	0.57	0.005	0.554	0.306	0.357
Sodium Adsorption Ratio	NA	2.4	NA	14.5	3.41	6.06
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.78	7.22	7.01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

6825412-6825414 EC & SAR were 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.

Certified By: Amanjot Bhela

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Certificate of Analysis

AGAT WORK ORDER: 15H004791

PROJECT: 156176

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

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

DATE RECEIVED: 2015-08-07

DATE REPORTED: 2015-08-14

SAMPLE DESCRIPTION:				BH12 SS9	BH12 SS10	BH13 SS8	BH13 SS9
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				8/5/2015	8/5/2015	8/5/2015	8/5/2015
Parameter	Unit	G / S	RDL	6825416	6825420	6825422	6825434
Dichlorodifluoromethane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	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
Trichlorofluoromethane	ug/g	0.25	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.5	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
Methylene Chloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	0.5	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	0.05	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	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
1,1,1-Trichloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	0.5	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
Toluene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	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
Tetrachloroethylene	ug/g	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
Chlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	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

Certified By: N Popnikolof

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AGAT Laboratories

5835 COOPERS AVENUE
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Certificate of Analysis

AGAT WORK ORDER: 15H004791

PROJECT: 156176

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

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

DATE RECEIVED: 2015-08-07

DATE REPORTED: 2015-08-14

		SAMPLE DESCRIPTION:		BH12 SS9	BH12 SS10	BH13 SS8	BH13 SS9
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/5/2015	8/5/2015	8/5/2015	8/5/2015
Parameter	Unit	G / S	RDL	6825416	6825420	6825422	6825434
Bromoform	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	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
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	17.1	16.1	18.0	15.0
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	50-140		105	104	105	104
4-Bromofluorobenzene	% Recovery	50-140		97	94	98	94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

6825416-6825434 The sample was analysed 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.

Certified By:



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Guideline Violation

AGAT WORK ORDER: 15H004791

PROJECT: 156176

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CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
6825412	BH7 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	14.5
6825413	BH9 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	3.41
6825414	BH14 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	6.06

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 15H004791
PROJECT: 156176
ATTENTION TO: Ian Shaw
SAMPLING SITE:
SAMPLED BY:JY

Soil Analysis

RPT Date: Aug 14, 2015			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	6825405	6825405	<0.8	<0.8	0.0%	< 0.8	96%	70%	130%	94%	80%	120%	93%	70%	130%
Arsenic	6825405	6825405	3	3	0.0%	< 1	106%	70%	130%	88%	80%	120%	91%	70%	130%
Barium	6825405	6825405	12	11	8.7%	< 2	101%	70%	130%	100%	80%	120%	104%	70%	130%
Beryllium	6825405	6825405	<0.5	<0.5	0.0%	< 0.5	96%	70%	130%	115%	80%	120%	104%	70%	130%
Boron	6825405	6825405	<5	<5	0.0%	< 5	86%	70%	130%	106%	80%	120%	96%	70%	130%
Boron (Hot Water Soluble)	6825411	6825411	0.38	0.37	2.7%	< 0.10	108%	60%	140%	99%	70%	130%	96%	60%	140%
Cadmium	6825405	6825405	<0.5	<0.5	0.0%	< 0.5	100%	70%	130%	96%	80%	120%	98%	70%	130%
Chromium	6825405	6825405	5	5	0.0%	< 2	83%	70%	130%	101%	80%	120%	97%	70%	130%
Cobalt	6825405	6825405	3.3	3.0	9.5%	< 0.5	92%	70%	130%	106%	80%	120%	100%	70%	130%
Copper	6825405	6825405	15	14	6.9%	< 1	88%	70%	130%	105%	80%	120%	94%	70%	130%
Lead	6825405	6825405	4	4	0.0%	< 1	102%	70%	130%	96%	80%	120%	87%	70%	130%
Molybdenum	6825405	6825405	<0.5	<0.5	0.0%	< 0.5	98%	70%	130%	100%	80%	120%	104%	70%	130%
Nickel	6825405	6825405	6	6	0.0%	< 1	94%	70%	130%	106%	80%	120%	97%	70%	130%
Selenium	6825405	6825405	<0.4	<0.4	0.0%	< 0.4	82%	70%	130%	97%	80%	120%	96%	70%	130%
Silver	6825405	6825405	<0.2	<0.2	0.0%	< 0.2	90%	70%	130%	109%	80%	120%	103%	70%	130%
Thallium	6825405	6825405	<0.4	<0.4	0.0%	< 0.4	89%	70%	130%	105%	80%	120%	98%	70%	130%
Uranium	6825405	6825405	<0.5	<0.5	0.0%	< 0.5	91%	70%	130%	92%	80%	120%	88%	70%	130%
Vanadium	6825405	6825405	9	8	11.8%	< 1	86%	70%	130%	101%	80%	120%	101%	70%	130%
Zinc	6825405	6825405	17	15	12.5%	< 5	97%	70%	130%	109%	80%	120%	102%	70%	130%
Chromium VI	6825180		<0.2	<0.2	0.0%	< 0.2	99%	70%	130%	97%	80%	120%	95%	70%	130%
Cyanide	6826933		<0.040	<0.040	0.0%	< 0.040	105%	70%	130%	115%	80%	120%	118%	70%	130%
Mercury	6825405	6825405	<0.10	<0.10	0.0%	< 0.10	101%	70%	130%	91%	80%	120%	85%	70%	130%
Electrical Conductivity	6825411	6825411	1.00	1.00	0.0%	< 0.005	100%	90%	110%	NA			NA		
Sodium Adsorption Ratio	6825411	6825411	21.8	22.2	1.8%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	6827350		8.07	7.95	1.5%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By: Amanjot Bhela

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 15H004791
PROJECT: 156176
ATTENTION TO: Ian Shaw
SAMPLING SITE:
SAMPLED BY:JY

Trace Organics Analysis

RPT Date: Aug 14, 2015			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) - VOCs (Soil)															
Dichlorodifluoromethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	99%	50%	140%	83%	50%	140%
Vinyl Chloride	6826896		< 0.02	< 0.02	0.0%	< 0.02	115%	50%	140%	117%	50%	140%	70%	50%	140%
Bromomethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	89%	50%	140%	96%	50%	140%	89%	50%	140%
Trichlorofluoromethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	105%	50%	140%	109%	50%	140%
Acetone	6826896		< 0.50	< 0.50	0.0%	< 0.50	105%	50%	140%	106%	50%	140%	107%	50%	140%
1,1-Dichloroethylene	6826896		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	108%	60%	130%	110%	50%	140%
Methylene Chloride	6826896		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	105%	60%	130%	117%	50%	140%
Trans- 1,2-Dichloroethylene	6826896		< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	106%	60%	130%	107%	50%	140%
Methyl tert-butyl Ether	6826896		< 0.05	< 0.05	0.0%	< 0.05	124%	50%	140%	121%	60%	130%	106%	50%	140%
1,1-Dichloroethane	6826896		< 0.02	< 0.02	0.0%	< 0.02	118%	50%	140%	114%	60%	130%	114%	50%	140%
Methyl Ethyl Ketone	6826896		< 0.50	< 0.50	0.0%	< 0.50	102%	50%	140%	86%	50%	140%	86%	50%	140%
Cis- 1,2-Dichloroethylene	6826896		< 0.02	< 0.02	0.0%	< 0.02	116%	50%	140%	79%	60%	130%	89%	50%	140%
Chloroform	6826896		< 0.04	< 0.04	0.0%	< 0.04	118%	50%	140%	84%	60%	130%	90%	50%	140%
1,2-Dichloroethane	6826896		< 0.03	< 0.03	0.0%	< 0.03	108%	50%	140%	76%	60%	130%	91%	50%	140%
1,1,1-Trichloroethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	90%	60%	130%	81%	50%	140%
Carbon Tetrachloride	6826896		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	90%	60%	130%	78%	50%	140%
Benzene	6826896		< 0.02	< 0.02	0.0%	< 0.02	107%	50%	140%	83%	60%	130%	90%	50%	140%
1,2-Dichloropropane	6826896		< 0.03	< 0.03	0.0%	< 0.03	105%	50%	140%	90%	60%	130%	89%	50%	140%
Trichloroethylene	6826896		< 0.03	< 0.03	0.0%	< 0.03	107%	50%	140%	98%	60%	130%	106%	50%	140%
Bromodichloromethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	78%	60%	130%	75%	50%	140%
Methyl Isobutyl Ketone	6826896		< 0.50	< 0.50	0.0%	< 0.50	76%	50%	140%	77%	50%	140%	80%	50%	140%
1,1,2-Trichloroethane	6826896		< 0.04	< 0.04	0.0%	< 0.04	99%	50%	140%	89%	60%	130%	89%	50%	140%
Toluene	6826896		< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	96%	60%	130%	97%	50%	140%
Dibromochloromethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	101%	60%	130%	81%	50%	140%
Ethylene Dibromide	6826896		< 0.04	< 0.04	0.0%	< 0.04	88%	50%	140%	85%	60%	130%	91%	50%	140%
Tetrachloroethylene	6826896		< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	100%	60%	130%	97%	50%	140%
1,1,1,2-Tetrachloroethane	6826896		< 0.04	< 0.04	0.0%	< 0.04	107%	50%	140%	90%	60%	130%	78%	50%	140%
Chlorobenzene	6826896		< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	97%	60%	130%	98%	50%	140%
Ethylbenzene	6826896		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	93%	60%	130%	95%	50%	140%
m & p-Xylene	6826896		< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	91%	60%	130%	92%	50%	140%
Bromoform	6826896		< 0.05	< 0.05	0.0%	< 0.05	114%	50%	140%	99%	60%	130%	82%	50%	140%
Styrene	6826896		< 0.05	< 0.05	0.0%	< 0.05	114%	50%	140%	109%	60%	130%	118%	50%	140%
1,1,2,2-Tetrachloroethane	6826896		< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	80%	60%	130%	77%	50%	140%
o-Xylene	6826896		< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	93%	60%	130%	95%	50%	140%
1,3-Dichlorobenzene	6826896		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	92%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	6826896		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	95%	60%	130%	99%	50%	140%
1,2-Dichlorobenzene	6826896		< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	90%	60%	130%	95%	50%	140%
1,3-Dichloropropene	6826896		< 0.04	< 0.04	0.0%	< 0.04	114%	50%	140%	103%	60%	130%	83%	50%	140%
n-Hexane	6826896		< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	106%	60%	130%	82%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H004791

PROJECT: 156176

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

Trace Organics Analysis (Continued)

RPT Date: Aug 14, 2015			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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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H004791

PROJECT: 156176

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

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Method Summary

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H004791

PROJECT: 156176

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:JY

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Moisture Content	VOL-91-5002	MOE E3139	BALANCE

Results relate only to the items tested and to all the items tested

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

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only
Work Order #: 15H004791
Cooler Quantity:
Arrival Temperatures: 10.1 | 9.9 | 9.7 / 8.7 | 8.0 | 8.0
Custody Seal Intact: ☐Yes ☐No ☐N/A
Notes:

Report Information:
Company: Soil-Mat Engineers
Contact: Ian Shaw
Address: 130 Lancing Drive Hamilton, ON
Phone: 905-728-7440 Fax:
Reports to be sent to:
1. Email: ian.shaw@soil-mat.on.ca
2. Email: mike.brown@soil-mat.on.ca

Regulatory Requirements: ☐ No Regulatory Requirement
(Please check all applicable boxes)
☑ Regulation 153/04 Table 1 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine
☐ Sewer Use ☐ Sanitary ☐ Storm
Region ____ (Indicate One)
☐ Regulation 558 ☐ CCME ☐ 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 ☐ 1 Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Project Information:
Project: 156175
Site Location: 355 Plains Rd. E / 1010 Downsview Dr., Burlington
Sampled By: M. Brown
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?** ☐ Yes ☐ No

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

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

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐B-HWS ☐Cl ☐CN ☐Cr⁶⁺ ☐EC ☐FOC ☐NO_3/NO_2 ☐Total N ☐Hg ☐pH ☐SAR	Nutrients: ☐TP ☐NH_3 ☐TKN ☐NO_3 ☐NO_2 ☐NO_3/NO_2	Volatiles: ☑VOC ☐BTEX ☐THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
BH1 SS1	Jul 13/15		1	S		X													
BH2 SS1	"		1	"		X													
BH4 SS1	"		1	"		X													
BH7 SS1	"		1	"		X													
BH9 SS1	"		1	"		X													
BH14 SS1	"		1	"		X													
BH12 SS9	Aug 5/15		2	"								X							
BH12 SS10	"		2	"								X							
BH13 SS8	"		2	"								X							
BH13 SS9	"		2	"								X							

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
Jeremy Yang	12:30pm August 7/15		Kiran Deep	Aug 7/15	12:30
Chris Tabao	12:50pm 08/07/15			2015/08/07	12:50

Page 1 of 1
№: T 008512

Document ID: Rev 78-1514-006
Pink Copy - Client | Yellow Copy - AGAT | White Copy- AGAT
Date Issued: Jan 8, 2015

Appendix ‘D’

1. AGAT Certificate of Analysis [Water]

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
130 LANCING DRIVE
HAMILTON, ON L8W3A1
(905) 318-7440

ATTENTION TO: Ian Shaw

PROJECT: 156175

AGAT WORK ORDER: 15H007454

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Aug 20, 2015

PAGES (INCLUDING COVER): 7

VERSION*: 1

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

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

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: 15H007454

PROJECT: 156175

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:M. Brown

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

DATE RECEIVED: 2015-08-14

DATE REPORTED: 2015-08-20

		SAMPLE DESCRIPTION:		MW10 S1	MW11 S1	MW12 S1	MW13 S1
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		8/14/2015	8/14/2015	8/14/2015	8/14/2015
Parameter	Unit	G / S	RDL	6862509	6862510	6862513	6862516
Dichlorodifluoromethane	µg/L	590	0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	0.89	0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	150	0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	2700	1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5	0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	15	0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	400	1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	2	0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	2	0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	640	1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	0.5	0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.8	0.20	0.33	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	2	0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.2	0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	0.5	0.20	<0.20	<0.20	<0.20	0.35
1,1,1,2-Tetrachloroethane	µg/L	1.1	0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20

Certified By: N Popowich

Results relate only to the items tested and to all the items tested

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

Certificate of Analysis

AGAT WORK ORDER: 15H007454

PROJECT: 156175

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:M. Brown

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

DATE RECEIVED: 2015-08-14

DATE REPORTED: 2015-08-20

		SAMPLE DESCRIPTION:		MW10 S1	MW11 S1	MW12 S1	MW13 S1
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		8/14/2015	8/14/2015	8/14/2015	8/14/2015
Parameter	Unit	G / S	RDL	6862509	6862510	6862513	6862516
Bromoform	µg/L	5	0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	0.5	0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	0.5	0.30	<0.30	<0.30	<0.30	<0.30
Xylene Mixture	µg/L	72	0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	5	0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits					
Toluene-d8	% Recovery	50-140		102	97	97	94
4-Bromofluorobenzene	% Recovery	50-140		97	92	93	83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT
AGAT WORK ORDER: 15H007454
PROJECT: 156175
ATTENTION TO: Ian Shaw
SAMPLING SITE:
SAMPLED BY:M. Brown

Trace Organics Analysis

RPT Date: Aug 20, 2015			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) - VOCs (Water)															
Dichlorodifluoromethane	6859611		< 0.20	< 0.20	0.0%	< 0.20	96%	50%	140%	110%	50%	140%	94%	50%	140%
Vinyl Chloride	6859611		< 0.17	< 0.17	0.0%	< 0.17	81%	50%	140%	90%	50%	140%	84%	50%	140%
Bromomethane	6859611		< 0.20	< 0.20	0.0%	< 0.20	87%	50%	140%	114%	50%	140%	98%	50%	140%
Trichlorofluoromethane	6859611		< 0.40	< 0.40	0.0%	< 0.40	91%	50%	140%	109%	50%	140%	95%	50%	140%
Acetone	6859611		< 1.0	< 1.0	0.0%	< 1.0	116%	50%	140%	106%	50%	140%	112%	50%	140%
1,1-Dichloroethylene	6859611		< 0.30	< 0.30	0.0%	< 0.30	108%	50%	140%	107%	60%	130%	111%	50%	140%
Methylene Chloride	6859611		< 0.30	< 0.30	0.0%	< 0.30	117%	50%	140%	117%	60%	130%	103%	50%	140%
trans- 1,2-Dichloroethylene	6859611		< 0.20	< 0.20	0.0%	< 0.20	85%	50%	140%	86%	60%	130%	90%	50%	140%
Methyl tert-butyl ether	6859611		< 0.20	< 0.20	0.0%	< 0.20	99%	50%	140%	97%	60%	130%	102%	50%	140%
1,1-Dichloroethane	6859611		< 0.30	< 0.30	0.0%	< 0.30	86%	50%	140%	88%	60%	130%	100%	50%	140%
Methyl Ethyl Ketone	6859611		< 1.0	< 1.0	0.0%	< 1.0	125%	50%	140%	109%	50%	140%	124%	50%	140%
cis- 1,2-Dichloroethylene	6859611		< 0.20	< 0.20	0.0%	< 0.20	115%	50%	140%	96%	60%	130%	116%	50%	140%
Chloroform	6859611		< 0.20	< 0.20	0.0%	< 0.20	107%	50%	140%	112%	60%	130%	120%	50%	140%
1,2-Dichloroethane	6859611		< 0.20	< 0.20	0.0%	< 0.20	104%	50%	140%	99%	60%	130%	107%	50%	140%
1,1,1-Trichloroethane	6859611		< 0.30	< 0.30	0.0%	< 0.30	80%	50%	140%	90%	60%	130%	89%	50%	140%
Carbon Tetrachloride	6859611		< 0.20	< 0.20	0.0%	< 0.20	94%	50%	140%	94%	60%	130%	98%	50%	140%
Benzene	6859611		< 0.20	< 0.20	0.0%	< 0.20	96%	50%	140%	94%	60%	130%	101%	50%	140%
1,2-Dichloropropane	6859611		< 0.20	< 0.20	0.0%	< 0.20	87%	50%	140%	89%	60%	130%	91%	50%	140%
Trichloroethylene	6859611		< 0.20	< 0.20	0.0%	< 0.20	99%	50%	140%	102%	60%	130%	98%	50%	140%
Bromodichloromethane	6859611		< 0.20	< 0.20	0.0%	< 0.20	98%	50%	140%	96%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	6859611		< 1.0	< 1.0	0.0%	< 1.0	91%	50%	140%	88%	50%	140%	87%	50%	140%
1,1,2-Trichloroethane	6859611		< 0.20	< 0.20	0.0%	< 0.20	117%	50%	140%	112%	60%	130%	106%	50%	140%
Toluene	6859611		< 0.20	< 0.20	0.0%	< 0.20	101%	50%	140%	109%	60%	130%	101%	50%	140%
Dibromochloromethane	6859611		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	98%	60%	130%	98%	50%	140%
Ethylene Dibromide	6859611		< 0.10	< 0.10	0.0%	< 0.10	105%	50%	140%	104%	60%	130%	100%	50%	140%
Tetrachloroethylene	6859611		< 0.20	< 0.20	0.0%	< 0.20	110%	50%	140%	120%	60%	130%	105%	50%	140%
1,1,1,2-Tetrachloroethane	6859611		< 0.10	< 0.10	0.0%	< 0.10	107%	50%	140%	98%	60%	130%	92%	50%	140%
Chlorobenzene	6859611		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	110%	60%	130%	103%	50%	140%
Ethylbenzene	6859611		< 0.10	< 0.10	0.0%	< 0.10	91%	50%	140%	99%	60%	130%	94%	50%	140%
m & p-Xylene	6859611		< 0.20	< 0.20	0.0%	< 0.20	101%	50%	140%	109%	60%	130%	102%	50%	140%
Bromoform	6859611		< 0.10	< 0.10	0.0%	< 0.10	121%	50%	140%	108%	60%	130%	103%	50%	140%
Styrene	6859611		< 0.10	< 0.10	0.0%	< 0.10	92%	50%	140%	96%	60%	130%	91%	50%	140%
1,1,2,2-Tetrachloroethane	6859611		< 0.10	< 0.10	0.0%	< 0.10	125%	50%	140%	115%	60%	130%	114%	50%	140%
o-Xylene	6859611		< 0.10	< 0.10	0.0%	< 0.10	109%	50%	140%	104%	60%	130%	102%	50%	140%
1,3-Dichlorobenzene	6859611		< 0.10	< 0.10	0.0%	< 0.10	103%	50%	140%	103%	60%	130%	97%	50%	140%
1,4-Dichlorobenzene	6859611		< 0.10	< 0.10	0.0%	< 0.10	106%	50%	140%	107%	60%	130%	101%	50%	140%
1,2-Dichlorobenzene	6859611		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	103%	60%	130%	98%	50%	140%
1,3-Dichloropropene	6859611		< 0.30	< 0.30	0.0%	< 0.30	98%	50%	140%	91%	60%	130%	92%	50%	140%
n-Hexane	6859611		< 0.20	< 0.20	0.0%	< 0.20	89%	50%	140%	98%	60%	130%	98%	50%	140%

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Quality Assurance

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

AGAT WORK ORDER: 15H007454

PROJECT: 156175

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:M. Brown

Trace Organics Analysis (Continued)

RPT Date: Aug 20, 2015			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:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

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: 15H007454

PROJECT: 156175

ATTENTION TO: Ian Shaw

SAMPLING SITE:

SAMPLED BY:M. Brown

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Dichlorodifluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Acetone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Benzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Styrene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS

Results relate only to the items tested and to all the items tested

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www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H 007454

Cooler Quantity: 1 COOLER (SM)

Arrival Temperatures: 7.1 | 6.8 | 6.9
8.1 | 5.8 | 5.9

Custody Seal Intact: ☐ Yes ☐ No ☑ N/A

Notes:

Report Information:

Company: Sorl-Mat Engineers
Contact: Ian Shaw
Address: 130 Lancing Drive
Hamilton, ON
Phone: 905-318-7440 Fax:
Reports to be sent to:
1. Email: mike.brown@sorl-mat.on.ca
2. Email: ian.shaw@sorl-mat.on.ca

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☑ Regulation 153/04
Table ___ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture

Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm

Region ___ *Indicate One*

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other ___ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ 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 ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply): ___

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

Project Information:

Project: 156175
Site Location: 355 Plains Rd. E, Burlington, ON
Sampled By: Mr. Brown
AGAT Quote #: ___ 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:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☑ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
MW10 S1	Aug 14/15		3	GW							X							
MW11 S1	↓		3	↓							X							
MW12 S1			3								X							
MW13 S1			3								X							

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Michael A Brown	Aug 14/15	1:29pm		Aug 14/15	1:20p
JULIA ANGERILLI QA	Aug 14/15	2:20p		2015/08/14	2:30

Page 1 of ___

N°: T008223

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

Date Issued: Jan 8, 2015

Appendix ‘E’

1. 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 MY WAY INVESTMENTS. 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.

Appendix ‘F’

1. Qualifications of Assessor

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

Ian Shaw, P. Eng.
[Director/ Senior Professional]

Mr. Shaw has over fourteen years of experience in the geotechnical and geo-environmental fields. Mr. Shaw has supervised the geotechnical investigations for the replacement/rehabilitation of bridge/culvert structures located within the Haldimand County, numerous residential and industrial subdivision projects, slope stability assignments associated with Hamilton Conservation Authority and Conservation Halton requirements, and several high rise developments in Hamilton, Burlington, Oakville, Brantford, St. Catharines, and Niagara Falls. Mr. Shaw has also been involved in numerous hydrogeological investigations, primarily within the City of Hamilton, associated with the development of residential and commercial subdivision projects. Some of Mr. Shaw's projects have included the decommissioning of underground and above ground fuel oil storage tanks, the implementation of in-situ and ex-situ remediation programmes and numerous 'dig and dump' remediation projects.

Keith Gleadall, B.A., EA Dipl.

Vice-President [Senior Professional]

Mr. Gleadall has over fourteen 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.