Consulting Engineers

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> Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science

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June 8, 2022 File: PE5694-LET.01

Dr. Sandra Iroakazi

335-A Dufferin Street Hawkesbury, Ontario K6A 2R8

Subject: Fill Quality Assessment Vacant Property 140 Lusk Street Ottawa, Ontario

Dear Madame,

Further to your request and authorization, Paterson Group (Paterson) carried out a Fill Quality Assessment Program at the aforementioned site. The results of which are summarized in the following report.

1.0 Background Information

The subject site is located on the north side of Lusk Street, south of O'Keefe Court, in the City of Ottawa, Ontario. The subject property is currently vacant and is predominantly grass/brush covered.

The site topography slopes slightly downward to the west on the western portion of the property and downward to the north elsewhere on the site. The regional topography is undulating.

2.0 **Previous Engineering Reports**

The following report was reviewed prior to conducting this assessment:

□ *"Phase I Environmental Site Assessment, 140 Lusk Street, Ottawa, Ontario",* prepared by Paterson Group Inc., dated April 12, 2022.

The Phase I ESA did not identify any potential environmental concerns associated with the neighbouring properties. The Phase I ESA did identify surficial fill throughout the site.

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Historically, fill material was brought into the site during the construction of Highway 416 and the realignment of Fallowfield Road and Strandherd Drive in the late 1990's. As such, Paterson recommended that the fill material identified throughout the property by assessed for its quality.

3.0 Subsurface Investigation

As part of the field program, seven (7) test pits (TP1-22 to TP7-22) were placed throughout the property on May 24, 2022 using a rubber tired backhoe under the full time supervision of Paterson personnel. The test pits extended to depths ranging from 2.81 m to 3.46 m below ground surface. The locations of the test pits are illustrated on Drawing PE5694-3 – Test Hole Location Plan, appended to this report.

Subsurface Profile

The soil profile encountered at the test pit locations generally consisted of a layer of fill material underlain by native grey silty clay and till. The fill material throughout the test pits consisted of brown silty sand with gravel, occasional cobbles and boulders. Some limited construction debris was encountered within the fill layer in TP2-22, TP4-22, TP5-22 and TP6-22. The construction debris consisted of asphalt and bricks.

A detailed description of the soil profile encountered at each test hole location is illustrated on the Soil Profile and Test Data sheets, appended to this report.

Soil Sampling Protocol

Soil sampling protocols were followed using the MECP document entitled, "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality", dated February 2021.

The samples were recovered by means of grab sampling, and immediately placed into plastic bags. If significant contamination was encountered, the samples were instead placed into glass jars. The samples were also stored in coolers to reduce analyte volatilization during transportation.

A total of thirty-three (33) soil samples were recovered from the test pits by means of grab sampling. The depths at which grab samples were obtained from the test pits are shown as "G", on the Soil Profile and Test Data sheets, appended to this report.

All samples recovered as part of this investigation will be stored in the laboratory for a period of one month after issuance of this report. All samples will then be discarded unless this firm is otherwise directed.

Soil Sample Headspace Analysis

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All soil samples collected were subjected to a preliminary screening procedure, which included visual screening for colour and evidence of metals, as well as soil vapour screening with a Photo Ionization Detector.

The recovered soil samples were placed immediately into airtight plastic bags with nominal headspace. All lumps of soil inside the bags were broken by hand, and the soil was allowed to come to room temperature prior to conducting the vapour survey, ensuring consistency of readings between samples. To measure the soil vapours, the analyser probe was inserted into the nominal headspace above the sample. The sample was then agitated and manipulated gently by hand as measurement was taken.

The peak reading registered within the first 15 seconds was recorded as the vapour measurement. The parts per million (ppm) scale was used to measure concentrations of organic vapours.

The organic vapour readings in the recovered soil samples were measured to range between 0.2 and 51.2 ppm. The results of the vapour survey indicate that there is a negligible potential for the presence of volatile substances within the soil matrix.

Refer to the Soil Profile and Test Data sheets, appended to this report, for the soil sample headspace analysis results.

Elevation Surveying

The ground surface elevations at each test pit location were surveyed using a GPS device by Paterson personnel and referenced to a geodetic datum.

Analytical Testing

Paracel Laboratories (Paracel), of Ottawa, Ontario, performed the laboratory analysis on the samples submitted for analytical testing. Paracel is a member of the Standards Council of Canada/Canadian Association for Laboratory Accreditation (SCC/CALA) and is accredited and certified by the SCC/CALA for specific tests registered with the association.

4.0 Analytical Test Results

Selected Soil and Groundwater Standards

The soil standards for the subject property were obtained from Table 3 of the document entitled, *"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act"*, prepared by the Ontario Ministry of Environment, Conservation and Parks (MECP), and dated April 15, 2011. The selected MECP standards are based on the following considerations:

- □ Full depth conditions;
- Coarse-grained soil conditions;
- □ Non-potable groundwater conditions;

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Commercial land use.

Grain size analysis was not conducted as part of this assessment. The coarse-grained soil standards were selected as a conservative approach.

The soil results were also compared to the MECP Table 1 (background) standards, as any soil removed from the property during redevelopment would need to be in compliance with these standards or be taken to an approved waste disposal site.

Soil Analysis

Six (6) soil samples were submitted for laboratory analysis of metals and polycyclic aromatic hydrocarbons (PAHs).

The results of the analytical testing are presented below in Tables 1 and 2, as well as on the laboratory certificate of analysis, appended to this report.

			Soil	MECP Table 3	MECP Table 1 Soil			
Parameter	MDL		Γ	Commercial				
Falametei	(µg/g)	TP1-22- G3	TP3-22- G2	TP4-22- G1	TP5-22- G2	TP6-22- G1	Soil Standards (µg/g)	Standards (µg/g)
Antimony	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	40	1.3
Arsenic	1.0	4.2	3.5	3.4	3.6	2.5	18	18
Barium	1.0	91.3	129	<u>253</u>	<u>277</u>	189	670	220
Beryllium	0.5	ND (0.5)	ND (0.5)	0.6	0.7	ND (0.5)	8	2.5
Boron	5.0	5.7	ND (5.0)	7.6	7.0	ND (5.0)	120	36
Cadmium	0.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.9	1.2
Chromium	5.0	14.9	14.6	35.2	43.2	31.5	160	70
Cobalt	1.0	4.9	5.0	9.8	11.2	8.2	80	21
Copper	5.0	13.3	16.0	22.9	23.5	19.7	230	92
Lead	1.0	7.1	6.2	15.5	8.2	15.0	120	120
Molybdenum	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	40	2
Nickel	5.0	9.9	9.4	22.2	24.8	17.6	270	82
Selenium	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	5.5	1.5
Silver	0.3	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	ND (0.3)	40	0.5
Thallium	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.3	1
Uranium	1.0	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	33	2.5
Vanadium	10.0	25.1	24.2	42.4	54.2	39.0	86	86
Zinc	20.0	24.2	27.1	57.4	62.5	49.3	340	290

All detected metal parameter concentrations are in compliance with the selected MECP Table 3 commercial standards for coarse-grained soils. The barium concentrations Ms. Sandra Iroakazi Page 5 File: PE5694-LET.01

identified in soil samples TP4-22-G1 and TP5-22-G2 exceed the MECP Table 1 background site condition standards. It is considered likely that these barium concentrations are naturally occurring in the silty clay fill.

			Soil Samp	MECP Table 3	MECP		
Parameter	MDL		May 24		Commercial	Table 1 Soil	
Faranieler	(µg/g)	TP1-22- G3	TP4-22- G1	TP6-22- G1	TP7-22- G4	Soil Standards (µg/g)	Standards (µg/g)
Acenaphthene	0.02	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	96	0.072
Acenaphthylene	0.02	ND (0.02)	0.04	0.02	ND (0.02)	0.15	0.093
Anthracene	0.02	ND (0.02)	0.04	0.02	ND (0.02)	0.67	0.16
Benzo[a]anthracene	0.02	ND (0.02)	0.10	0.04	0.04	0.96	0.36
Benzo[a]pyrene	0.02	ND (0.02)	0.11	0.05	0.05	0.3	0.3
Benzo[b]fluoranthene	0.02	ND (0.02)	0.12	0.05	0.05	0.96	0.47
Benzo[g,h,i]perylene	0.02	ND (0.02)	0.07	0.04	0.04	9.6	0.68
Benzo[k]fluoranthene	0.02	ND (0.02)	0.06	0.03	0.02	0.96	0.48
Chrysene	0.02	ND (0.02)	0.10	0.04	0.06	9.6	2.8
Dibenzo[a,h]anthracene	0.02	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	0.1	0.1
Fluoranthene	0.02	ND (0.02)	0.15	0.08	0.09	9.6	0.56
Fluorene	0.02	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	62	0.12
Indeno [1,2,3-cd] pyrene	0.02	ND (0.02)	0.06	0.04	0.03	0.76	0.23
1-Methylnaphthalene	0.02	ND (0.02)	ND (0.02)	0.02	ND (0.02)	76	0.59
2-Methylnaphthalene	0.02	ND (0.02)	ND (0.02)	0.03	ND (0.02)	76	0.59
Methylnaphthalene (1&2)	0.04	ND (0.04)	ND (0.04)	0.05	ND (0.04)	76	0.59
Naphthalene	0.01	ND (0.01)	ND (0.01)	0.02	ND (0.01)	9.6	0.09
Phenanthrene	0.02	ND (0.02)	0.07	0.06	0.05	12	0.69
Pyrene	0.02	ND (0.02)	0.14	0.07	0.07	96	1

All detected PAH parameter concentrations are in compliance with the selected MECP Table 3 commercial standards for coarse-grained soils, as well as the MECP Table 1 background site condition standards.

5.0 Assessment and Recommendations

Assessment

A Fill Quality Assessment Program was carried out throughout the vacant property located at 140 Lusk Street, in the City of Ottawa, Ontario. The purpose of this assessment was to assess the quality of the previously identified fill material on the subject property. Seven (7) test pits were placed throughout the subject property on May 24, 2022.

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Soil

No unusual visual or olfactory signs of contamination were observed in the soil samples obtained from the test pits, however, some construction debris consisting of asphalt and brick was encountered within the fill layer in TP2-22, TP4-22, TP5-22, and TP6-22. Six (6) soil samples were submitted to Paracel Laboratories for analysis of the following parameters: metals and PAHs.

All detected PAH concentrations identified in the soil samples analysed comply with the MECP Table 3 commercial standards, as well as the MECP Table 1 background site conditions standards.

All detected metal parameter concentrations identified in the soil samples analysed comply with the MECP Table 3 commercial standards. The barium concentrations in samples TP4-22-G1 and TP5-22-G2 exceed the MECP Table 1 standards, although it is considered possible that these are naturally occurring concentrations.

Recommendations

Soil

Based on our observations and the limited testing program carried out, the fill quality complies with the MECP standards for the subject property, however, based on the significant volume of fill on site and taking into consideration the future development of the land, it is anticipated that a substantial amount of fill will have to be removed for construction purposes. All fill will have to be removed from beneath footings. While it is typical to remove all fill from beneath building floor slabs and hard surfaced parking lots, it may be possible to leave some fill in place and/or remove and reuse some of the fill provided proper placement and compaction is implemented. The practicality of reusing the fill and/or leaving it in place will also be determined by the level of risk/degree of potential settlement of the overlying structure, and the time of year and/or weather conditions at the time of construction.

Currently, the test data indicates that the majority of the fill tested is considered clean for off-site disposal, although any fill with significant construction debris is not considered to be clean. That being said, based on the volume of fill material that ultimately has to be removed for construction purposes, it is likely that additional testing will be required in the future to qualify the fill for off-site disposal.

5.0 Statement of Limitations

The client should be aware that any information pertaining to soils and all test hole logs are furnished as a matter of general information only and test hole descriptions or logs are not to be interpreted as descriptive of conditions at locations other than those described by the test holes themselves.

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This report was prepared for the sole use of Dr. Sandra Iroakazi. Permission from Dr. Sandra Iroakazi and Paterson Group will be required prior to the release of this report to any other party.

We trust that this report satisfies your requirements.

Paterson Group Inc.

Jośhua Dempsey, B.Sc.

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Mark D'Arcy, P.Eng., QPESA

Report Distribution

- Dr. Sandra Iroakazi
- Paterson Group Inc.

Attachments

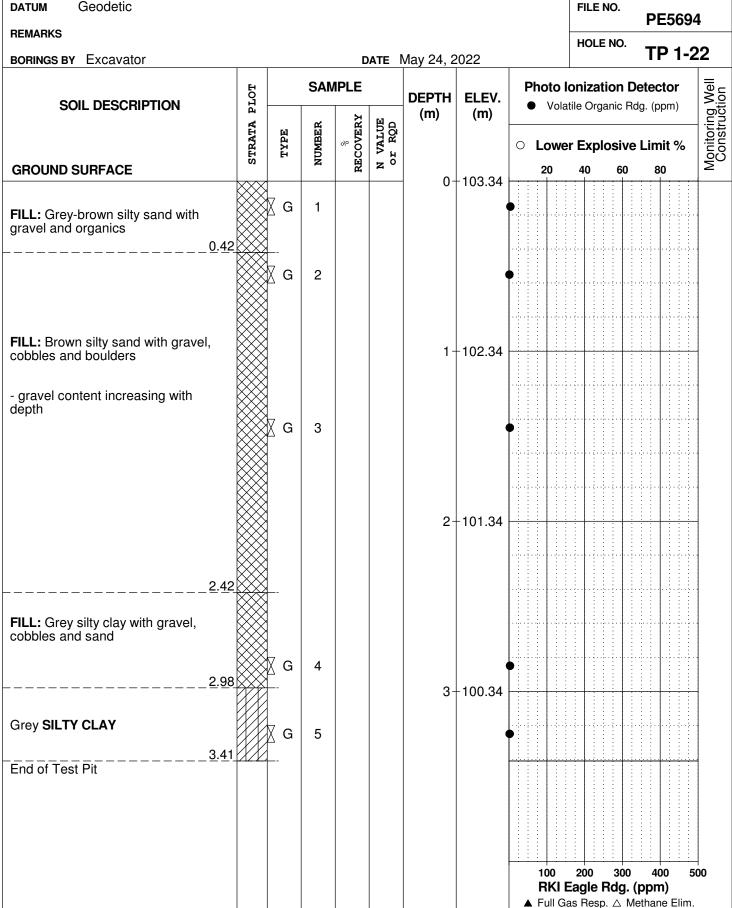
- Soil Profile and Test Data Sheets
- Laboratory Certificate of Analysis
- Drawing PE5694-3 Test Hole Location Plan

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

DATUM Geodetic



154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

DATUM Geodetic									FILE NO.	PE5694	L
REMARKS									HOLE NO.	TP 2-2	
BORINGS BY Excavator					ATE	May 24, 2	2022				
SOIL DESCRIPTION	PLOT			NPLE 건	M a	DEPTH (m)	ELEV. (m)		onization D atile Organic Ro		Monitoring Well Construction
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GROUND SURFACE			4	R	zv	0-	103.40	20	40 60	80	2
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FILL: Brown silty sand with gravel, cobbles and boulders, some brick fragments		XG	3								
2.82			5			2-	-101.40				
Brown SILTY SAND with gravel		ΧG	4								
3.04 Grey SILTY CLAY						3-	-100.40				
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End of Test Pit									200 300 Eagle Rdg. (as Resp. △ M		00

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

FILE NO.

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

DATUM Geodetic

													PE569	4
REMARKS										н		10.	TP 3-2	າງ
BORINGS BY Excavator				D	ATE	May 24, 2	2022						1 - 3-4	۲ ۲
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FILL: Brown silty sand with gravel, cobbles and boulders	3	X G	1					•						
		X G	2											
						1-	102.30							_
FILL: Grey-brown silty sand with														
gravel, cobbles and clay, trace organics														
														••
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2.1	ı					2-	-101.30							-
										· · · · · · · · · · · · · · · · · · ·				
		G	4					•						-
FLL: Dark brown silty sand with gravel, organics and silty sand														
pockets														
<u>3.0</u>	³ XXX													
Grey SILTY CLAY with sand		ΧG	5											
3.46 End of Test Pit														
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154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

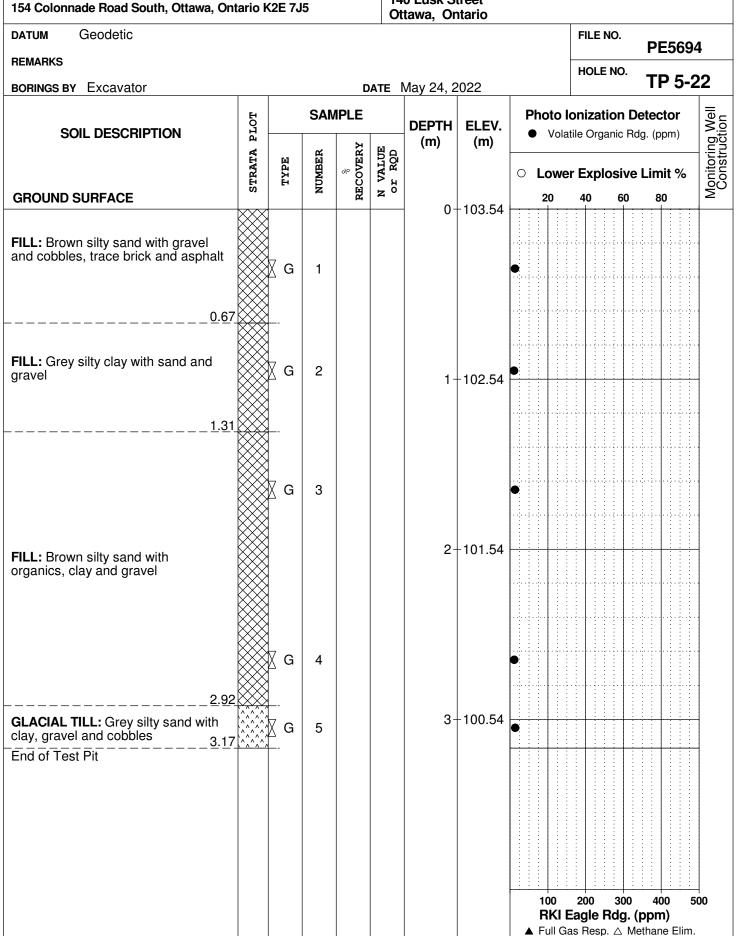
RKI Eagle Rdg. (ppm) ▲ Full Gas Resp. \triangle Methane Elim.

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

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SOIL PROFILE AND TEST DATA

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario



154 Colonnade Road South, Ottawa, Ontario K2E 7J5

SOIL PROFILE AND TEST DATA

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

Geodetic

DATUM Geodetic									FILE NO.	PE5694	4
REMARKS BORINGS BY Excavator				C		May 24, 2	2022		HOLE NO.	TP 6-2	22
	Ę		SAN					Photo	lonization D		
SOIL DESCRIPTION	PLOT			<u>ک</u> ی			ELEV. (m)	Vola	atile Organic Ro	dg. (ppm)	Monitoring Well Construction
	STRATA	ТҮРЕ	NUMBER	° ≈ © © © ©	VALUE r RQD			○ Lowe	er Explosive	Limit %	nitori onstr
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							- 103.67				-
FILL: Brown silty sand with gravel,		∑ G	1					••••••••••••••••••••••••••••••••••••••			
cobbles and boulders, trace brick and asphalt											
						1-	-102.67				
1.72		∀- ი	0								
FILL: Grey silty clay with sand and gravel 1.97		∑G	2								
						2-	-101.67				
		∑ G	3					•			
FILL: Brown silty sand with gravel, cobbles and organics											
2.98											
GLACIAL TILL: Grey silty clay with sand, gravel and cobbles		G	4			3-	-100.67	•			
3.31 End of Test Pit											
									200 300 Eagle Rdg. (as Resp. △ M	(ppm)	↓ 00

SOIL PROFILE AND TEST DATA

Fill Quality Assessment 140 Lusk Street Ottawa, Ontario

154 Colonnade Road South, Ottawa, Ontario K2E 7J5

								FILE NO	D. PE5694	4
								HOLE	^{ю.} ТР 7- 2	22
				DATE	Vlay 24, 2	2022				
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14/ ▲ Full Gas Resp. \triangle Methane Elim.



RELIABLE.

300 - 2319 St. Laurent Blvd Ottawa, ON, K1G 4J8 1-800-749-1947 www.paracellabs.com

Certificate of Analysis

Paterson Group Consulting Engineers

154 Colonnade Road South Nepean, ON K2E 7J5 Attn: Mark D'Arcy

Client PO: Project: PE5694 Custody: 136579

Report Date: 6-Jun-2022 Order Date: 25-May-2022

Order #: 2222173

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2222173-01	TP1-22-G3
2222173-02	TP3-22-G2
2222173-03	TP4-22-G1
2222173-04	TP5-22-G2
2222173-05	TP6-22-G1
2222173-06	TP7-22-G4

Approved By:

Mark Foto

Mark Foto, M.Sc. Lab Supervisor

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



Order #: 2222173 Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	30-May-22	30-May-22
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	25-May-22	1-Jun-22
Solids, %	Gravimetric, calculation	31-May-22	31-May-22

PARACEL LABORATORIES LTD.

Certificate of Analysis

Client: Paterson Group Consulting Engineers

Client PO:

Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

	Client ID: Sample Date: Sample ID:	TP1-22-G3 24-May-22 09:00 2222173-01 Soil	TP3-22-G2 24-May-22 09:00 2222173-02 Soil	TP4-22-G1 24-May-22 09:00 2222173-03 Soil	TP5-22-G2 24-May-22 09:00 2222173-04 Soil
Physical Characteristics	MDL/Units	301	301	301	301
% Solids	0.1 % by Wt.	85.4	81.6	88.6	84.3
Metals		00.4	01.0	00.0	04.0
Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	4.2	3.5	3.4	3.6
Barium	1.0 ug/g dry	91.3	129	253	277
Beryllium	0.5 ug/g dry	<0.5	<0.5	0.6	0.7
Boron	5.0 ug/g dry	5.7	<5.0	7.6	7.0
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	14.9	14.6	35.2	43.2
Cobalt	1.0 ug/g dry	4.9	5.0	9.8	11.2
Copper	5.0 ug/g dry	13.3	16.0	22.9	23.5
Lead	1.0 ug/g dry	7.1	6.2	15.5	8.2
Molybdenum	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Nickel	5.0 ug/g dry	9.9	9.4	22.2	24.8
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	25.1	24.2	42.4	54.2
Zinc	20.0 ug/g dry	24.2	27.1	57.4	62.5
Semi-Volatiles	•				
Acenaphthene	0.02 ug/g dry	<0.02	-	<0.02	-
Acenaphthylene	0.02 ug/g dry	<0.02	-	0.04	-
Anthracene	0.02 ug/g dry	<0.02	-	0.04	-
Benzo [a] anthracene	0.02 ug/g dry	<0.02	-	0.10	-
Benzo [a] pyrene	0.02 ug/g dry	<0.02	-	0.11	-
Benzo [b] fluoranthene	0.02 ug/g dry	<0.02	-	0.12	-
Benzo [g,h,i] perylene	0.02 ug/g dry	<0.02	-	0.07	-
Benzo [k] fluoranthene	0.02 ug/g dry	<0.02	-	0.06	-
Chrysene	0.02 ug/g dry	<0.02	-	0.10	-
Dibenzo [a,h] anthracene	0.02 ug/g dry	<0.02	-	<0.02	-
Fluoranthene	0.02 ug/g dry	<0.02	-	0.15	-
Fluorene	0.02 ug/g dry	<0.02	-	<0.02	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	<0.02	-	0.06	-
1-Methylnaphthalene	0.02 ug/g dry	<0.02	-	<0.02	-

OTTAWA . MISSISSAUGA . HAMILTON . KINGSTON . LONDON . NIAGARA . WINDSOR . RICHMOND HILL



Report Date: 06-Jun-2022 Order Date: 25-May-2022

Project Description: PE5694

	Client ID:	TP1-22-G3	TP3-22-G2	TP4-22-G1	TP5-22-G2
	Sample Date:	24-May-22 09:00	24-May-22 09:00	24-May-22 09:00	24-May-22 09:00
	Sample ID:	2222173-01	2222173-02	2222173-03	2222173-04
	MDL/Units	Soil	Soil	Soil	Soil
2-Methylnaphthalene	0.02 ug/g dry	<0.02	-	<0.02	-
Methylnaphthalene (1&2)	0.04 ug/g dry	<0.04	-	<0.04	-
Naphthalene	0.01 ug/g dry	<0.01	-	<0.01	-
Phenanthrene	0.02 ug/g dry	<0.02	-	0.07	-
Pyrene	0.02 ug/g dry	<0.02	-	0.14	-
2-Fluorobiphenyl	Surrogate	105%	-	102%	-
Terphenyl-d14	Surrogate	110%	-	104%	-

PARACEL LABORATORIES LTD.

Certificate of Analysis

Client: Paterson Group Consulting Engineers

Client PO:

Order #: 2222173

Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

	Client ID: Sample Date:	TP6-22-G1 24-May-22 09:00 2222173-05	TP7-22-G4 24-May-22 09:00 2222173-06	-	
	Sample ID: MDL/Units	Soil	Soil	-	-
Physical Characteristics	MDE/Onits				<u> </u>
% Solids	0.1 % by Wt.	90.1	86.0	-	-
Metals					
Antimony	1.0 ug/g dry	<1.0	-	-	-
Arsenic	1.0 ug/g dry	2.5	-	-	-
Barium	1.0 ug/g dry	189	-	-	-
Beryllium	0.5 ug/g dry	<0.5	-	-	-
Boron	5.0 ug/g dry	<5.0	-	-	-
Cadmium	0.5 ug/g dry	<0.5	-	-	-
Chromium	5.0 ug/g dry	31.5	-	-	-
Cobalt	1.0 ug/g dry	8.2	-	-	-
Copper	5.0 ug/g dry	19.7	-	-	-
Lead	1.0 ug/g dry	15.0	-	-	-
Molybdenum	1.0 ug/g dry	<1.0	-	-	-
Nickel	5.0 ug/g dry	17.6	-	-	-
Selenium	1.0 ug/g dry	<1.0	-	-	-
Silver	0.3 ug/g dry	<0.3	-	-	-
Thallium	1.0 ug/g dry	<1.0	-	-	-
Uranium	1.0 ug/g dry	<1.0	-	-	-
Vanadium	10.0 ug/g dry	39.0	-	-	-
Zinc	20.0 ug/g dry	49.3	-	-	-
Semi-Volatiles					
Acenaphthene	0.02 ug/g dry	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g dry	0.02	<0.02	-	-
Anthracene	0.02 ug/g dry	0.02	<0.02	-	-
Benzo [a] anthracene	0.02 ug/g dry	0.04	0.04	-	-
Benzo [a] pyrene	0.02 ug/g dry	0.05	0.05	-	-
Benzo [b] fluoranthene	0.02 ug/g dry	0.05	0.05	-	-
Benzo [g,h,i] perylene	0.02 ug/g dry	0.04	0.04	-	-
Benzo [k] fluoranthene	0.02 ug/g dry	0.03	0.02	-	-
Chrysene	0.02 ug/g dry	0.04	0.06	-	-
Dibenzo [a,h] anthracene	0.02 ug/g dry	<0.02	<0.02	-	-
Fluoranthene	0.02 ug/g dry	0.08	0.09	-	-
Fluorene	0.02 ug/g dry	<0.02	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	0.04	0.03	-	-
1-Methylnaphthalene	0.02 ug/g dry	0.02	<0.02	-	-

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Order #: 2222173

Report Date: 06-Jun-2022 Order Date: 25-May-2022

order Date: 20-May-2022

Project Description: PE5694

	Client ID: Sample Date: Sample ID: MDL/Units	TP6-22-G1 24-May-22 09:00 2222173-05 Soil	TP7-22-G4 24-May-22 09:00 2222173-06 Soil	- - - -	- - - -
2-Methylnaphthalene	0.02 ug/g dry	0.03	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g dry	0.05	<0.04	-	-
Naphthalene	0.01 ug/g dry	0.02	<0.01	-	-
Phenanthrene	0.02 ug/g dry	0.06	0.05	-	-
Pyrene	0.02 ug/g dry	0.07	0.07	-	-
2-Fluorobiphenyl	Surrogate	82.1%	80.0%	-	-
Terphenyl-d14	Surrogate	86.8%	91.4%	-	-



Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	ND	1.0	ug/g						
Arsenic	ND	1.0	ug/g						
Barium	ND	1.0	ug/g						
Beryllium	ND	0.5	ug/g						
Boron	ND	5.0	ug/g						
Cadmium	ND	0.5	ug/g						
Chromium	ND	5.0	ug/g						
Cobalt	ND	1.0	ug/g						
Copper	ND	5.0	ug/g						
Lead	ND	1.0	ug/g						
Molybdenum	ND	1.0	ug/g						
Nickel	ND	5.0	ug/g						
Selenium	ND	1.0	ug/g						
Silver	ND	0.3	ug/g						
Thallium	ND	1.0	ug/g						
Uranium	ND	1.0	ug/g						
Vanadium	ND	10.0	ug/g						
Zinc	ND	20.0	ug/g						
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g						
Acenaphthylene	ND	0.02	ug/g						
Anthracene	ND	0.02	ug/g						
Benzo [a] anthracene	ND	0.02	ug/g						
Benzo [a] pyrene	ND	0.02	ug/g						
Benzo [b] fluoranthene	ND	0.02	ug/g						
Benzo [g,h,i] perylene	ND	0.02	ug/g						
Benzo [k] fluoranthene	ND	0.02	ug/g						
Chrysene	ND	0.02	ug/g						
Dibenzo [a,h] anthracene	ND	0.02	ug/g						
Fluoranthene	ND	0.02	ug/g						
Fluorene	ND	0.02	ug/g						
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g						
1-Methylnaphthalene	ND	0.02	ug/g						
2-Methylnaphthalene	ND	0.02	ug/g						
Methylnaphthalene (1&2)	ND	0.04	ug/g						
Naphthalene	ND	0.01	ug/g						
Phenanthrene	ND	0.02	ug/g						
Pyrene	ND	0.02	ug/g						
Surrogate: 2-Fluorobiphenyl	1.46		ug/g		110	50-140			
Surrogate: Terphenyl-d14	1.73		ug/g		130	50-140			
. , ,									



Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

Method Quality Control: Duplicate

		Reporting		Source		%REC		RPD	
Analyte	Result	Limit	Units	Result	%REC	Limit	RPD	Limit	Notes
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	4.0	1.0	ug/g	3.8			5.9	30	
Barium	391	1.0	ug/g	386			1.3	30	
Beryllium	1.6	0.5	ug/g	1.5			4.8	30	
Boron	6.6	5.0	ug/g	8.1			20.1	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	66.8	5.0	ug/g	65.8			1.5	30	
Cobalt	17.5	1.0	ug/g	16.1			8.8	30	
Copper	24.9	5.0	ug/g	24.2			2.9	30	
Lead	9.7	1.0	ug/g	9.1			7.1	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	36.6	5.0	ug/g	35.6			2.8	30	
Selenium	1.1	1.0	ug/g	1.2			3.0	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	80.4	10.0	ug/g	81.3			1.1	30	
Zinc	111	20.0	ug/g	109			1.7	30	
Physical Characteristics			5.9						
% Solids	73.3	0.1	% by Wt.	74.0			0.9	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	1.96		ug/g		119	50-140	-'	-	
Surrogate: Terphenyl-d14	1.65		ug/g		99.9	50-140			

OTTAWA - MISSISSAUGA - HAMILTON - KINGSTON - LONDON - NIAGARA - WINDSOR - RICHMOND HILL



Order #: 2222173

Report Date: 06-Jun-2022

Order Date: 25-May-2022

Project Description: PE5694

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	59.5	1.0	ug/g	ND	119	70-130			
Arsenic	58.2	1.0	ug/g	1.5	113	70-130			
Barium	209	1.0	ug/g	154	109	70-130			
Beryllium	56.5	0.5	ug/g	0.6	112	70-130			
Boron	57.3	5.0	ug/g	ND	108	70-130			
Cadmium	60.6	0.5	ug/g	ND	121	70-130			
Chromium	85.7	5.0	ug/g	26.3	119	70-130			
Cobalt	62.8	1.0	ug/g	6.4	113	70-130			
Copper	62.4	5.0	ug/g	9.7	105	70-130			
Lead	43.0	1.0	ug/g	3.6	78.8	70-130			
Molybdenum	55.6	1.0	ug/g	ND	111	70-130			
Nickel	68.3	5.0	ug/g	14.2	108	70-130			
Selenium	50.5	1.0	ug/g	ND	100	70-130			
Silver	55.5	0.3	ug/g	ND	111	70-130			
Thallium	59.8	1.0	ug/g	ND	119	70-130			
Uranium	38.2	1.0	ug/g	ND	76.3	70-130			
Vanadium	91.1	10.0	ug/g	32.5	117	70-130			
Zinc	93.1	20.0	ug/g	43.7	98.8	70-130			
Semi-Volatiles									
Acenaphthene	0.166	0.02	ug/g	ND	80.1	50-140			
Acenaphthylene	0.138	0.02	ug/g	ND	66.6	50-140			
Anthracene	0.153	0.02	ug/g	ND	73.9	50-140			
Benzo [a] anthracene	0.132	0.02	ug/g	ND	63.8	50-140			
Benzo [a] pyrene	0.138	0.02	ug/g	ND	66.9	50-140			
Benzo [b] fluoranthene	0.140	0.02	ug/g	ND	67.5	50-140			
Benzo [g,h,i] perylene	0.138	0.02	ug/g	ND	66.5	50-140			
Benzo [k] fluoranthene	0.131	0.02	ug/g	ND	63.2	50-140			
Chrysene	0.166	0.02	ug/g	ND	80.0	50-140			
Dibenzo [a,h] anthracene	0.141	0.02	ug/g	ND	68.0	50-140			
Fluoranthene	0.137	0.02	ug/g	ND	66.2	50-140			
Fluorene	0.162	0.02	ug/g	ND	78.3	50-140			
Indeno [1,2,3-cd] pyrene	0.139	0.02	ug/g	ND	67.0	50-140			
1-Methylnaphthalene	0.199	0.02	ug/g	ND	96.0	50-140			
2-Methylnaphthalene	0.259	0.02	ug/g	ND	125	50-140			
Naphthalene	0.192	0.01	ug/g	ND	92.8	50-140			
Phenanthrene	0.154	0.02	ug/g	ND	74.4	50-140			
Pyrene	0.138	0.02	ug/g ug/g	ND	66.8	50-140			
Surrogate: 2-Fluorobiphenyl	1.94	0.02	ug/g ug/g		117	50-140			
Surrogate: Terphenyl-d14	1.67		ug/g		101	50-140			

OTTAWA - MISSISSAUGA - HAMILTON - KINGSTON - LONDON - NIAGARA - WINDSOR - RICHMOND HILL



None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

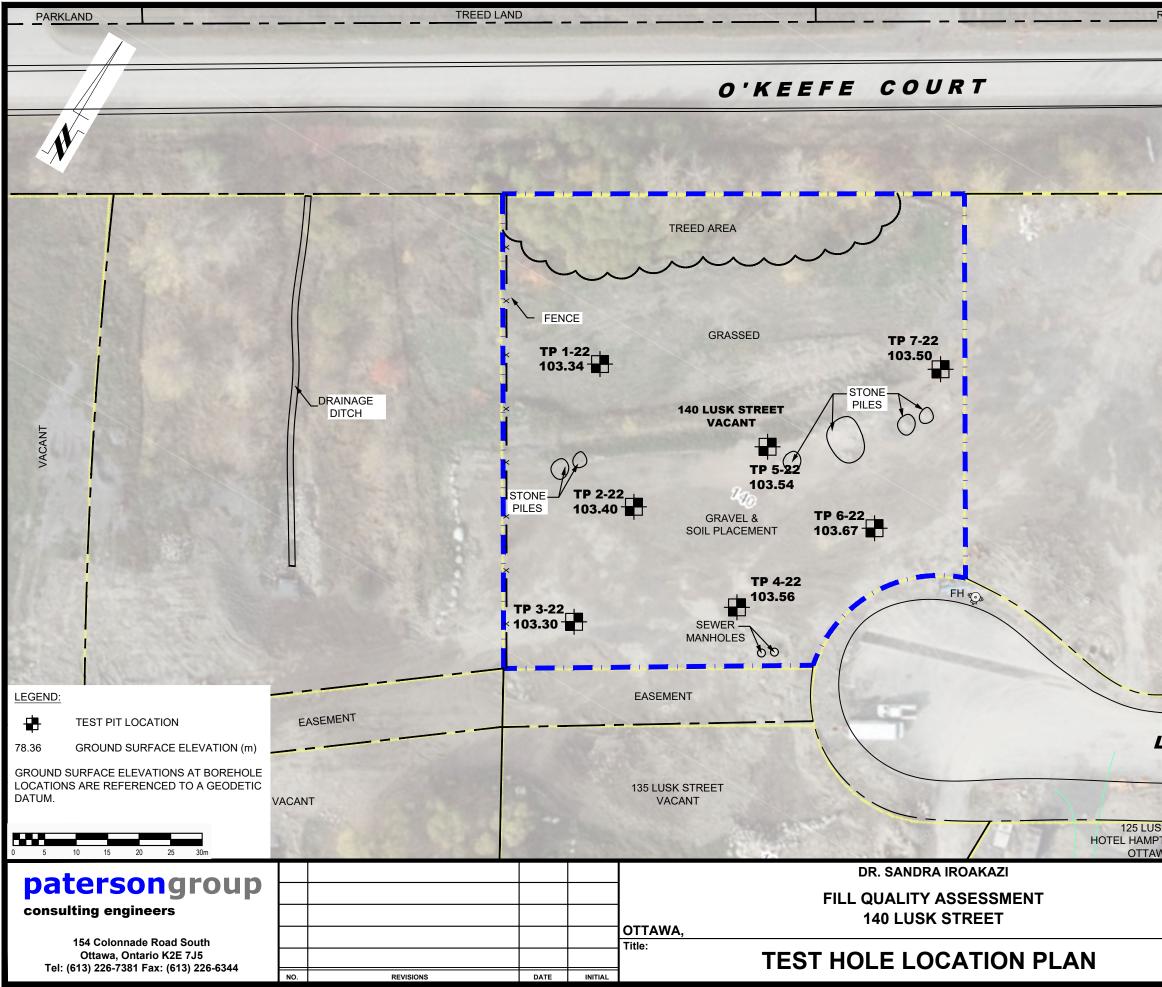
Other Report Notes:

n/a: not applicable ND: Not Detected MDL: Method Detection Limit Source Result: Data used as source for matrix and duplicate samples %REC: Percent recovery. RPD: Relative percent difference. NC: Not Calculated

Soil results are reported on a dry weight basis when the units are denoted with 'dry'. Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons. Order #: 2222173

Report Date: 06-Jun-2022 Order Date: 25-May-2022 Project Description: PE5694

Catche Ware Parcy Dote # Marce Parcy Dote # Marce Por Isy ColonnolC RJ Email: Telephone File Variation Other Regulation Warks Prevalue Willarcy @ Patterson group.ch Date Required: Willarcy @ Patterson group.ch Date Required: Willarcy @ Patterson group.ch Date Required: Warks Marin: Type: S(Sol/Sed.) GW (Ground Water) Required Analysis Warks Date Required: Warks Table 3 Individue Other Regulation Marin: Burget Sample Taken Table 3 Apr/Other Sul-Starn Table 3 No Other Sample ID/Location Name Sul-Starn To Ff-122 - C-3 S I To Ff-22 - C-2 I I To Ff-22 - C-4 I I To Ff-22 - C-4 I I S To Ff	Paracel ID: 2222173					om		(Lab U	lse On		i tos			(Lab	Of Cu Use C 136	Only)				
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2 TP3-22-62 X X X 3 TP4-22-61 X X X 4 TP5-22-62 X X X 5 TP6-12-61 X X X 6 TP7-22-64 X X X 7 X X X X 8 X X X X 9 X X X X 10 X X X X		n Name			ŝ				ă.	×			Ĭ	Ö	8			1		
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