LOPERS & ASSOCIATES

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LOP20-003B-BRIGIL

September 18, 2020

Mr. Philip Thibert Project Manager – Land Development & Infrastructure Brigil Construction 98 Rue Lois, Gatineau, J8Y 3R7

Environmental Fill Quality Assessment Proposed Residential Development 100 Steacie Drive, Ottawa, ON

Dear Mr. Thibert,

This letter outlines our background information, field program, analytical results and findings for an Environmental Fill Quality Assessment (EFQA) at the property Civically addressed as 100 Steacie Drive, Ottawa, ON ("Property" or "Site").

BACKGROUND

Lopers & Associates (Lopers) was retained by 3223701 Canada Inc. (BRIGIL) to complete an Environmental Fill Quality Assessment (EFQA) of the undeveloped property with Civic address No. 100 Steacie Drive, Ottawa, Ontario ("Property" or "Site"). The location of the EFQA Property is depicted on Figure 1: Key Plan.

Lopers understands that the Site is currently owned by 3223701 Canada Inc., a subsidiary company of Brigil Construction (BRIGIL), is undeveloped, zoned for industrial use and has been proposed for residential development. Based on preliminary environmental research completed as part of a concurrent Phase One Environmental Site Assessment (Phase One ESA), previous investigations and reports by others, the Site was formerly partially graded with fill material of unknown environmental quality on the south and east portions of the Property. The importation of fill material of unknown environmental quality at the Property is a Potentially Contaminating Activity (PCA) which could be interpreted as an Area of Potential Environmental Concern (APEC) for the Property. Since a potential APEC has been identified for the Property as part of the Phase One ESA research, an investigation into the environmental quality of the fill material was completed to determine its suitability for on-Site use or potential re-use off-Site.

This EFQA was designed to meet the general sampling and analytical requirements of O.Reg. 153/04 as amended, with details of scope presented in Lopers' Letter entitled "Proposal for Limited Phase Two Environmental Site Assessment, Proposed Residential Development, 100 Steacie Drive, Ottawa, ON", dated August 20, 2020, reference, No. LOP-003B-20-BRIGIL.

FIELD INVESTIGATION

The scope of work for investigation was discussed with Brigil and sampling and analysis plan (SAP) was prepared to achieve the objectives of the EFQA. In the event that an RSC is required for the Property, additional effort, including groundwater sampling, laboratory analysis and reporting may be required.

Underground utility locates were completed through Ontario 1-Call to identify any active public services on the Property. On September 2, 2020, a total of eight test pits (TP1-20 through TP8-20) were dug at the Property. The test pits were dug using an 8-ton rubber track mounted excavator operated by C.A.C.E. Construction 1991 Ltd. (CACE). Soil samples were collected directly from the excavator bucket. The eight test pits were dug to approximate depths of 0.1 to 1.5 meters below ground surface (m BGS); the depth of investigation of fill is based on observations from historical investigations/reports completed at the Site as well as the presence of shallow bedrock in various locations at the Property. Continuous soil sampling was completed in the test pits with field screening for environmental quality. Representative and 'worst case' samples were selected and containerized for laboratory analysis. The locations of the test pits completed as part of this EFQA at the Property are presented on Figure 2: Site Plan.

Soil samples were initially collected in Ziploc bags for initial screening as part of sample selection. Soil samples selected for laboratory analysis were collected in dedicated clear glass jars prepared and provided by the analytical laboratory. Soil samples collected for BTEXs/VOCs and the F1 range of PHCs analysis were collected using a dedicated graduated syringe provided by the laboratory and placed directly into a glass vial with a known quantity of methanol preservative. Analytes and associated preservatives were specified on each jar/vial by the laboratory. Each jar/vial sample set was provided with a unique sample identifier, project number and date of sampling in the field.

Initial field screening of the soil samples consisted of visual and olfactory observations made at the time of sample collection during the drilling program. Additional field screening of the soil samples was completed using an RKI Instruments Model Eagle-2 combustible gas detector ("RKI Eagle"). The RKI Eagle used for soil sample screening as part of this EFQA was obtained from Maxim Environmental and Safety Inc. and was calibrated by Maxim on August 31, 2020. The RKI Eagle is capable of measuring combustible vapours at concentrations ranging from 0 parts per million (PPM) to 50% of the lower explosive limit (LEL). The RKI Eagle is also capable of measuring VOC vapours at concentrations ranging from 0 ppm to 1000 ppm.

APPLICABLE SITE CONDITION STANDARD

Through Ontario Regulation 153/04 (O.Reg. 153/04) the Ministry of Environment, Conservation and Parks (MECP) prescribes the conditions to determine the applicable site condition standard for a property.

The Site is currently zoned industrial, but has been proposed future use of the Property is for residential use; as such, the residential land use standards have been applied for the purposes of this report as they represent the more environmentally sensitive land use conditions.

The Property and all other properties within 250 m of the property boundaries are supplied by the municipal drinking water system. The Site will not be used for agricultural use and there are no wells within 250 m of the property boundaries that are intended for use as a source of water for human consumption or agriculture. As such, the designation of non-potable groundwater setting is determined to be applicable [O.Reg. 153/04, section 35].

The soil quality over the full depth of overburden was considered for this EFQA. The full depth generic site condition standards were selected for comparison for the Property [O.Reg. 153/04, sections 36, 37, 38, 39 and 40].

The Property is not situated within or adjacent to an area of natural significance and does not include any land within 30 m of an area of natural significance. The pH of the soil was analyzed as part of this EFQA and was found to range from

6.22 to 7.52. As such, the Property is not considered to be an environmentally sensitive area [O.Reg. 153/04, section 41].

A layer of native glacial till, consisting of silty sand and gravel, cobbles and boulders, which would be classified as coarse grained soil, is present near ground surface and/or underlaying a silty clay unit to full depth to bedrock. It is interpreted that greater than 1/3 of the Property has coarse grained soil. For the purposes of this EFQA, the soil conditions are considered to be coarse grained, which provides a more conservative comparison to the MECP site condition standards than the fine-grained values [O.Reg. 153/04, section 42].

Review of the historical drilling programs and test pits completed as part of this EFQA were completed. It was determined that less than 2/3 of the Property has greater than 2 m of overburden soil. The Property is considered a shallow soil property [O.Reg. 153/04, section 43.1].

The Property includes a water body, a creek, which is a tributary of Shirley's Brook is present on the west side of the Site. The MECP site condition standards for use within 30 m of a water body have been applied [O.Reg. 153/04, section 43.1].

The full depth generic site condition standards, with non-potable groundwater, course textured soil, for residential/parkland/institutional property use, as specified in Table 9 of the MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011 were determined to be the applicable site condition standards for the Property as part of this EFQA.

INVESTIGATION FINDINGS

Stratigraphy

Based on the observations of soil samples collected during the EFQA field program, there were five stratigraphic units identified at the Property, which include:

Topsoil

A layer of topsoil, approximately 0.10 to 0.45 m in thickness, was encountered at the ground surface in all of the test pit locations (TP1 through TP8).

Silty Sand, Gravel and Cobbles (Fill)

A layer of silty sand, gravel and cobble fill material, ranging from approximately 0.1 to 0.2 m in thickness, was encountered immediately below the topsoil layer, or stratified with the topsoil in TP2 and TP3. This material was generally dry and loose. No odours, staining or evidence of deleterious fill were observed in this layer. No asphalt was observed in the fill samples.

Silty Clay

A layer of silty clay, ranging from at least 0.5 to 1.1 m in thickness, was encountered immediately below the topsoil layer in TP1, TP3 and TP6. This material was identified to consist of silty clay, which generally moist, firm and was grey. No odours, staining or evidence of deleterious fill were observed in this layer.

Silty Sand and Gravel (Till)

A layer of silty sand, gravel and cobbles, at least 0.5 to 1.1 m in thickness, was encountered below the topsoil layer in TP4, TP7 and TP8. This material consisted of brown to grey silty sand, gravel and cobbles with some occasional clay and was compact and moist to damp; groundwater, possibly perched, was encountered at a depth of approximately 1.1 m in PT 8. No odours, staining or evidence of deleterious fill were observed in this layer.

Mineral deposits, suspected to consist of muscovite and biotite were observed within the till deposit; it should be noted that this mineral visually resembles the physical properties of weathered asphalt.

Granite Bedrock

Granite bedrock was encountered below the fill and natural soils at the Property in test pits TP2 and TP5 at depths of 0.3 m BGS and 0.1 m BGS, respectively.

Field Screening Observations

Initial field screening of the soil samples consisted of visual and olfactory observations made at the time of sample collection during the test pitting program. There were no olfactory observations of PHC contamination encountered in any of the samples recovered as part of this EFQA. No indications of staining, odours, deleterious fill, refuse or any other observable environmental contamination were observed in any of the soil samples collected from the test pits.

Additional field screening of the soil samples was completed using an RKI Eagle gas detector. Combustible soil vapour screening concentrations were all measured at 0 ppm, which generally are not considered indicative of significant PHC contamination.

Laboratory Analysis

As previously noted, APECs and CPCs for Laboratory Analysis were estimated and based on preliminary background and assessment of the Site, as part of the Phase One ESA. For the purposes of this EFQA, Laboratory Analysis consisted of the following analysis:

- Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEXs) 4 soil samples;
- Polycyclic Aromatic Hydrocarbons (PAHs) 6 soil samples;
- Metals 6 soil samples.

It should be noted that the aforementioned sample quantities included 1 duplicate sample for each parameter set.

Soil analytical testing was conducted by Paracel Laboratories Ltd. (Paracel). Paracel is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) and the National Institute of Standards and Technology (NIST), Standard Services Division, National Voluntary Laboratory Accreditation Program (NVLAP) for specific environmental and IAQ tests listed in the Scopes of Accreditation registered with each association. For the scope of accreditation under CALA Membership Number 1262, Paracel is accredited for analysis including, but not limited to, metals, organics, conventionals, bacteria, mold, and asbestos in various matrices.

Comparison of Soil Analytical Results to Applicable Site Conditions Standards

The analytical soil results were compared to the full depth generic site condition standards, with non-potable groundwater, course textured soil, for residential property use, as specified in Table 9 of the MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011. The aforementioned soil samples selected for laboratory analysis were submitted to Paracel under chain of custody No. 128622 on September 2, 2020. The laboratory certificate of analysis (Paracel Report # 2036345) is attached following the Figures and Tables of this letter.

All of the analyzed soil samples were in compliance with the site condition standards. A full summary of the soil analytical results and comparison to the applicable site condition standards are presented in Table 1: Soil Analytical Results following the text of this report. It should be noted that all organics parameters analyzed as part of the EFQA were reported below the laboratory method detection limits.

Quality Assurance & Quality Control

The soil sample (TP11) was submitted to the laboratory as a blind field duplicate sample of TP1. The ratio of soil duplicate results to original sample results was generally 0 to 7%, which meets the required ratio. These samples were analyzed for PHCs, BTEXs, PAHs and metals, which provide a blind quality assurance and quality control QA/QC validation for all soil parameters analyzed as part of this EFQA. It should be noted that the organics parameters were all reported below the laboratory method detection limits.

CONCLUSION

All of the soil results for Property are in compliance with the applicable site condition standards as of the certification date of September 2, 2020.

Based on the results of the EFQA, the environmental fill quality at the Site is not considered an Area of Potential Environmental Concern (APEC) for the Property, as it relates to the Phase One ESA. No further investigation is warranted at this time.

ADDITIONAL DEVELOPMENT CONSIDERATIONS

It should be noted that, based on field observations and a review of previous subsurface investigations, a high degree of heterogeneity is expected in any imported backfill which has been historically placed at the Property as part of previous grading work. It is recommended that an environmental consultant periodically review the excavation work during redevelopment to ensure that excess soil generated as part of the redevelopment is managed appropriately. Best management practices would also include preparation of a soil management plan in accordance with O.Reg. 406/19.

CLOSURE

This Environmental Fill Quality Assessment (EFQA) was completed concurrently with a Phase One ESA and addresses any potentially contaminating activities including the historic importation of fill material of unknown quality, identified at the during the Phase One ESA. Any future activities, development or occupancy of the Site has the potential to result in new PCAs, which may require further assessment at a later date.

Regards,

Luke Lopers, P.Eng. Principal







Table 1: Soil Analytical Results

100 Steacie Drive, Ottawa, Ontario

				TP1	TP11	TP2	TP3	TP4	TP8
			Sample Location:		Duplicate of TP1	0.1 0.2 m PCS			
			Sample Depth:	0.5-1.0 m BGS	0.5-1.0 m BGS	0.1 - 0.3 m BGS	0.0 - 0.2 m BGS	0.2 - 1.0 m BGS	0.5 - 1.1 m BGS
			Sample Date:	September 2, 2020					
			Laborartory Sample ID:	2036345-01	2036345-06	2036345-02	2036345-03	2036345-04	2036345-05
			MECD Table Q. Residential						
		Mathad Datastian Limit	Broporty Uso Standard						
Paramotor	Unite		Coarse Grain Soil						
Paraluam Hydrosarbons (DHCs)	Units	(MDL)	Coarse Grain Son						
	ug/g	7	25	ND	ND	ND		ND	
$F_2 PHC_2 (C10-C16)$	ug/g	1	10	ND					
F_2 PHCs (C16-C34)	ug/g	4	240						
	ug/g	6	120		ND		-		_
F4 Fires (C34-C30)	ug/g	50	120	ND		ND		ND	
Velatile Organic Compounds (VOCs)	ug/g	50	120	-	-	-	-	-	
Renzene	ug/g	0.03	0.03	ND	ND	ND	_	ND	_
Ethylhenzene	ug/g	0.02	0.02				-		_
	ug/g	0.05	0.05		ND		-		_
m/n-Xvlene	ч <u>к</u> /к	0.05	0.2				-		-
o-Xvlene	чб/б ца/а	0.05	NIV/				_		_
Xvlenes total	ч <u>к</u> /к	0.05					-		-
Polycyclic Aromatic Hydrocarbons	чб/ б	0.05	0.05	טא	טא	שא	-	שא	-
Acenandthene	11g/g	0.02	0 072	ND	ND	ND	ND	ND	ND
Acenanhthylene	ч <u>б/</u> б 110/а	0.02	0.072						
Anthracene	ug/g	0.02	0.033	ND					
Renzo[a]anthracene	ug/g	0.02	0.22						
Benzo[a]pyrene	ug/g	0.02	0.30						
Benzo[b]fluoranthene	ug/g	0.02	0.47	ND					ND
	ug/g	0.02	0.68						
Benzo[k]fluoranthene	ug/g	0.02	0.08						ND
	ug/g	0.02	2 8						
Dibenzo[a h]anthracene	ug/g	0.02	0.1					ND	ND
Fluoranthene	ω <u>6</u> /6 μα/α	0.02	0.69	ND	ND	ND	ND	ND	ND
Fluorene	μα/α	0.02	0.19	ND	ND	ND	ND	ND	ND
Indeno[1 2 3-cd]nyrene	ω <u>6</u> /6 μα/α	0.02	0.23	ND	ND	ND	ND	ND	ND
1-Methylnanhthalene	μα/α	0.02	0.59		ND	ND	ND	ND	ND
2-Methylnaphthalene	ω <u>6</u> /6 μα/α	0.02	0.59	ND	ND	ND	ND	ND	ND
Methylnaphthalene (182)	μα/α	0.02	0.59	ND	ND	ND	ND	ND	ND
Nanhthalene	μα/α	0.04	0.09	ND	ND	ND	ND	ND	ND
Phenanthrane	ν6/6 μα/α	0.02	0.69	ND	ND	ND	ND	ND	ND
Pyrene	ως/ς μσ/σ	0.02	1	ND	ND	ND	ND	ND	ND
Motals	46/6	0.02	Ĩ		ND	ND	ND		ND
Antimony	11g/g	1.0	13	ND	ND	ND	ND	ND	ND
Arsenic	∝8/8 Πα\ά	1.0	18	3.1	3.1	23	27	3	2.5
Barium	יפי מ∖פי	1.0	220	194	203	150	100	158	183
Beryllium	ως/ς μσ/σ	0.5	2 5	0.7	0.7	ND	0.7	0.7	0.6
Boron	יפי מ∖פי	5.0	36	0.7 ND		ND	0.7 ND	0.7 ND	5.7
Cadmium	∝8/8 Πα\ά	0.5	12	ND	ND	ND	ND	ND	ND
Chromium	∝8/8 Πα\ά	5.0	70	55.4	56 1	34.1	29.2	39.2	37.5
Cobalt	∞6/6 uσ/σ	1.0	22	13.2	13 5	10.8	85	10.7	12.3
Conner	ω <u>σ</u> /σ	5.0	92	22.6	23.5	23 5	15.3	18.7	18.5
Lead	∝6/δ ιισ/σ	1.0	120	5.8	63	6.8	£5.5 6 1	8.4	7.4
Molybdenum	סאסי ם\םוו	1.0	2	ND			ND		ND
Nickel	יפי פ∖פן	5.0	82	28.3	29 5	19.6	17 5	20 5	19.4
Selenium	σ /σ~ α/αιι	1.0	15	 ND	ND	ND	ND	ND	ND
Silver	∽6/δ ⊔p/σ	03	0.5	ND	ND	ND	ND	ND	ND
Thallium	∽6/δ ιισ/σ	1.0	1	ND	ND	ND	ND	ND	ND
Uranium	∽ъ/ъ ⊔ρ/σ	1.0	25	ND	ND	ND	ND	ND	ND
Vanadium	∽6/δ ⊔ρ/σ	10.0	86	68 1	67.7	45.2	37.2	51 3	52.4
Zinc	∽₀/₀ ιισ/σ	20.0	290	68.1	73 1	41 3	67.4	60.4	60 7
General Inorganics	∿⊳⁄ ठ	20.0	250	00.1	, , 1	71.5	U.1		
nH	nH Linite	0.05	NV	6.22			_	_	7 5 2
P''	Prionits	0.05	I V V	0.22		-	-	-	1.32

NV - No value listed in MECP site condition standards

- - Not Analyzed

ND - Not detected above laboratory method detection limits

Exceeds MECP site condition standards

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

Certificate of Analysis

Lopers & Associates		
30 Lansfield Way		
Ottawa, ON K2G 3V8		
Attn: Luke Lopers		
Client PO:		
Project: LOP20-003B		Report Date: 18-Sep-2020
Custody: 128622		Order Date: 2-Sep-2020
	Revised Report	Order #: 2036345

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

Paracel ID	Client ID	Paracel ID	Client ID
2036345-01	TP1		
2036345-02	TP2		
2036345-03	TP3		
2036345-04	TP4		
2036345-05	TP8		
2036345-06	TP11		

Approved By:

Dale Robertson, BSc Laboratory Director

Certificate of Analysis Client: Lopers & Associates Client PO:

BTEX by P&T GC-MS

Analysis

pH, soil

PHC F1

Solids, %

PHCs F2 to F4

Analysis Summary Table

REG 153: Metals by ICP/MS, soil

REG 153: PAHs by GC-MS

Report Date: 18-Sep-2020 Order Date: 2-Sep-2020 Project Description: LOP20-003B

Analysis Date

3-Sep-20

17-Sep-20

3-Sep-20

8-Sep-20

4-Sep-20

5-Sep-20

3-Sep-20

Extraction Date

2-Sep-20

17-Sep-20

2-Sep-20

3-Sep-20

4-Sep-20

3-Sep-20

3-Sep-20

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

Method Reference/Description

CWS Tier 1 - GC-FID, extraction

EPA 6020 - Digestion - ICP-MS

EPA 8270 - GC-MS, extraction

EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.

EPA 8260 - P&T GC-MS

CWS Tier 1 - P&T GC-FID

Gravimetric, calculation

Report Date: 18-Sep-2020 Order Date: 2-Sep-2020

Project Description: LOP20-003B

Criteria:

Summary of Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances. Regulatory limits displayed in brackets, (), applies to medium and fine textured soils.

Client ID Analyte MDL / Units Result Reg 153/04 (2011)-Table 1 Residential/Industrial					
	Client ID	Analyte	MDL / Units	Result	Reg 153/04 (2011)-Table 1 Residential/Industrial

PARACEL LABORATORIES LTD.

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

	Client ID	TP1	TP2	TP3	TP4	I
	Sample Date:	02-Sep-2020	02-Sep-2020	02-Sep-2020	02-Sep-2020	Criteria:
	Sample ID:	2036345-01	2036345-02	2036345-03	2036345-04	Reg 153/04 (2011)-Table 1 Residential/Industrial
	Matrix:	Soil	Soil	Soil	Soil	
	MDL/Units					
Physical Characteristics						
% Solids	0.1 % by Wt.	76.1	90.6	82.3	84.6	
General Inorganics						
рН	0.05 pH Units	6.22	-	-	-	5 - 9 pH units
Metals						
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.3 ug/g
Arsenic	1.0 ug/g	3.1	2.3	2.7	3.0	18 ug/g
Barium	1.0 ug/g	194	150	100	158	220 ug/g
Beryllium	0.5 ug/g	0.7	<0.5	0.7	0.7	2.5 ug/g
Boron	5.0 ug/g	<5.0	<5.0	<5.0	<5.0	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	<0.5	1.2 ug/g
Chromium	5.0 ug/g	55.4	34.1	29.2	39.2	70 ug/g
Cobalt	1.0 ug/g	13.2	10.8	8.5	10.7	21 ug/g
Copper	5.0 ug/g	22.6	23.5	15.3	18.2	92 ug/g
Lead	1.0 ug/g	5.8	6.8	6.1	8.4	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2 ug/g
Nickel	5.0 ug/g	28.3	19.6	17.5	20.5	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	<0.3	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	<1.0	2.5 ug/g
Vanadium	10.0 ug/g	68.1	45.2	37.2	51.3	86 ug/g
Zinc	20.0 ug/g	68.1	41.3	67.4	60.4	290 ug/g
Volatiles	· ·				-	

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Client ID:		TP1	TP2	TP3	TP4	
	Sample Date:	02-Sep-2020	02-Sep-2020	02-Sep-2020	02-Sep-2020	Criteria:
	Sample ID:	2036345-01	2036345-02	2036345-03	2036345-04	Reg 153/04 (2011)-Table 1 Residential/Industrial
	Matrix:	Soil	Soil	Soil	Soil	
	MDL/Units					
Benzene	0.02 ug/g	<0.02	<0.02	-	<0.02	0.02 ug/g
Ethylbenzene	0.05 ug/g	<0.05	<0.05	-	<0.05	0.05 ug/g
Toluene	0.05 ug/g	<0.05	<0.05	-	<0.05	0.2 ug/g
m,p-Xylenes	0.05 ug/g	<0.05	<0.05	-	<0.05	
o-Xylene	0.05 ug/g	<0.05	<0.05	-	<0.05	
Xylenes, total	0.05 ug/g	<0.05	<0.05	-	<0.05	0.05 ug/g
Toluene-d8	Surrogate	114%	119%	-	116%	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	<7	<7	-	<7	25 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	<4	-	<4	10 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	<8	-	<8	240 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	<6	-	<6	120 ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.48 ug/g
Chrysene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	2.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.1 ug/g
Fluoranthene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.56 ug/g

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

	Client ID:	TP1	TP2	TP3	TP4	
	Sample Date:	02-Sep-2020	02-Sep-2020	02-Sep-2020	02-Sep-2020	Criteria:
	Sample ID:	2036345-01	2036345-02	2036345-03	2036345-04	Reg 153/04 (2011)-Table 1 Residential/Industrial
	Matrix:	Soil	Soil	Soil	Soil	
	MDL/Units					
Fluorene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.12 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.23 ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.59 ug/g
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	<0.04	<0.04	0.59 ug/g
Naphthalene	0.01 ug/g	<0.01	<0.01	<0.01	<0.01	0.09 ug/g
Phenanthrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	0.69 ug/g
Pyrene	0.02 ug/g	<0.02	<0.02	<0.02	<0.02	1 ug/g
2-Fluorobiphenyl	Surrogate	93.3%	85.6%	57.5%	69.7%	
Terphenyl-d14	Surrogate	108%	93.5%	70.5%	81.8%	

PARACEL LABORATORIES LTD.

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

	Client ID:	TP8	TP11	-	-	I
	Sample Date:	02-Sep-2020	02-Sep-2020	-	-	Criteria:
	Sample ID:	2036345-05	2036345-06	-	-	Reg 153/04 (2011)-Table 1 Residential/Industrial
	Matrix:	Soil	Soil	-	-	
	MDL/Units					
Physical Characteristics	· · ·		•	.		
% Solids	0.1 % by Wt.	91.3	78.4	-	-	
General Inorganics						
рН	0.05 pH Units	7.52	-	-	-	5 - 9 pH units
Metals				-		
Antimony	1.0 ug/g	<1.0	<1.0	-	-	1.3 ug/g
Arsenic	1.0 ug/g	2.5	3.1	-	-	18 ug/g
Barium	1.0 ug/g	183	203	-	-	220 ug/g
Beryllium	0.5 ug/g	0.6	0.7	-	-	2.5 ug/g
Boron	5.0 ug/g	5.7	<5.0	-	-	36 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	-	-	1.2 ug/g
Chromium	5.0 ug/g	37.5	56.1	-	-	70 ug/g
Cobalt	1.0 ug/g	12.3	13.5	-	-	21 ug/g
Copper	5.0 ug/g	18.5	23.5	-	-	92 ug/g
Lead	1.0 ug/g	7.4	6.3	-	-	120 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	-	-	2 ug/g
Nickel	5.0 ug/g	19.4	29.5	-	-	82 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	-	-	1.5 ug/g
Silver	0.3 ug/g	<0.3	<0.3	-	-	0.5 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	-	-	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	-	-	2.5 ug/g
Vanadium	10.0 ug/g	52.4	67.7	-	-	86 ug/g
Zinc	20.0 ug/g	60.7	73.1	-	-	290 ug/g
Volatiles			•			

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Client ID:		TP8	TP11	-	-	1
	Sample Date:	02-Sep-2020	02-Sep-2020	-	-	Criteria:
	Sample ID:	2036345-05	2036345-06	-	-	Reg 153/04 (2011)-Table 1 Residential/Industrial
	Matrix:	Soil	Soil	-	-	
	MDL/Units					
Benzene	0.02 ug/g	-	<0.02	-	-	0.02 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene	0.05 ug/g	-	<0.05	-	-	0.2 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	
o-Xylene	0.05 ug/g	-	<0.05	-	-	
Xylenes, total	0.05 ug/g	-	<0.05	-	-	0.05 ug/g
Toluene-d8	Surrogate	-	119%	-	-	
Hydrocarbons						
F1 PHCs (C6-C10)	7 ug/g	-	<7	-	-	25 ug/g
F2 PHCs (C10-C16)	4 ug/g	-	<4	-	-	10 ug/g
F3 PHCs (C16-C34)	8 ug/g	-	<8	-	-	240 ug/g
F4 PHCs (C34-C50)	6 ug/g	-	<6	-	-	120 ug/g
Semi-Volatiles						
Acenaphthene	0.02 ug/g	<0.02	<0.02	-	-	0.072 ug/g
Acenaphthylene	0.02 ug/g	<0.02	<0.02	-	-	0.093 ug/g
Anthracene	0.02 ug/g	<0.02	<0.02	-	-	0.16 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	<0.02	-	-	0.36 ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	<0.02	-	-	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	<0.02	-	-	0.47 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	<0.02	-	-	0.68 ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	<0.02	-	-	0.48 ug/g
Chrysene	0.02 ug/g	<0.02	<0.02	-	-	2.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	<0.02	-	-	0.1 ug/g
Fluoranthene	0.02 ug/g	<0.02	<0.02	-	-	0.56 ug/g

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

	Client ID:	TP8	TP11	-	-		
	Sample Date:	mple Date: 02-Sep-2020 02-Sep-2020		-	-	Criteria:	
	Sample ID:	2036345-05	2036345-06	-	-	Reg 153/04 (2011)-Table 1 Residential/Industrial	
	Matrix:	Soil	Soil	-	-		
	MDL/Units						
Fluorene	0.02 ug/g	<0.02	<0.02	-	-	0.12 ug/g	
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	<0.02	-	-	0.23 ug/g	
1-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	-	-	0.59 ug/g	
2-Methylnaphthalene	0.02 ug/g	<0.02	<0.02	-	-	0.59 ug/g	
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	<0.04	-	-	0.59 ug/g	
Naphthalene	0.01 ug/g	<0.01	<0.01	-	-	0.09 ug/g	
Phenanthrene	0.02 ug/g	<0.02	<0.02	-	-	0.69 ug/g	
Pyrene	0.02 ug/g	<0.02	<0.02	-	-	1 ug/g	
2-Fluorobiphenyl	Surrogate	95.4%	88.2%	-	-		
Terphenyl-d14	Surrogate	101%	86.0%	-	-		

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Blank

	-									
	Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Нус	Irocarbons									
	F1 PHCs (C6-C10) F2 PHCs (C10-C16) F3 PHCs (C16-C34) F4 PHCs (C34-C50)	ND ND ND ND	7 4 8 6	ug/g ug/g ug/g ug/g						
Met	als									
	Antimony		1.0	ua/a						
	Arsenic Barium Beryllium Boron Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Scienium	ND ND ND ND ND ND ND ND ND ND	1.0 1.0 0.5 5.0 0.5 5.0 1.0 5.0 1.0 5.0 1.0	ug/g ug/g ug/g ug/g ug/g ug/g ug/g ug/g						
	Selenium Silver	ND ND	0.3	ug/g ug/g						
-	Thallium Uranium Vanadium Zinc	ND ND ND ND	1.0 1.0 10.0 20.0	ug/g ug/g ug/g ug/g						
Ser	ni-Volatiles									
	Acenaphthylene Anthracene Benzo [a] anthracene Benzo [b] fluoranthene Benzo [b], fluoranthene Benzo [g,h,i] perylene Benzo [k] fluoranthene Chrysene Dibenzo [a,h] anthracene	ND ND ND ND ND ND ND ND ND	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	ug/g ug/g ug/g ug/g ug/g ug/g ug/g ug/g						
	Fluoranthene Fluorene Indeno [1,2,3-cd] pyrene 1-Methylnaphthalene 2-Methylnaphthalene Methylnaphthalene (1&2)	ND ND ND ND ND ND	0.02 0.02 0.02 0.02 0.02 0.02 0.02	ug/g ug/g ug/g ug/g ug/g ug/g						

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

Order #: 2036345

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Blank

	Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
	Naphthalene	ND	0.01	ug/g						
	Phenanthrene	ND	0.02	ug/g						
	Pyrene	ND	0.02	ug/g						
	Surrogate: 2-Fluorobiphenyl	0.953		ug/g		71.5	50-140			
	Surrogate: Terphenyl-d14	1.25		ug/g		93.7	50-140			
Volat	iles									
	Benzene	ND	0.02	ug/g						
	Ethylbenzene	ND	0.05	ug/g						
	Toluene	ND	0.05	ug/g						
	m,p-Xylenes	ND	0.05	ug/g						
	o-Xylene	ND	0.05	ug/g						
	Xylenes, total	ND	0.05	ug/g						
	Surrogate: Toluene-d8	3.63		ug/g		113	50-140			

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Duplicate

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Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
рН	7.49	0.05	pH Units	7.36			1.8	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	na/a	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	32	8	ua/a	ND			NC	30	
F4 PHCs (C34-C50)	15	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	2.8	1.0	ug/g	2.4			18.8	30	
Barium	96.6	1.0	ug/g	96.1			0.5	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron	ND	5.0	ug/g	ND			NC	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	28.3	5.0	ug/g	26.8			5.4	30	
Cobalt	7.3	1.0	ug/g	6.9			5.6	30	
Copper	17.1	5.0	ug/g	15.9			7.2	30	
Lead	12.5	1.0	ug/g	12.0			4.4	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	16.3	5.0	ug/g	15.3			6.2	30	
Selenium	ND	1.0	ug/g	ND			NC	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	33.4	10.0	ug/g	31.2			6.9	30	
Zinc	47.9	20.0	ug/g	47.7			0.5	30	
Physical Characteristics									
% Solids	97.2	0.1	% by Wt.	95.3			1.9	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	

PARACEL LABORATORIES LTD.

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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	1.78		ug/g		89.1	50-140			
Surrogate: Terphenyl-d14	1.84		ug/g		92.4	50-140			
Volatiles									
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	3.95		ug/g		116	50-140			

Order #: 2036345

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	196	7	ug/g	ND	98.2	80-120			
F2 PHCs (C10-C16)	114	4	ug/g	ND	95.3	60-140			
F3 PHCs (C16-C34)	286	8	ug/g	ND	97.6	60-140			
F4 PHCs (C34-C50)	228	6	ug/g	ND	123	60-140			
Metals									
Antimony	45.5	1.0	ug/g	ND	91.0	70-130			
Arsenic	52.7	1.0	ug/g	ND	103	70-130			
Barium	86.5	1.0	ug/g	38.4	96.2	70-130			
Beryllium	51.1	0.5	ug/g	ND	102	70-130			
Boron	45.4	5.0	ug/g	ND	87.7	70-130			
Cadmium	48.9	0.5	ug/g	ND	97.8	70-130			
Chromium	63.0	5.0	ug/g	10.7	105	70-130			
Cobalt	53.7	1.0	ug/g	2.8	102	70-130			
Copper	55.1	5.0	ug/g	6.4	97.4	70-130			
Lead	51.4	1.0	ug/g	4.8	93.2	70-130			
Molybdenum	48.0	1.0	ug/g	ND	95.3	70-130			
Nickel	55.9	5.0	ug/g	6.1	99.4	70-130			
Selenium	49.9	1.0	ug/g	ND	99.5	70-130			
Silver	51.1	0.3	ug/g	ND	102	70-130			
Thallium	47.7	1.0	ug/g	ND	95.2	70-130			
Uranium	49.7	1.0	ug/g	ND	98.8	70-130			
Vanadium	65.2	10.0	ug/g	12.5	105	70-130			
Zinc	66.0	20.0	ug/g	ND	93.8	70-130			
Semi-Volatiles									
Acenaphthene	0.245	0.02	ug/g	ND	98.2	50-140			
Acenaphthylene	0.203	0.02	ug/g	ND	81.7	50-140			
Anthracene	0.213	0.02	ug/g	ND	85.7	50-140			
Benzo [a] anthracene	0.178	0.02	ug/g	ND	71.5	50-140			
Benzo [a] pyrene	0.190	0.02	ug/g	ND	76.4	50-140			
Benzo [b] fluoranthene	0.259	0.02	ug/g	ND	104	50-140			
Benzo [g,h,i] perylene	0.194	0.02	ug/g	ND	77.7	50-140			
Benzo [k] fluoranthene	0.244	0.02	ug/g	ND	98.1	50-140			
Chrysene	0.195	0.02	ug/g	ND	78.4	50-140			

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Method Quality Control: Spike

Ana	yte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dib	enzo [a,h] anthracene	0.194	0.02	ug/g	ND	78.0	50-140			
Flue	pranthene	0.209	0.02	ug/g	ND	83.7	50-140			
Flue	prene	0.221	0.02	ug/g	ND	88.7	50-140			
Inde	eno [1,2,3-cd] pyrene	0.196	0.02	ug/g	ND	78.6	50-140			
1-M	ethylnaphthalene	0.252	0.02	ug/g	ND	101	50-140			
2-N	ethylnaphthalene	0.280	0.02	ug/g	ND	112	50-140			
Nap	hthalene	0.260	0.01	ug/g	ND	105	50-140			
Phe	nanthrene	0.202	0.02	ug/g	ND	80.9	50-140			
Pyr	ene	0.207	0.02	ug/g	ND	83.1	50-140			
Sur	rogate: 2-Fluorobiphenyl	1.84		ug/g		92.1	50-140			
Sur	rogate: Terphenyl-d14	1.93		ug/g		96.7	50-140			
Volatile	s									
Ber	zene	2.89	0.02	ug/g	ND	72.3	60-130			
Eth	lbenzene	3.74	0.05	ug/g	ND	93.6	60-130			
Tolu	lene	4.00	0.05	ug/g	ND	100	60-130			
m,p	-Xylenes	7.95	0.05	ug/g	ND	99.3	60-130			
o-X	ylene	4.28	0.05	ug/g	ND	107	60-130			
Sur	rogate: Toluene-d8	2.88		ug/g		90.1	50-140			

Report Date: 18-Sep-2020

Order Date: 2-Sep-2020

Project Description: LOP20-003B

Certificate of Analysis

Client: Lopers & Associates

Client PO:

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

Revision 1- this report now includes data for pH

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/Solid results are reported on a dry weight basis unless otherwise indicated

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

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 #: 2036345

Report Date: 18-Sep-2020 Order Date: 2-Sep-2020

Project Description: LOP20-003B

Parac PARACE	el I	D: 2	0363	345		3lvd. 4J8 s.com	Para (25	Lab Use Only)					Chain Of Custody (Lab Use Only) N.º 128622					
Client Name: DPERS ASSOCIATES		Project Ref: LoP20-0048 Quote #:											Page 1 of Turnaround Time					
Address: 30 Lanticle Way, Ottawn, ON Telephone: G13-327-9073		E-mail: - Luke@ Lopers.ca											□ 2 day □ 3 day Date Required:					
Regulation 153/04 Other Regulation Table 1 Res/Park Med/Fine REG 558 PWQ0	N	latrix T SW (Su	atrix Type: S (Soil/Sed.) GW (Ground Water) W (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) Q (Other)								F	Required Analysis						
	rix	folume	Containers		Sample	Taken	Cs F1-F4+BTEX	cs	Is	tals by ICP			HWS)					
Sample ID/Location Name	Mati	AirV	# 10	Date		Time	PHO	Š	PA	Å	비	S	8					
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