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

ENVIRONMENTAL SOIL SAMPLING
PROPOSED RESIDENTIAL DEVELOPMENT
1010 DOWNSVIEW DRIVE
BURLINGTON, ONTARIO

Dear Mr. Gall,

Further to the drilling activities conducted on July 13, 2015 Soil-Mat Engineers & Consultants Ltd. undertook an environmental sampling and testing program of the shallow subsurface soils at the above noted property. The purpose of this sampling and testing program was to assess the background environmental characteristics of the on-site soils for comparison to the Standards under Regulation 153/04 [as amended], and to provide our comments and recommendations with respect to the handling and off-site disposal of surplus soil fill from the site.

A representative of Soil-Mat Engineers visited the subject property on July 31, 2015 and secured representative soil samples from the first split-spoon recovered from Borehole Nos. 1, 2, and 4. The borehole locations are illustrated on Drawing No. 1, Borehole Location Plan, appended to our geotechnical report SM 156175-G dated September 15, 2015. The soil samples were recovered from each borehole at a depth of approximately 0.8 to 1.4 metres. The material was described as brown fine sand to brown fine sand fill, as noted in our geotechnical investigation. The soil samples were submitted to AGAT Laboratories Limited, ["AGAT"], [an accredited Canadian Environmental Laboratory] for laboratory analytical testing for a standard panel of metal and inorganic parameters.

The laboratory test results received in our Office were compared to the applicable standard from the Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*, as follows:

- **Table 1**: Full Depth Background Site Condition Standards.
- **Table 2**: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for a Residential/ Parkland/ Institutional property use, [RPI], as well as for an Industrial/ Commercial/ Community [ICC] property use.
- **Table 3**: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition for a Residential/ Parkland/ Institutional property use, [RPI], as well as for an Industrial/ Commercial/ Community [ICC] property use.

The results of this testing are presented in the attached AGAT Certificate of Analysis [15H004791].

Summary of Results

Based on Soil-Mat Engineers & Consultants Ltd.'s field observations and the analytical test results from AGAT, Soil-Mat Engineers & Consultants Ltd. have the following comments to offer:

1. All tested samples were found to exceed the Table 1 [All] Standards for Sodium Adsorption Ratio [SAR]. Sample 'BH4 SS1' was found to exceed the Table 1 [All] Standards for Electrical Conductivity [EC].
2. Samples 'BH1 SS1' and 'BH4 SS1' were found to exceed the Table 2 and Table 3 [RPI] Standards for SAR. Sample 'BH4 SS1' was found to exceed the Table 2 and Table 3 [RPI] Standards for Electrical Conductivity [EC]. Sample 'BH2 SS1' was found to be within the Table 2 and 3 [RPI] Standards for the tested parameters.
3. Sample 'BH4 SS1' was found to exceed the Table 2 and Table 3 [ICC] Standards for SAR. Samples 'BH1 SS1' and 'BH2 SS1' was found to be within the Table 2 and 3 [RPI] Standards for the tested parameters.
4. It is noted that the presence of elevated levels of EC and/or SAR are typically the result of the use of salt for winter de-icing operations in areas of roadways, parking lots, etc. It is essentially an aesthetic parameter that does not present a hazard to human or animal life. Rather it tends to render the soil environment un-supportive of plant growth and corrosive to buried grey or cast iron pipe.
5. The samples secured for analytical testing are believed to be representative of the soil conditions. No evidence of potential impact, i.e. staining or odours, were observed during the fieldwork. If any significant changes are noted, i.e., odours, staining etc., SOIL-MAT should be contacted to reassess the environmental characteristics of the soil.

Given the above test results the following disposal options are applicable under Regulation 153/04 [amended by Regulation 511/09 effective July 1, 2011].

- As the test results for the submitted samples exceed the Table 1 Standards for EC and SAR, the material should not be accepted at an off-site property subject to Table 1 requirements [i.e. lands subject to a Record of Site Condition of MOE Certificate of Authorisation];
- As the tested material was found to exceed the Table 2 and 3 [RPI & ICC] Standards for EC and SAR, strictly speaking, surplus material may not be disposed of at an off-site RPI or ICC property in a potable or non-potable groundwater condition;
- Given the aesthetic nature of the elevated SAR and EC parameters it may be possible to accept this material at a Table 2 or 3 [RPI or ICC] property considering the 'beneficial use' concept, however this may require additional testing, assessment of the receiving property, approval of the receiving property owner, and depending on the location and nature of the property, consultation with the local MOE District Engineer.

Furthermore, given the change in the proposed land use for the above noted site from commercial use to residential use, the site is subject to a Record of Site Condition. As such, additional delineation of on-site EC and SAR impact and potential remediation work may be required.

We trust that this brief letter report is sufficient for your present requirements. Should you require any additional information or clarification as to the contents of this document, please do not hesitate to contact the undersigned.

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

Michael R Brown

Michael Brown, B. Eng. EIT

Ian Shaw, P.Eng.
Project Engineer

LICENSED PROFESSIONAL ENGINEER
Apr 5/16
I. D. SHAW
PROVINCE OF ONTARIO

Enclosures: AGAT Certificate of Analyses [15H004791]

Distribution: MY WAY INVESTMENTS [1, plus pdf]

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
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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): 9

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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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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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:		BH1 SS1	BH2 SS1	BH4 SS1
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		7/13/2015	7/13/2015	7/13/2015
Parameter	Unit	G / S	RDL	6825405	6825410	6825411
Antimony	µg/g	1.3	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	5	6
Barium	µg/g	220	2	12	26	25
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	0.11	0.24	0.38
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	70	2	5	9	9
Cobalt	µg/g	21	0.5	3.3	5.3	6.0
Copper	µg/g	92	1	15	26	25
Lead	µg/g	120	1	4	7	7
Molybdenum	µg/g	2	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	82	1	6	13	12
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	16	18
Zinc	µg/g	290	5	17	27	26
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	0.364	0.327	**1.00**
Sodium Adsorption Ratio	NA	2.4	NA	**6.58**	**3.53**	**21.8**
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.90	7.35	7.29

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

6825405-6825411 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

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

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Guideline Violation

AGAT WORK ORDER: 15H004791

PROJECT: 156176

CLIENT NAME: SOIL MAT ENGINEERS & CONSULTANTS LT

ATTENTION TO: Ian Shaw

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
6825405	BH1 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	6.58
6825410	BH2 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	3.53
6825411	BH4 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity	0.57	1.00
6825411	BH4 SS1	ON T1 S RPI/ICC	O. Reg. 153(511) - Metals & Inorganics (Soil)	Sodium Adsorption Ratio	2.4	21.8

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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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AGAT Laboratories

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

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:

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.

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Method Summary

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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

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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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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

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