



George Georgiou
15 Forester Court
Belleville, Ontario
K8P 5C4

June 18, 2021

Attention: Mr. George Georgiou

Due Diligent Soil Sampling Program – Rossmore Project

Rubicon Environmental (2008) Inc. was commissioned to complete a due diligent soil sampling program at a proposed residential property located at an undeveloped waterfront lot ('Rossmore Project') in Prince Edward County, Ontario, also referred to as the 'subject property'. Refer to Figure 1. The subject property is proposed to be redeveloped with residential land use. The scope of work included the collection of representative soil samples from five (5) specific locations (also referred to 'areas of potential environmental concern – APEC) on the subject property where fill material of unknown quality was previously removed. The purpose of this due diligent investigation was to confirm and ascertain the quality of the native soils in the specific locations (beneath) where fill material was previously stored and then removed. Refer to the attached figure and photographs.

Five (5) contaminants of potential concern associated with the APECs include: Petroleum Hydrocarbons (PHC F₁-F₄), Volatile Organic Compounds (VOCs), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Metals and Polycyclic Aromatic Hydrocarbons (PAHs). These contaminants of potential concern were identified using the Method Groups as outlined in the, "Protocol for the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011.

On May 31, 2021, Rubicon personnel completed the due diligent soil sampling on the subject property. A total of six (6) representative soil samples were collected from five (5) APECS ranging from surface level to 0.30 m below grade level. Soil samples were labelled as SS01 to SS06. Refer to Table 1 and Figure 2. An excavator was utilized for assisting with shallow test pits and sample collection. The bucket of the excavator was cleansed with 'Alconox' solution between sample locations to minimize the potential for cross-contamination.

Based on the field observations of the former stockpile locations, it is estimated to represent a total of 10-15 tonnes. According to the current owner, the imported soil was moved to another section of the property which is not part of this investigation.

The subject property was assessed using the Table 8 Generic Site Condition Standards for use within 30 m of a water body in potable groundwater condition with residential land use from the Ministry of Environment (MECP) document "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*" (April 15, 2011), referred to as MECP Table 8 Site Condition Standards (SCS).

The chemical analyses of all soil samples were completed by ALS, a member of the Canadian Association for Laboratory Accreditation Inc. (CALA) and meet the requirements of Section 47 of O.Reg. 153/04 certifying that the analytical laboratory be accredited in accordance with the International Standard ISO/IEC 17025 and with standards developed by the Standards Council of Canada.

The laboratory analytical results for all the soil samples analyzed showed that each of the locations and depths of samples submitted were below the proposed applicable site condition standards. None of the contaminants of potential concern which includes; Petroleum Hydrocarbons (PHC F₁-F₄), Volatile Organic Compounds (VOCs), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Metals and Polycyclic Aromatic Hydrocarbons (PAHs) was present at concentrations greater than the proposed applicable site condition standard, at any of the sampling locations. Refer to Tables 2-4.

Based on the laboratory analytical results, the quality of the soil within the areas investigated meets the applicable Table 8 Generic Site Condition Standards for use within 30 m of a water body in potable groundwater condition with residential land use from the Ministry of Environment (MECP) document "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the *Environmental Protection Act*" (April 15, 2011), referred to as MECP Table 8 Site Condition Standards (SCS).

It is the opinion of Rubicon that further environmental investigation is not warranted within the areas investigated.

Sincerely,

RUBICON ENVIRONMENTAL (2008) INC.



Paul D. Rew, P.Eng., QP

Table 1: Soil Sample Observations

SAMPLE ID	MAX DEPTH	COMMENTS
SS01	0.05 m	<ul style="list-style-type: none">• SS01 is located in the location of a small quantity of imported fill within APEC#1• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH
SS02	0.15	<ul style="list-style-type: none">• SS02 is located in the location of a small quantity of imported fill within APEC#2• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH
SS03	0.25	<ul style="list-style-type: none">• SS03 is located in the location of a small quantity of imported fill within APEC#3• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH
SS04	0.15	<ul style="list-style-type: none">• SS04 is located in the location of a small quantity of imported fill within APEC#4• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH
SS05	0.05	<ul style="list-style-type: none">• SS05 is located in the location of a small quantity of imported fill within APEC#5• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH
SS06	0.30	<ul style="list-style-type: none">• SS06 is located in the location of a small quantity of imported fill within APEC#5• No odours / staining present• Hydrocarbon vapour reading of <5 ppm using field instruments• Soil sample analyzed for PHC (F₁-F₄), BTEX, VOCs, METALS, PAHs, pH

TABLE 2: SOIL CHEMICAL ANALYSES – VOCs (including BTEX) / PHC -

PARAMETER			Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
			SS01	SS02	SS03	SS04	SS05	SS06
	Reg 153/04	MDL						
Acetone	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	0.02	0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dibromoethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropene (cis & trans)	0.05	0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Methylene Chloride	0.05	0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
1,2-Dichloropropane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
cis-1,3-Dichloropropene	-	0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
trans-1,3-Dichloropropene	-	0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ethyl Benzene	0.05	0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
n-Hexane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	0.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MTBE	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	0.2	0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1,1,1-Trichloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	0.25	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	0.02	0.020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	-	0.020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m+p-Xylenes	-	0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes (Total)	0.05	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PHC:	Reg 153/04	MDL						
F ₁ (C ₆ – C ₁₀)	25	5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F ₂ (C ₁₀ – C ₁₆)	10	10	<10	<10	<10	<10	<10	<10
F ₃ (C ₁₆ – C ₃₄)	240	50	98	<50	<50	<50	<50	<50
F ₄ (C ₃₄ – C ₅₀)	120	50	<50	<50	<50	<50	<50	<50

TABLE 3: SOIL CHEMICAL ANALYSES – Metals

PARAMETER			Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
			SS01	SS02	SS03	SS04	SS05	SS06
	Reg 153/04	MDL						
Antimony	1.3	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	18	1.0	2.2	2.3	3.2	3.2	3.2	4.0
Barium	220	1.0	24.2	23.2	40.4	40.1	42.7	50.5
Beryllium	2.5	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Boron	36	5.0	<5.0	5.3	7.0	6.6	7.0	8.8
Cadmium	1.2	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	70	1.0	9.4	9.0	12.6	12.3	12.2	15.7
Cobalt	22	1.0	2.8	2.7	3.4	3.5	3.6	4.5
Copper	22	1.0	7.8	8.3	9.2	9.5	9.4	11.4
Lead	120	1.0	8.3	8.9	11.2	12.8	12.1	11.7
Molybdenum	2	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	82	1.0	5.7	5.5	7.8	7.4	7.8	9.4
Selenium	1.5	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	0.5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	1	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	2.5	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	86	1.0	16.4	17.0	18.7	20.7	19.4	23.2
Zinc	290	1.0	41.9	43.1	44.2	46.6	47.3	55.9

TABLE 4: SOIL CHEMICAL ANALYSES – PAHs

PARAMETER			Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
			SS01	SS02	SS03	SS04	SS05	SS06
	Reg 153/04	MDL						
Acenaphthene	0.072	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	0.093	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	0.22	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo (a) anthracene	0.36	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo (a) pyrene	0.3	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo (b) fluoranthene	0.47	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo (g,h,i) perylene	0.68	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo (k) fluoranthene	0.48	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	2.8	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenzo (ah) anthracene	0.1	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	0.69	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	0.19	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno (1,2,3-cd) pyrene	0.23	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1+2 Methylnaphthalenes	0.59	0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
1-Methylnaphthalene	0.59	0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
2-Methylnaphthalene	0.59	0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	0.09	0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	0.69	0.46	<0.46	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	1.5	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050



View of former stockpile location of a small quantity of imported fill (SS01-APEC#1)



View of former stockpile location of a small quantity of imported fill (SS02-APEC#2, SS03-APEC#3)



View of former stockpile location of a small quantity of imported fill (SS04-APEC#4)



View of former stockpile location of a small quantity of imported fill (SS05-APEC#5)



R63065	NAME	DATE
DRAWN BY:	NL	June 2021
CHECKED BY:	PDR	June 2021
Prince Edward County, ON		



Figure 1:
Site
Location

* Image shown referenced from <https://maps.thecounty.ca/>

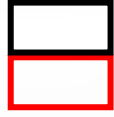


R63065	NAME	DATE
DRAWN BY:	NL	June 2021
CHECKED BY:	PDR	June 2021
Prince Edward County, ON		




Figure 2:
Site
Investigation –
Soil Sampling
Locations

Legend

APEC 

Approximate Site Boundary

Soil Sampling Location and Sample ID 

* Image shown referenced from <https://maps.thecounty.ca/>



RUBICON ENVIRONMENTAL INC.
ATTN: PAUL REW
60 Toronto St
FLESHERTON ON N0C 1E0

Date Received: 03-JUN-21
Report Date: 14-JUN-21 14:51 (MT)
Version: FINAL

Client Phone: 519-924-0003

Certificate of Analysis

Lab Work Order #: L2596408
Project P.O. #: NOT SUBMITTED
Job Reference: R63065
C of C Numbers:
Legal Site Desc:

Gayle Braun
Senior Account Manager

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ADDRESS: 309 Exeter Road Unit #29, London, ON N6L 1C1 Canada | Phone: +1 519 652 6044 | Fax: +1 519 652 0671
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ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-1 SS01										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Physical Tests										
	% Moisture	9.97		0.25	%	11-JUN-21				
	pH	7.67		0.10	pH units	11-JUN-21				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5
	Arsenic (As)	2.2		1.0	ug/g	11-JUN-21	18	18	18	18
	Barium (Ba)	24.2		1.0	ug/g	11-JUN-21	670	670	390	390
	Beryllium (Be)	<0.50		0.50	ug/g	11-JUN-21	8	10	4	5
	Boron (B)	<5.0		5.0	ug/g	11-JUN-21	120	120	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2
	Chromium (Cr)	9.4		1.0	ug/g	11-JUN-21	160	160	160	160
	Cobalt (Co)	2.8		1.0	ug/g	11-JUN-21	80	100	22	22
	Copper (Cu)	7.8		1.0	ug/g	11-JUN-21	230	300	140	180
	Lead (Pb)	8.3		1.0	ug/g	11-JUN-21	120	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9
	Nickel (Ni)	5.7		1.0	ug/g	11-JUN-21	270	340	100	130
	Selenium (Se)	<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4
	Silver (Ag)	<0.20		0.20	ug/g	11-JUN-21	40	50	20	25
	Thallium (Tl)	<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1
	Uranium (U)	<1.0		1.0	ug/g	11-JUN-21	33	33	23	23
	Vanadium (V)	16.4		1.0	ug/g	11-JUN-21	86	86	86	86
	Zinc (Zn)	41.9		5.0	ug/g	11-JUN-21	340	340	340	340
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
	Benzene	<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
	Bromoform	<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
	Bromomethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
	Chlorobenzene	<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
	Chloroform	<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
	1,2-Dibromoethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-1 SS01										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-JUN-21	70	88	16	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
	Surrogate: 4-Bromofluorobenzene	98.5		50-140	%	08-JUN-21				
	Surrogate: 1,4-Difluorobenzene	108.8		50-140	%	08-JUN-21				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	08-JUN-21	55	65	55	65
	F1-BTEX	<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
	F2 (C10-C16)	<10		10	ug/g	11-JUN-21	230	250	98	150
	F2-Naphth	<10		10	ug/g	14-JUN-21				
	F3 (C16-C34)	<50		50	ug/g	11-JUN-21	1700	2500	300	1300
	F3-PAH	<50		50	ug/g	14-JUN-21				
	F4 (C34-C50)	<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-JUN-21				
	Chrom. to baseline at nC50	YES			No Unit	11-JUN-21				
	Surrogate: 2-Bromobenzotrifluoride	79.9		60-140	%	11-JUN-21				
	Surrogate: 3,4-Dichlorotoluene	88.8		60-140	%	08-JUN-21				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
	Acenaphthylene	<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17
	Anthracene	<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74
	Benzo(a)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63
	Benzo(a)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
	Chrysene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1
	Fluoranthene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69
	Fluorene	<0.050		0.050	ug/g	14-JUN-21	62	69	62	69
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-1	SS01									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Polycyclic Aromatic Hydrocarbons										
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4
1-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
2-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
Naphthalene		<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75
Phenanthrene		<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8
Pyrene		<0.050		0.050	ug/g	14-JUN-21	96	96	78	78
Surrogate: 2-Fluorobiphenyl		90.2		50-140	%	14-JUN-21				
Surrogate: d14-Terphenyl		86.9		50-140	%	14-JUN-21				
L2596408-2	SS02									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Physical Tests										
% Moisture		7.38		0.25	%	11-JUN-21				
pH		7.52		0.10	pH units	11-JUN-21				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5
Arsenic (As)		2.3		1.0	ug/g	11-JUN-21	18	18	18	18
Barium (Ba)		23.2		1.0	ug/g	11-JUN-21	670	670	390	390
Beryllium (Be)		<0.50		0.50	ug/g	11-JUN-21	8	10	4	5
Boron (B)		5.3		5.0	ug/g	11-JUN-21	120	120	120	120
Cadmium (Cd)		<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2
Chromium (Cr)		9.0		1.0	ug/g	11-JUN-21	160	160	160	160
Cobalt (Co)		2.7		1.0	ug/g	11-JUN-21	80	100	22	22
Copper (Cu)		8.3		1.0	ug/g	11-JUN-21	230	300	140	180
Lead (Pb)		8.9		1.0	ug/g	11-JUN-21	120	120	120	120
Molybdenum (Mo)		<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9
Nickel (Ni)		5.5		1.0	ug/g	11-JUN-21	270	340	100	130
Selenium (Se)		<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4
Silver (Ag)		<0.20		0.20	ug/g	11-JUN-21	40	50	20	25
Thallium (Tl)		<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1
Uranium (U)		<1.0		1.0	ug/g	11-JUN-21	33	33	23	23
Vanadium (V)		17.0		1.0	ug/g	11-JUN-21	86	86	86	86
Zinc (Zn)		43.1		5.0	ug/g	11-JUN-21	340	340	340	340
Volatile Organic Compounds										
Acetone		<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
Benzene		<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
Bromodichloromethane		<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
Bromoform		<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
Bromomethane		<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
Carbon tetrachloride		<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
Chlorobenzene		<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
Dibromochloromethane		<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
Chloroform		<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
1,2-Dibromoethane		<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-2 SS02										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-JUN-21	70	88	16	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
	Surrogate: 4-Bromofluorobenzene	87.6		50-140	%	08-JUN-21				
	Surrogate: 1,4-Difluorobenzene	96.9		50-140	%	08-JUN-21				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	08-JUN-21	55	65	55	65
	F1-BTEX	<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
	F2 (C10-C16)	<10		10	ug/g	11-JUN-21	230	250	98	150
	F2-Naphth	<10		10	ug/g	14-JUN-21				
	F3 (C16-C34)	<50		50	ug/g	11-JUN-21	1700	2500	300	1300
	F3-PAH	<50		50	ug/g	14-JUN-21				
	F4 (C34-C50)	<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-JUN-21				
	Chrom. to baseline at nC50	YES			No Unit	11-JUN-21				
	Surrogate: 2-Bromobenzotrifluoride	84.3		60-140	%	11-JUN-21				
	Surrogate: 3,4-Dichlorotoluene	50.0	SURR-	60-140	%	08-JUN-21				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-2	SS02									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Hydrocarbons										
Polycyclic Aromatic Hydrocarbons			ND							
Acenaphthene		<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
Acenaphthylene		<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17
Anthracene		<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74
Benzo(a)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63
Benzo(a)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8
Benzo(k)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Chrysene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1
Fluoranthene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69
Fluorene		<0.050		0.050	ug/g	14-JUN-21	62	69	62	69
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4
1-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
2-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
Naphthalene		<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75
Phenanthrene		<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8
Pyrene		<0.050		0.050	ug/g	14-JUN-21	96	96	78	78
Surrogate: 2-Fluorobiphenyl		91.1		50-140	%	14-JUN-21				
Surrogate: d14-Terphenyl		87.2		50-140	%	14-JUN-21				
L2596408-3	SS03									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Physical Tests										
% Moisture		8.07		0.25	%	11-JUN-21				
pH		7.50		0.10	pH units	12-JUN-21				
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5
Arsenic (As)		3.2		1.0	ug/g	11-JUN-21	18	18	18	18
Barium (Ba)		40.4		1.0	ug/g	11-JUN-21	670	670	390	390
Beryllium (Be)		<0.50		0.50	ug/g	11-JUN-21	8	10	4	5
Boron (B)		7.0		5.0	ug/g	11-JUN-21	120	120	120	120
Cadmium (Cd)		<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2
Chromium (Cr)		12.6		1.0	ug/g	11-JUN-21	160	160	160	160
Cobalt (Co)		3.4		1.0	ug/g	11-JUN-21	80	100	22	22
Copper (Cu)		9.2		1.0	ug/g	11-JUN-21	230	300	140	180
Lead (Pb)		11.2		1.0	ug/g	11-JUN-21	120	120	120	120
Molybdenum (Mo)		<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9
Nickel (Ni)		7.8		1.0	ug/g	11-JUN-21	270	340	100	130
Selenium (Se)		<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4
Silver (Ag)		<0.20		0.20	ug/g	11-JUN-21	40	50	20	25

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)



ANALYTICAL GUIDELINE REPORT

L2596408 CONTD....

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R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-3 SS03										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Metals										
	Thallium (Tl)	<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1
	Uranium (U)	<1.0		1.0	ug/g	11-JUN-21	33	33	23	23
	Vanadium (V)	18.7		1.0	ug/g	11-JUN-21	86	86	86	86
	Zinc (Zn)	44.2		5.0	ug/g	11-JUN-21	340	340	340	340
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
	Benzene	<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
	Bromoform	<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
	Bromomethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
	Chlorobenzene	<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
	Chloroform	<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
	1,2-Dibromoethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-JUN-21	70	88	16	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-3	SS03									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
Xylenes (Total)		<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
Surrogate: 4-Bromofluorobenzene		97.0		50-140	%	08-JUN-21				
Surrogate: 1,4-Difluorobenzene		107.6		50-140	%	08-JUN-21				
Hydrocarbons										
F1 (C6-C10)		<5.0		5.0	ug/g	08-JUN-21	55	65	55	65
F1-BTEX		<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
F2 (C10-C16)		<10		10	ug/g	11-JUN-21	230	250	98	150
F2-Naphth		<10		10	ug/g	14-JUN-21				
F3 (C16-C34)		<50		50	ug/g	11-JUN-21	1700	2500	300	1300
F3-PAH		<50		50	ug/g	14-JUN-21				
F4 (C34-C50)		<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
Total Hydrocarbons (C6-C50)		<72		72	ug/g	14-JUN-21				
Chrom. to baseline at nC50		YES			No Unit	11-JUN-21				
Surrogate: 2-Bromobenzotrifluoride		89.1		60-140	%	11-JUN-21				
Surrogate: 3,4-Dichlorotoluene		55.3	SURR-ND	60-140	%	08-JUN-21				
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
Acenaphthylene		<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17
Anthracene		<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74
Benzo(a)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63
Benzo(a)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8
Benzo(k)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Chrysene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1
Fluoranthene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69
Fluorene		<0.050		0.050	ug/g	14-JUN-21	62	69	62	69
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4
1-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
2-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
Naphthalene		<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75
Phenanthrene		<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8
Pyrene		<0.050		0.050	ug/g	14-JUN-21	96	96	78	78
Surrogate: 2-Fluorobiphenyl		93.7		50-140	%	14-JUN-21				
Surrogate: d14-Terphenyl		90.8		50-140	%	14-JUN-21				
L2596408-4	SS04									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Physical Tests										
% Moisture		11.5		0.25	%	11-JUN-21				
pH		7.52		0.10	pH units	12-JUN-21				
Metals										

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-4 SS04										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5
	Arsenic (As)	3.2		1.0	ug/g	11-JUN-21	18	18	18	18
	Barium (Ba)	40.1		1.0	ug/g	11-JUN-21	670	670	390	390
	Beryllium (Be)	<0.50		0.50	ug/g	11-JUN-21	8	10	4	5
	Boron (B)	6.6		5.0	ug/g	11-JUN-21	120	120	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2
	Chromium (Cr)	12.3		1.0	ug/g	11-JUN-21	160	160	160	160
	Cobalt (Co)	3.5		1.0	ug/g	11-JUN-21	80	100	22	22
	Copper (Cu)	9.5		1.0	ug/g	11-JUN-21	230	300	140	180
	Lead (Pb)	12.8		1.0	ug/g	11-JUN-21	120	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9
	Nickel (Ni)	7.4		1.0	ug/g	11-JUN-21	270	340	100	130
	Selenium (Se)	<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4
	Silver (Ag)	<0.20		0.20	ug/g	11-JUN-21	40	50	20	25
	Thallium (Tl)	<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1
	Uranium (U)	<1.0		1.0	ug/g	11-JUN-21	33	33	23	23
	Vanadium (V)	20.7		1.0	ug/g	11-JUN-21	86	86	86	86
	Zinc (Zn)	46.6		5.0	ug/g	11-JUN-21	340	340	340	340
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
	Benzene	<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
	Bromoform	<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
	Bromomethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
	Chlorobenzene	<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
	Chloroform	<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
	1,2-Dibromoethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-JUN-21	70	88	16	44

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

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Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-4 SS04										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
	Surrogate: 4-Bromofluorobenzene	96.6		50-140	%	08-JUN-21				
	Surrogate: 1,4-Difluorobenzene	108.9		50-140	%	08-JUN-21				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	08-JUN-21	55	65	55	65
	F1-BTEX	<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
	F2 (C10-C16)	<10		10	ug/g	11-JUN-21	230	250	98	150
	F2-Naphth	<10		10	ug/g	14-JUN-21				
	F3 (C16-C34)	<50		50	ug/g	11-JUN-21	1700	2500	300	1300
	F3-PAH	<50		50	ug/g	14-JUN-21				
	F4 (C34-C50)	<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-JUN-21				
	Chrom. to baseline at nC50	YES			No Unit	11-JUN-21				
	Surrogate: 2-Bromobenzotrifluoride	85.9		60-140	%	11-JUN-21				
	Surrogate: 3,4-Dichlorotoluene	66.9		60-140	%	08-JUN-21				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
	Acenaphthylene	<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17
	Anthracene	<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74
	Benzo(a)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63
	Benzo(a)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
	Chrysene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1
	Fluoranthene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69
	Fluorene	<0.050		0.050	ug/g	14-JUN-21	62	69	62	69
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4
	1-Methylnaphthalene	<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
	2-Methylnaphthalene	<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-4	SS04									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Polycyclic Aromatic Hydrocarbons										
	Naphthalene	<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75
	Phenanthrene	<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8
	Pyrene	<0.050		0.050	ug/g	14-JUN-21	96	96	78	78
	Surrogate: 2-Fluorobiphenyl	91.8		50-140	%	14-JUN-21				
	Surrogate: d14-Terphenyl	88.5		50-140	%	14-JUN-21				
L2596408-5	SS05									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Physical Tests										
	% Moisture	11.3		0.25	%	11-JUN-21				
	pH	7.41		0.10	pH units	12-JUN-21				
Metals										
	Antimony (Sb)	<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5
	Arsenic (As)	3.2		1.0	ug/g	11-JUN-21	18	18	18	18
	Barium (Ba)	42.7		1.0	ug/g	11-JUN-21	670	670	390	390
	Beryllium (Be)	<0.50		0.50	ug/g	11-JUN-21	8	10	4	5
	Boron (B)	7.0		5.0	ug/g	11-JUN-21	120	120	120	120
	Cadmium (Cd)	<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2
	Chromium (Cr)	12.2		1.0	ug/g	11-JUN-21	160	160	160	160
	Cobalt (Co)	3.6		1.0	ug/g	11-JUN-21	80	100	22	22
	Copper (Cu)	9.4		1.0	ug/g	11-JUN-21	230	300	140	180
	Lead (Pb)	12.1		1.0	ug/g	11-JUN-21	120	120	120	120
	Molybdenum (Mo)	<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9
	Nickel (Ni)	7.8		1.0	ug/g	11-JUN-21	270	340	100	130
	Selenium (Se)	<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4
	Silver (Ag)	<0.20		0.20	ug/g	11-JUN-21	40	50	20	25
	Thallium (Tl)	<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1
	Uranium (U)	<1.0		1.0	ug/g	11-JUN-21	33	33	23	23
	Vanadium (V)	19.4		1.0	ug/g	11-JUN-21	86	86	86	86
	Zinc (Zn)	47.3		5.0	ug/g	11-JUN-21	340	340	340	340
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
	Benzene	<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
	Bromoform	<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
	Bromomethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
	Chlorobenzene	<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
	Chloroform	<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
	1,2-Dibromoethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097

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Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-5	SS05									
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	11-JUN-21	70	88	16	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
	Surrogate: 4-Bromofluorobenzene	98.1		50-140	%	08-JUN-21				
	Surrogate: 1,4-Difluorobenzene	110.2		50-140	%	08-JUN-21				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	08-JUN-21	55	65	55	65
	F1-BTEX	<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
	F2 (C10-C16)	<10		10	ug/g	11-JUN-21	230	250	98	150
	F2-Naphth	<10		10	ug/g	14-JUN-21				
	F3 (C16-C34)	<50		50	ug/g	11-JUN-21	1700	2500	300	1300
	F3-PAH	<50		50	ug/g	14-JUN-21				
	F4 (C34-C50)	<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
	Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-JUN-21				
	Chrom. to baseline at nC50	YES			No Unit	11-JUN-21				
	Surrogate: 2-Bromobenzotrifluoride	84.5		60-140	%	11-JUN-21				
	Surrogate: 3,4-Dichlorotoluene	81.5		60-140	%	08-JUN-21				
Polycyclic Aromatic Hydrocarbons										
	Acenaphthene	<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
	Acenaphthylene	<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17

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#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits				
L2596408-5 SS05 Sampled By: CLIENT on 31-MAY-21 Matrix: SOIL Polycyclic Aromatic Hydrocarbons	Anthracene	<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74	
	Benzo(a)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63	
	Benzo(a)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3	
	Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78	
	Benzo(g,h,i)perylene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8	
	Benzo(k)fluoranthene	<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78	
	Chrysene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8	
	Dibenz(a,h)anthracene	<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1	
	Fluoranthene	<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69	
	Fluorene	<0.050		0.050	ug/g	14-JUN-21	62	69	62	69	
	Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48	
	1+2-Methylnaphthalenes	<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4	
	1-Methylnaphthalene	<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4	
	2-Methylnaphthalene	<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4	
	Naphthalene	<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75	
	Phenanthrene	<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8	
	Pyrene	<0.050		0.050	ug/g	14-JUN-21	96	96	78	78	
	Surrogate: 2-Fluorobiphenyl	82.0		50-140	%	14-JUN-21					
	Surrogate: d14-Terphenyl	81.9		50-140	%	14-JUN-21					
	L2596408-6 SS06 Sampled By: CLIENT on 31-MAY-21 Matrix: SOIL Physical Tests	% Moisture	10.6		0.25	%	11-JUN-21				
pH		7.42		0.10	pH units	12-JUN-21					
Metals											
Antimony (Sb)		<1.0		1.0	ug/g	11-JUN-21	40	50	7.5	7.5	
Arsenic (As)		4.0		1.0	ug/g	11-JUN-21	18	18	18	18	
Barium (Ba)		50.5		1.0	ug/g	11-JUN-21	670	670	390	390	
Beryllium (Be)		<0.50		0.50	ug/g	11-JUN-21	8	10	4	5	
Boron (B)		8.8		5.0	ug/g	11-JUN-21	120	120	120	120	
Cadmium (Cd)		<0.50		0.50	ug/g	11-JUN-21	1.9	1.9	1.2	1.2	
Chromium (Cr)		15.7		1.0	ug/g	11-JUN-21	160	160	160	160	
Cobalt (Co)		4.5		1.0	ug/g	11-JUN-21	80	100	22	22	
Copper (Cu)		11.4		1.0	ug/g	11-JUN-21	230	300	140	180	
Lead (Pb)		14.7		1.0	ug/g	11-JUN-21	120	120	120	120	
Molybdenum (Mo)		<1.0		1.0	ug/g	11-JUN-21	40	40	6.9	6.9	
Nickel (Ni)		9.4		1.0	ug/g	11-JUN-21	270	340	100	130	
Selenium (Se)		<1.0		1.0	ug/g	11-JUN-21	5.5	5.5	2.4	2.4	
Silver (Ag)		<0.20		0.20	ug/g	11-JUN-21	40	50	20	25	
Thallium (Tl)		<0.50		0.50	ug/g	11-JUN-21	3.3	3.3	1	1	
Uranium (U)		<1.0		1.0	ug/g	11-JUN-21	33	33	23	23	
Vanadium (V)		23.2		1.0	ug/g	11-JUN-21	86	86	86	86	
Zinc (Zn)	55.9		5.0	ug/g	11-JUN-21	340	340	340	340		
Volatile Organic Compounds											

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Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

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#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-6 SS06										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Volatile Organic Compounds										
	Acetone	<0.50		0.50	ug/g	08-JUN-21	16	28	16	28
	Benzene	<0.0068		0.0068	ug/g	08-JUN-21	0.32	0.4	0.21	0.17
	Bromodichloromethane	<0.050		0.050	ug/g	08-JUN-21	1.5	1.9	1.5	1.9
	Bromoform	<0.050		0.050	ug/g	08-JUN-21	0.61	1.7	0.27	0.26
	Bromomethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	Carbon tetrachloride	<0.050		0.050	ug/g	08-JUN-21	0.21	0.71	0.05	0.12
	Chlorobenzene	<0.050		0.050	ug/g	08-JUN-21	2.4	2.7	2.4	2.7
	Dibromochloromethane	<0.050		0.050	ug/g	08-JUN-21	2.3	2.9	2.3	2.9
	Chloroform	<0.050		0.050	ug/g	08-JUN-21	0.47	0.18	0.05	0.17
	1,2-Dibromoethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,2-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	1.2	1.7	1.2	1.7
	1,3-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	9.6	12	4.8	6
	1,4-Dichlorobenzene	<0.050		0.050	ug/g	08-JUN-21	0.2	0.57	0.083	0.097
	Dichlorodifluoromethane	<0.050		0.050	ug/g	08-JUN-21	16	25	16	25
	1,1-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.47	0.6	0.47	0.6
	1,2-Dichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.05	0.05	0.05
	1,1-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	0.064	0.48	0.05	0.05
	cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	1.9	2.5
	trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.3	2.5	0.084	0.75
	Methylene Chloride	<0.050		0.050	ug/g	08-JUN-21	1.6	2	0.1	0.96
	1,2-Dichloropropane	<0.050		0.050	ug/g	08-JUN-21	0.16	0.68	0.05	0.085
	cis-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	trans-1,3-Dichloropropene	<0.030		0.030	ug/g	08-JUN-21				
	1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	11-JUN-21	0.059	0.081	0.05	0.081
	Ethylbenzene	<0.018		0.018	ug/g	08-JUN-21	1.1	1.6	1.1	1.6
	n-Hexane	<0.050		0.050	ug/g	08-JUN-21	46	88	2.8	34
	Methyl Ethyl Ketone	<0.50		0.50	ug/g	08-JUN-21	70	88	16	44
	Methyl Isobutyl Ketone	<0.50		0.50	ug/g	08-JUN-21	31	210	1.7	4.3
	MTBE	<0.050		0.050	ug/g	08-JUN-21	1.6	2.3	0.75	1.4
	Styrene	<0.050		0.050	ug/g	08-JUN-21	34	43	0.7	2.2
	1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.087	0.11	0.058	0.05
	1,1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.094	0.05	0.05
	Tetrachloroethylene	<0.050		0.050	ug/g	08-JUN-21	1.9	2.5	0.28	2.3
	Toluene	<0.080		0.080	ug/g	08-JUN-21	6.4	9	2.3	6
	1,1,1-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	6.1	12	0.38	3.4
	1,1,2-Trichloroethane	<0.050		0.050	ug/g	08-JUN-21	0.05	0.11	0.05	0.05
	Trichloroethylene	<0.010		0.010	ug/g	08-JUN-21	0.55	0.61	0.061	0.52
	Trichlorofluoromethane	<0.050		0.050	ug/g	08-JUN-21	4	5.8	4	5.8
	Vinyl chloride	<0.020		0.020	ug/g	08-JUN-21	0.032	0.25	0.02	0.022
	o-Xylene	<0.020		0.020	ug/g	08-JUN-21				
	m+p-Xylenes	<0.030		0.030	ug/g	08-JUN-21				
	Xylenes (Total)	<0.050		0.050	ug/g	11-JUN-21	26	30	3.1	25
	Surrogate: 4-Bromofluorobenzene	87.7		50-140	%	08-JUN-21				
	Surrogate: 1,4-Difluorobenzene	97.0		50-140	%	08-JUN-21				
Hydrocarbons										
	F1 (C6-C10)	<5.0		5.0	ug/g	08-JUN-21	55	65	55	65

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* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

R63065

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte						#1	#2	#3	#4
L2596408-6 SS06										
Sampled By: CLIENT on 31-MAY-21										
Matrix: SOIL										
Hydrocarbons										
F1-BTEX		<5.0		5.0	ug/g	14-JUN-21	55	65	55	65
F2 (C10-C16)		<10		10	ug/g	11-JUN-21	230	250	98	150
F2-Naphth		<10		10	ug/g	14-JUN-21				
F3 (C16-C34)		<50		50	ug/g	11-JUN-21	1700	2500	300	1300
F3-PAH		<50		50	ug/g	14-JUN-21				
F4 (C34-C50)		<50		50	ug/g	11-JUN-21	3300	6600	2800	5600
Total Hydrocarbons (C6-C50)		<72		72	ug/g	14-JUN-21				
Chrom. to baseline at nC50		YES			No Unit	11-JUN-21				
Surrogate: 2-Bromobenzotrifluoride		87.5		60-140	%	11-JUN-21				
Surrogate: 3,4-Dichlorotoluene		75.5		60-140	%	08-JUN-21				
Polycyclic Aromatic Hydrocarbons										
Acenaphthene		<0.050		0.050	ug/g	14-JUN-21	21	29	7.9	29
Acenaphthylene		<0.050		0.050	ug/g	14-JUN-21	0.15	0.17	0.15	0.17
Anthracene		<0.050		0.050	ug/g	14-JUN-21	0.67	0.74	0.67	0.74
Benzo(a)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.5	0.63
Benzo(a)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.3	0.3	0.3	0.3
Benzo(b&j)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Benzo(g,h,i)perylene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	6.6	7.8
Benzo(k)fluoranthene		<0.050		0.050	ug/g	14-JUN-21	0.96	0.96	0.78	0.78
Chrysene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	7	7.8
Dibenz(a,h)anthracene		<0.050		0.050	ug/g	14-JUN-21	0.1	0.1	0.1	0.1
Fluoranthene		<0.050		0.050	ug/g	14-JUN-21	9.6	9.6	0.69	0.69
Fluorene		<0.050		0.050	ug/g	14-JUN-21	62	69	62	69
Indeno(1,2,3-cd)pyrene		<0.050		0.050	ug/g	14-JUN-21	0.76	0.95	0.38	0.48
1+2-Methylnaphthalenes		<0.042		0.042	ug/g	14-JUN-21	30	42	0.99	3.4
1-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
2-Methylnaphthalene		<0.030		0.030	ug/g	14-JUN-21	30	42	0.99	3.4
Naphthalene		<0.013		0.013	ug/g	14-JUN-21	9.6	28	0.6	0.75
Phenanthrene		<0.046		0.046	ug/g	14-JUN-21	12	16	6.2	7.8
Pyrene		<0.050		0.050	ug/g	14-JUN-21	96	96	78	78
Surrogate: 2-Fluorobiphenyl		86.6		50-140	%	14-JUN-21				
Surrogate: d14-Terphenyl		90.0		50-140	%	14-JUN-21				

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T6-SOIL-RPIICC-C/F

#1: T6-Soil-Ind/Com/Commu Property Use (Coarse)

#2: T6-Soil-Ind/Com/Commu Property Use (Fine)

#3: T6-Soil-Res/Park/Inst. Property Use (Coarse)

#4: T6-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT	Soil	F1-O.Reg 153/04 (July 2011)	E3398/CCME TIER 1-HS
--------------	------	-----------------------------	----------------------

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT	Soil	F2-F4-O.Reg 153/04 (July 2011)	CCME Tier 1
--------------	------	--------------------------------	-------------

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
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Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H₂S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

METHYLNAPS-CALC-WT	Soil	ABN-Calculated Parameters	SW846 8270
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique is used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Soil	pH	MOEE E3137A
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A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION
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Total xylenes represents the sum of o-xylene and m&p-xylene.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

Workorder: L2596408

Report Date: 14-JUN-21

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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil						
Batch	R5480452							
WG3547843-4	DUP	WG3547843-3						
F1 (C6-C10)		17.1	14.3		ug/g	18	30	08-JUN-21
WG3547843-2	LCS							
F1 (C6-C10)			108.4		%		80-120	08-JUN-21
WG3547843-1	MB							
F1 (C6-C10)			<5.0		ug/g		5	08-JUN-21
Surrogate: 3,4-Dichlorotoluene			95.6		%		60-140	08-JUN-21
WG3547843-5	MS	WG3547843-3						
F1 (C6-C10)			99.6		%		60-140	08-JUN-21
F2-F4-511-WT		Soil						
Batch	R5485857							
WG3551797-3	DUP	WG3551797-3						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	11-JUN-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	11-JUN-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	11-JUN-21
WG3551797-2	LCS							
F2 (C10-C16)			107.5		%		80-120	11-JUN-21
F3 (C16-C34)			107.5		%		80-120	11-JUN-21
F4 (C34-C50)			99.8		%		80-120	11-JUN-21
WG3551797-1	MB							
F2 (C10-C16)			<10		ug/g		10	11-JUN-21
F3 (C16-C34)			<50		ug/g		50	11-JUN-21
F4 (C34-C50)			<50		ug/g		50	11-JUN-21
Surrogate: 2-Bromobenzotrifluoride			95.7		%		60-140	11-JUN-21
WG3551797-4	MS	WG3551797-5						
F2 (C10-C16)			102.2		%		60-140	11-JUN-21
F3 (C16-C34)			106.3		%		60-140	11-JUN-21
F4 (C34-C50)			99.2		%		60-140	11-JUN-21
Batch	R5487201							
WG3551827-3	DUP	WG3551827-3						
F2 (C10-C16)		<10	<10	RPD-NA	ug/g	N/A	30	11-JUN-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	11-JUN-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	11-JUN-21
WG3551827-2	LCS							
F2 (C10-C16)			102.6		%		80-120	11-JUN-21
F3 (C16-C34)			101.0		%		80-120	11-JUN-21



Quality Control Report

Workorder: L2596408

Report Date: 14-JUN-21

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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT		Soil						
Batch	R5487201							
WG3551827-2	LCS							
F4 (C34-C50)			99.9		%		80-120	11-JUN-21
WG3551827-1	MB							
F2 (C10-C16)			<10		ug/g		10	11-JUN-21
F3 (C16-C34)			<50		ug/g		50	11-JUN-21
F4 (C34-C50)			<50		ug/g		50	11-JUN-21
Surrogate: 2-Bromobenzotrifluoride			85.0		%		60-140	11-JUN-21
WG3551827-4	MS	WG3551827-5						
F2 (C10-C16)			100.6		%		60-140	11-JUN-21
F3 (C16-C34)			101.6		%		60-140	11-JUN-21
F4 (C34-C50)			99.6		%		60-140	11-JUN-21
MET-200.2-CCMS-WT		Soil						
Batch	R5486959							
WG3552290-2	CRM	WT-SS-2						
Antimony (Sb)			89.5		%		70-130	11-JUN-21
Arsenic (As)			106.3		%		70-130	11-JUN-21
Barium (Ba)			111.2		%		70-130	11-JUN-21
Beryllium (Be)			101.2		%		70-130	11-JUN-21
Boron (B)			9.0		mg/kg		3.5-13.5	11-JUN-21
Cadmium (Cd)			111.4		%		70-130	11-JUN-21
Chromium (Cr)			107.2		%		70-130	11-JUN-21
Cobalt (Co)			106.6		%		70-130	11-JUN-21
Copper (Cu)			104.8		%		70-130	11-JUN-21
Lead (Pb)			103.9		%		70-130	11-JUN-21
Molybdenum (Mo)			98.0		%		70-130	11-JUN-21
Nickel (Ni)			107.4		%		70-130	11-JUN-21
Selenium (Se)			0.24		mg/kg		0-0.34	11-JUN-21
Silver (Ag)			80.3		%		70-130	11-JUN-21
Thallium (Tl)			0.077		mg/kg		0.029-0.129	11-JUN-21
Uranium (U)			88.6		%		70-130	11-JUN-21
Vanadium (V)			108.5		%		70-130	11-JUN-21
Zinc (Zn)			101.4		%		70-130	11-JUN-21
WG3552290-6	DUP	WG3552290-5						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	11-JUN-21
Arsenic (As)		1.65	1.86		ug/g	12	30	11-JUN-21



Quality Control Report

Workorder: L2596408

Report Date: 14-JUN-21

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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5486959							
WG3552290-6	DUP	WG3552290-5						
Barium (Ba)		45.1	47.4		ug/g	5.2	40	11-JUN-21
Beryllium (Be)		0.35	0.40		ug/g	12	30	11-JUN-21
Boron (B)		7.2	8.1		ug/g	12	30	11-JUN-21
Cadmium (Cd)		0.058	0.060		ug/g	2.8	30	11-JUN-21
Chromium (Cr)		16.6	17.6		ug/g	5.5	30	11-JUN-21
Cobalt (Co)		5.47	6.15		ug/g	12	30	11-JUN-21
Copper (Cu)		10.6	11.3		ug/g	6.5	30	11-JUN-21
Lead (Pb)		5.64	6.85		ug/g	19	40	11-JUN-21
Molybdenum (Mo)		0.38	0.38		ug/g	0.2	40	11-JUN-21
Nickel (Ni)		12.1	12.3		ug/g	2.0	30	11-JUN-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	11-JUN-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	11-JUN-21
Thallium (Tl)		0.085	0.096		ug/g	12	30	11-JUN-21
Uranium (U)		0.534	0.591		ug/g	10	30	11-JUN-21
Vanadium (V)		28.6	29.8		ug/g	4.3	30	11-JUN-21
Zinc (Zn)		26.9	29.0		ug/g	7.2	30	11-JUN-21
WG3552290-4	LCS							
Antimony (Sb)			106.4		%		80-120	11-JUN-21
Arsenic (As)			106.5		%		80-120	11-JUN-21
Barium (Ba)			103.1		%		80-120	11-JUN-21
Beryllium (Be)			99.0		%		80-120	11-JUN-21
Boron (B)			95.6		%		80-120	11-JUN-21
Cadmium (Cd)			98.9		%		80-120	11-JUN-21
Chromium (Cr)			104.5		%		80-120	11-JUN-21
Cobalt (Co)			104.3		%		80-120	11-JUN-21
Copper (Cu)			101.8		%		80-120	11-JUN-21
Lead (Pb)			105.5		%		80-120	11-JUN-21
Molybdenum (Mo)			102.8		%		80-120	11-JUN-21
Nickel (Ni)			101.7		%		80-120	11-JUN-21
Selenium (Se)			102.4		%		80-120	11-JUN-21
Silver (Ag)			103.8		%		80-120	11-JUN-21
Thallium (Tl)			102.4		%		80-120	11-JUN-21
Uranium (U)			90.0		%		80-120	11-JUN-21



Quality Control Report

Workorder: L2596408

Report Date: 14-JUN-21

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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT								
Soil								
Batch R5486959								
WG3552290-4 LCS								
			107.7		%		80-120	11-JUN-21
			99.6		%		80-120	11-JUN-21
WG3552290-1 MB								
			<0.10		mg/kg		0.1	11-JUN-21
			<0.10		mg/kg		0.1	11-JUN-21
			<0.50		mg/kg		0.5	11-JUN-21
			<0.10		mg/kg		0.1	11-JUN-21
			<5.0		mg/kg		5	11-JUN-21
			<0.020		mg/kg		0.02	11-JUN-21
			<0.50		mg/kg		0.5	11-JUN-21
			<0.10		mg/kg		0.1	11-JUN-21
			<0.50		mg/kg		0.5	11-JUN-21
			<0.50		mg/kg		0.5	11-JUN-21
			<0.10		mg/kg		0.1	11-JUN-21
			<0.20		mg/kg		0.2	11-JUN-21
			<0.10		mg/kg		0.1	11-JUN-21
			<0.050		mg/kg		0.05	11-JUN-21
			<0.050		mg/kg		0.05	11-JUN-21
			<0.20		mg/kg		0.2	11-JUN-21
			<2.0		mg/kg		2	11-JUN-21
Batch R5489877								
WG3552333-9 CRM								
		WT-SS-2	99.1		%		70-130	11-JUN-21
			124.8		%		70-130	11-JUN-21
			123.7		%		70-130	11-JUN-21
			106.0		%		70-130	11-JUN-21
			10.0		mg/kg		3.5-13.5	11-JUN-21
			107.3		%		70-130	11-JUN-21
			123.7		%		70-130	11-JUN-21
			108.5		%		70-130	11-JUN-21
			116.1		%		70-130	11-JUN-21
			109.8		%		70-130	11-JUN-21
			103.7		%		70-130	11-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5489877							
WG3552333-9	CRM	WT-SS-2						
Nickel (Ni)			117.9		%		70-130	11-JUN-21
Selenium (Se)			0.16		mg/kg		0-0.34	11-JUN-21
Silver (Ag)			94.3		%		70-130	11-JUN-21
Thallium (Tl)			0.078		mg/kg		0.029-0.129	11-JUN-21
Uranium (U)			110.4		%		70-130	11-JUN-21
Vanadium (V)			118.0		%		70-130	11-JUN-21
Zinc (Zn)			107.0		%		70-130	11-JUN-21
WG3552333-13	DUP	WG3552333-12						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	11-JUN-21
Arsenic (As)		4.01	4.06		ug/g	1.2	30	11-JUN-21
Barium (Ba)		26.0	26.5		ug/g	1.9	40	11-JUN-21
Beryllium (Be)		0.26	0.25		ug/g	1.6	30	11-JUN-21
Boron (B)		8.2	8.2		ug/g	0.8	30	11-JUN-21
Cadmium (Cd)		0.359	0.354		ug/g	1.4	30	11-JUN-21
Chromium (Cr)		9.83	9.80		ug/g	0.3	30	11-JUN-21
Cobalt (Co)		4.29	4.42		ug/g	3.0	30	11-JUN-21
Copper (Cu)		16.3	16.5		ug/g	0.9	30	11-JUN-21
Lead (Pb)		11.7	12.2		ug/g	3.6	40	11-JUN-21
Molybdenum (Mo)		0.25	0.24		ug/g	0.8	40	11-JUN-21
Nickel (Ni)		8.96	9.02		ug/g	0.8	30	11-JUN-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	11-JUN-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	11-JUN-21
Thallium (Tl)		0.063	0.066		ug/g	4.0	30	11-JUN-21
Uranium (U)		0.476	0.512		ug/g	7.4	30	11-JUN-21
Vanadium (V)		18.9	18.8		ug/g	0.6	30	11-JUN-21
Zinc (Zn)		92.6	96.9		ug/g	4.6	30	11-JUN-21
WG3552333-11	LCS							
Antimony (Sb)			110.5		%		80-120	11-JUN-21
Arsenic (As)			110.7		%		80-120	11-JUN-21
Barium (Ba)			108.7		%		80-120	11-JUN-21
Beryllium (Be)			95.0		%		80-120	11-JUN-21
Boron (B)			97.9		%		80-120	11-JUN-21
Cadmium (Cd)			104.5		%		80-120	11-JUN-21



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60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch	R5489877							
WG3552333-11	LCS							
Chromium (Cr)			109.7		%		80-120	11-JUN-21
Cobalt (Co)			104.6		%		80-120	11-JUN-21
Copper (Cu)			106.1		%		80-120	11-JUN-21
Lead (Pb)			109.3		%		80-120	11-JUN-21
Molybdenum (Mo)			100.1		%		80-120	11-JUN-21
Nickel (Ni)			107.2		%		80-120	11-JUN-21
Selenium (Se)			108.2		%		80-120	11-JUN-21
Silver (Ag)			99.6		%		80-120	11-JUN-21
Thallium (Tl)			102.3		%		80-120	11-JUN-21
Uranium (U)			102.7		%		80-120	11-JUN-21
Vanadium (V)			112.2		%		80-120	11-JUN-21
Zinc (Zn)			106.1		%		80-120	11-JUN-21
WG3552333-8	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	11-JUN-21
Arsenic (As)			<0.10		mg/kg		0.1	11-JUN-21
Barium (Ba)			<0.50		mg/kg		0.5	11-JUN-21
Beryllium (Be)			<0.10		mg/kg		0.1	11-JUN-21
Boron (B)			<5.0		mg/kg		5	11-JUN-21
Cadmium (Cd)			<0.020		mg/kg		0.02	11-JUN-21
Chromium (Cr)			<0.50		mg/kg		0.5	11-JUN-21
Cobalt (Co)			<0.10		mg/kg		0.1	11-JUN-21
Copper (Cu)			<0.50		mg/kg		0.5	11-JUN-21
Lead (Pb)			<0.50		mg/kg		0.5	11-JUN-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	11-JUN-21
Nickel (Ni)			<0.50		mg/kg		0.5	11-JUN-21
Selenium (Se)			<0.20		mg/kg		0.2	11-JUN-21
Silver (Ag)			<0.10		mg/kg		0.1	11-JUN-21
Thallium (Tl)			<0.050		mg/kg		0.05	11-JUN-21
Uranium (U)			<0.050		mg/kg		0.05	11-JUN-21
Vanadium (V)			<0.20		mg/kg		0.2	11-JUN-21
Zinc (Zn)			<2.0		mg/kg		2	11-JUN-21

MOISTURE-WT **Soil**



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R5484539							
WG3551816-3	DUP	L2596317-1						
% Moisture		6.17	6.13		%	0.6	20	11-JUN-21
WG3551816-2	LCS							
% Moisture			100.8		%		90-110	11-JUN-21
WG3551816-1	MB							
% Moisture			<0.25		%		0.25	11-JUN-21
PAH-511-WT		Soil						
Batch	R5489142							
WG3551932-3	DUP	WG3551932-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-JUN-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-JUN-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	14-JUN-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	14-JUN-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
WG3551932-2	LCS							
1-Methylnaphthalene			96.8		%		50-140	14-JUN-21
2-Methylnaphthalene			90.9		%		50-140	14-JUN-21
Acenaphthene			90.4		%		50-140	14-JUN-21
Acenaphthylene			83.5		%		50-140	14-JUN-21
Anthracene			89.0		%		50-140	14-JUN-21
Benzo(a)anthracene			93.8		%		50-140	14-JUN-21
Benzo(a)pyrene			92.1		%		50-140	14-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch	R5489142							
WG3551932-2 LCS								
Benzo(b&j)fluoranthene			105.0		%		50-140	14-JUN-21
Benzo(g,h,i)perylene			93.5		%		50-140	14-JUN-21
Benzo(k)fluoranthene			90.5		%		50-140	14-JUN-21
Chrysene			100.9		%		50-140	14-JUN-21
Dibenz(a,h)anthracene			93.1		%		50-140	14-JUN-21
Fluoranthene			90.9		%		50-140	14-JUN-21
Fluorene			89.2		%		50-140	14-JUN-21
Indeno(1,2,3-cd)pyrene			82.1		%		50-140	14-JUN-21
Naphthalene			94.4		%		50-140	14-JUN-21
Phenanthrene			96.9		%		50-140	14-JUN-21
Pyrene			90.7		%		50-140	14-JUN-21
WG3551932-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	14-JUN-21
2-Methylnaphthalene			<0.030		ug/g		0.03	14-JUN-21
Acenaphthene			<0.050		ug/g		0.05	14-JUN-21
Acenaphthylene			<0.050		ug/g		0.05	14-JUN-21
Anthracene			<0.050		ug/g		0.05	14-JUN-21
Benzo(a)anthracene			<0.050		ug/g		0.05	14-JUN-21
Benzo(a)pyrene			<0.050		ug/g		0.05	14-JUN-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	14-JUN-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	14-JUN-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	14-JUN-21
Chrysene			<0.050		ug/g		0.05	14-JUN-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	14-JUN-21
Fluoranthene			<0.050		ug/g		0.05	14-JUN-21
Fluorene			<0.050		ug/g		0.05	14-JUN-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	14-JUN-21
Naphthalene			<0.013		ug/g		0.013	14-JUN-21
Phenanthrene			<0.046		ug/g		0.046	14-JUN-21
Pyrene			<0.050		ug/g		0.05	14-JUN-21
Surrogate: 2-Fluorobiphenyl			81.6		%		50-140	14-JUN-21
Surrogate: d14-Terphenyl			78.8		%		50-140	14-JUN-21
WG3551932-4 MS		WG3551932-5						
1-Methylnaphthalene			99.9		%		50-140	14-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5489142							
WG3551932-4 MS		WG3551932-5						
2-Methylnaphthalene			94.1		%		50-140	14-JUN-21
Acenaphthene			95.3		%		50-140	14-JUN-21
Acenaphthylene			88.1		%		50-140	14-JUN-21
Anthracene			93.2		%		50-140	14-JUN-21
Benzo(a)anthracene			103.9		%		50-140	14-JUN-21
Benzo(a)pyrene			98.6		%		50-140	14-JUN-21
Benzo(b&j)fluoranthene			102.8		%		50-140	14-JUN-21
Benzo(g,h,i)perylene			95.9		%		50-140	14-JUN-21
Benzo(k)fluoranthene			97.9		%		50-140	14-JUN-21
Chrysene			101.2		%		50-140	14-JUN-21
Dibenz(a,h)anthracene			96.9		%		50-140	14-JUN-21
Fluoranthene			96.6		%		50-140	14-JUN-21
Fluorene			94.6		%		50-140	14-JUN-21
Indeno(1,2,3-cd)pyrene			92.4		%		50-140	14-JUN-21
Naphthalene			95.3		%		50-140	14-JUN-21
Phenanthrene			97.9		%		50-140	14-JUN-21
Pyrene			95.9		%		50-140	14-JUN-21
Batch	R5489976							
WG3551103-3 DUP		WG3551103-5						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-JUN-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-JUN-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21



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60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT								
	Soil							
Batch	R5489976							
WG3551103-3	DUP	WG3551103-5						
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	14-JUN-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	14-JUN-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-JUN-21
WG3551103-2	LCS							
1-Methylnaphthalene			97.7		%		50-140	14-JUN-21
2-Methylnaphthalene			91.9		%		50-140	14-JUN-21
Acenaphthene			92.4		%		50-140	14-JUN-21
Acenaphthylene			85.3		%		50-140	14-JUN-21
Anthracene			85.6		%		50-140	14-JUN-21
Benzo(a)anthracene			92.2		%		50-140	14-JUN-21
Benzo(a)pyrene			87.2		%		50-140	14-JUN-21
Benzo(b&j)fluoranthene			95.2		%		50-140	14-JUN-21
Benzo(g,h,i)perylene			88.9		%		50-140	14-JUN-21
Benzo(k)fluoranthene			84.1		%		50-140	14-JUN-21
Chrysene			91.4		%		50-140	14-JUN-21
Dibenz(a,h)anthracene			89.3		%		50-140	14-JUN-21
Fluoranthene			87.2		%		50-140	14-JUN-21
Fluorene			89.1		%		50-140	14-JUN-21
Indeno(1,2,3-cd)pyrene			82.6		%		50-140	14-JUN-21
Naphthalene			91.7		%		50-140	14-JUN-21
Phenanthrene			92.7		%		50-140	14-JUN-21
Pyrene			86.7		%		50-140	14-JUN-21
WG3551103-1	MB							
1-Methylnaphthalene			<0.030		ug/g		0.03	14-JUN-21
2-Methylnaphthalene			<0.030		ug/g		0.03	14-JUN-21
Acenaphthene			<0.050		ug/g		0.05	14-JUN-21
Acenaphthylene			<0.050		ug/g		0.05	14-JUN-21
Anthracene			<0.050		ug/g		0.05	14-JUN-21
Benzo(a)anthracene			<0.050		ug/g		0.05	14-JUN-21
Benzo(a)pyrene			<0.050		ug/g		0.05	14-JUN-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	14-JUN-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	14-JUN-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	14-JUN-21



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60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT		Soil						
Batch	R5486256							
WG3553045-1	LCS							
pH			6.95		pH units		6.9-7.1	11-JUN-21
Batch	R5488100							
WG3552233-1	DUP	L2596408-3						
pH		7.50	7.41	J	pH units	0.09	0.3	12-JUN-21
WG3553731-1	LCS							
pH			6.98		pH units		6.9-7.1	12-JUN-21
VOC-511-HS-WT		Soil						
Batch	R5480452							
WG3547843-4	DUP	WG3547843-3						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-JUN-21
Benzene		0.165	0.162		ug/g	1.4	40	08-JUN-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	08-JUN-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5480452							
WG3547843-4	DUP	WG3547843-3						
Ethylbenzene		0.234	0.228		ug/g	2.3	40	08-JUN-21
n-Hexane		0.544	0.529		ug/g	2.8	40	08-JUN-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
m+p-Xylenes		1.53	1.50		ug/g	2.5	40	08-JUN-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-JUN-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	08-JUN-21
o-Xylene		0.910	0.888		ug/g	2.5	40	08-JUN-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Toluene		1.37	1.34		ug/g	2.1	40	08-JUN-21
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	08-JUN-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	08-JUN-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	08-JUN-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	08-JUN-21
WG3547843-2	LCS							
1,1,1,2-Tetrachloroethane			100.0		%		60-130	08-JUN-21
1,1,1,2,2-Tetrachloroethane			100.8		%		60-130	08-JUN-21
1,1,1-Trichloroethane			107.3		%		60-130	08-JUN-21
1,1,2-Trichloroethane			100.9		%		60-130	08-JUN-21
1,1-Dichloroethane			110.0		%		60-130	08-JUN-21
1,1-Dichloroethylene			105.1		%		60-130	08-JUN-21
1,2-Dibromoethane			101.6		%		70-130	08-JUN-21
1,2-Dichlorobenzene			107.1		%		70-130	08-JUN-21
1,2-Dichloroethane			111.0		%		60-130	08-JUN-21
1,2-Dichloropropane			105.5		%		70-130	08-JUN-21
1,3-Dichlorobenzene			109.8		%		70-130	08-JUN-21
1,4-Dichlorobenzene			109.8		%		70-130	08-JUN-21
Acetone			129.6		%		60-140	08-JUN-21
Benzene			105.6		%		70-130	08-JUN-21
Bromodichloromethane			119.9		%		50-140	08-JUN-21
Bromoform			110.0		%		70-130	08-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT		Soil						
Batch	R5480452							
WG3547843-2	LCS							
Bromomethane			90.9		%		50-140	08-JUN-21
Carbon tetrachloride			111.0		%		70-130	08-JUN-21
Chlorobenzene			108.2		%		70-130	08-JUN-21
Chloroform			112.5		%		70-130	08-JUN-21
cis-1,2-Dichloroethylene			106.2		%		70-130	08-JUN-21
cis-1,3-Dichloropropene			117.6		%		70-130	08-JUN-21
Dibromochloromethane			97.1		%		60-130	08-JUN-21
Dichlorodifluoromethane			53.6		%		50-140	08-JUN-21
Ethylbenzene			109.9		%		70-130	08-JUN-21
n-Hexane			97.6		%		70-130	08-JUN-21
Methylene Chloride			123.7		%		70-130	08-JUN-21
MTBE			107.8		%		70-130	08-JUN-21
m+p-Xylenes			115.1		%		70-130	08-JUN-21
Methyl Ethyl Ketone			112.1		%		60-140	08-JUN-21
Methyl Isobutyl Ketone			110.0		%		60-140	08-JUN-21
o-Xylene			116.8		%		70-130	08-JUN-21
Styrene			105.3		%		70-130	08-JUN-21
Tetrachloroethylene			103.8		%		60-130	08-JUN-21
Toluene			110.3		%		70-130	08-JUN-21
trans-1,2-Dichloroethylene			126.5		%		60-130	08-JUN-21
trans-1,3-Dichloropropene			130.6	MES	%		70-130	08-JUN-21
Trichloroethylene			104.0		%		60-130	08-JUN-21
Trichlorofluoromethane			97.7		%		50-140	08-JUN-21
Vinyl chloride			86.4		%		60-140	08-JUN-21
WG3547843-1	MB							
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	08-JUN-21
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	08-JUN-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	08-JUN-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	08-JUN-21
1,1-Dichloroethane			<0.050		ug/g		0.05	08-JUN-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	08-JUN-21
1,2-Dibromoethane			<0.050		ug/g		0.05	08-JUN-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	08-JUN-21
1,2-Dichloroethane			<0.050		ug/g		0.05	08-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5480452							
WG3547843-1 MB								
1,2-Dichloropropane			<0.050		ug/g		0.05	08-JUN-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	08-JUN-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	08-JUN-21
Acetone			<0.50		ug/g		0.5	08-JUN-21
Benzene			<0.0068		ug/g		0.0068	08-JUN-21
Bromodichloromethane			<0.050		ug/g		0.05	08-JUN-21
Bromoform			<0.050		ug/g		0.05	08-JUN-21
Bromomethane			<0.050		ug/g		0.05	08-JUN-21
Carbon tetrachloride			<0.050		ug/g		0.05	08-JUN-21
Chlorobenzene			<0.050		ug/g		0.05	08-JUN-21
Chloroform			<0.050		ug/g		0.05	08-JUN-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-JUN-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	08-JUN-21
Dibromochloromethane			<0.050		ug/g		0.05	08-JUN-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	08-JUN-21
Ethylbenzene			<0.018		ug/g		0.018	08-JUN-21
n-Hexane			<0.050		ug/g		0.05	08-JUN-21
Methylene Chloride			<0.050		ug/g		0.05	08-JUN-21
MTBE			<0.050		ug/g		0.05	08-JUN-21
m+p-Xylenes			<0.030		ug/g		0.03	08-JUN-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	08-JUN-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	08-JUN-21
o-Xylene			<0.020		ug/g		0.02	08-JUN-21
Styrene			<0.050		ug/g		0.05	08-JUN-21
Tetrachloroethylene			<0.050		ug/g		0.05	08-JUN-21
Toluene			<0.080		ug/g		0.08	08-JUN-21
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	08-JUN-21
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	08-JUN-21
Trichloroethylene			<0.010		ug/g		0.01	08-JUN-21
Trichlorofluoromethane			<0.050		ug/g		0.05	08-JUN-21
Vinyl chloride			<0.020		ug/g		0.02	08-JUN-21
Surrogate: 1,4-Difluorobenzene			107.9		%		50-140	08-JUN-21
Surrogate: 4-Bromofluorobenzene			97.9		%		50-140	08-JUN-21

WG3547843-5 MS

WG3547843-3



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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5480452							
WG3547843-5 MS		WG3547843-3						
1,1,1,2-Tetrachloroethane			111.9		%		50-140	09-JUN-21
1,1,2,2-Tetrachloroethane			117.3		%		50-140	09-JUN-21
1,1,1-Trichloroethane			109.2		%		50-140	09-JUN-21
1,1,2-Trichloroethane			116.9		%		50-140	09-JUN-21
1,1-Dichloroethane			106.8		%		50-140	09-JUN-21
1,1-Dichloroethylene			106.1		%		50-140	09-JUN-21
1,2-Dibromoethane			114.5		%		50-140	09-JUN-21
1,2-Dichlorobenzene			109.1		%		50-140	09-JUN-21
1,2-Dichloroethane			115.0		%		50-140	09-JUN-21
1,2-Dichloropropane			109.7		%		50-140	09-JUN-21
1,3-Dichlorobenzene			103.8		%		50-140	09-JUN-21
1,4-Dichlorobenzene			102.5		%		50-140	09-JUN-21
Acetone			139.7		%		50-140	09-JUN-21
Benzene			103.9		%		50-140	09-JUN-21
Bromodichloromethane			122.6		%		50-140	09-JUN-21
Bromoform			125.1		%		50-140	09-JUN-21
Bromomethane			106.9		%		50-140	09-JUN-21
Carbon tetrachloride			116.5		%		50-140	09-JUN-21
Chlorobenzene			104.3		%		50-140	09-JUN-21
Chloroform			122.9		%		50-140	09-JUN-21
cis-1,2-Dichloroethylene			111.6		%		50-140	09-JUN-21
cis-1,3-Dichloropropene			107.5		%		50-140	09-JUN-21
Dibromochloromethane			108.9		%		50-140	09-JUN-21
Dichlorodifluoromethane			108.6		%		50-140	09-JUN-21
Ethylbenzene			104.3		%		50-140	09-JUN-21
n-Hexane			88.8		%		50-140	09-JUN-21
Methylene Chloride			111.5		%		50-140	09-JUN-21
MTBE			107.0		%		50-140	09-JUN-21
m+p-Xylenes			98.9		%		50-140	09-JUN-21
Methyl Ethyl Ketone			108.8		%		50-140	09-JUN-21
Methyl Isobutyl Ketone			123.7		%		50-140	09-JUN-21
o-Xylene			111.4		%		50-140	09-JUN-21
Styrene			109.9		%		50-140	09-JUN-21



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Client: RUBICON ENVIRONMENTAL INC.
 60 Toronto St
 FLESHERTON ON N0C 1E0

Contact: PAUL REW

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT								
	Soil							
Batch	R5480452							
WG3547843-5 MS		WG3547843-3						
Tetrachloroethylene			100.2		%		50-140	09-JUN-21
Toluene			94.8		%		50-140	09-JUN-21
trans-1,2-Dichloroethylene			102.0		%		50-140	09-JUN-21
trans-1,3-Dichloropropene			115.0		%		50-140	09-JUN-21
Trichloroethylene			106.3		%		50-140	09-JUN-21
Trichlorofluoromethane			114.7		%		50-140	09-JUN-21
Vinyl chloride			109.9		%		50-140	09-JUN-21

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Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
FLESHERTON ON N0C 1E0
Contact: PAUL REW

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

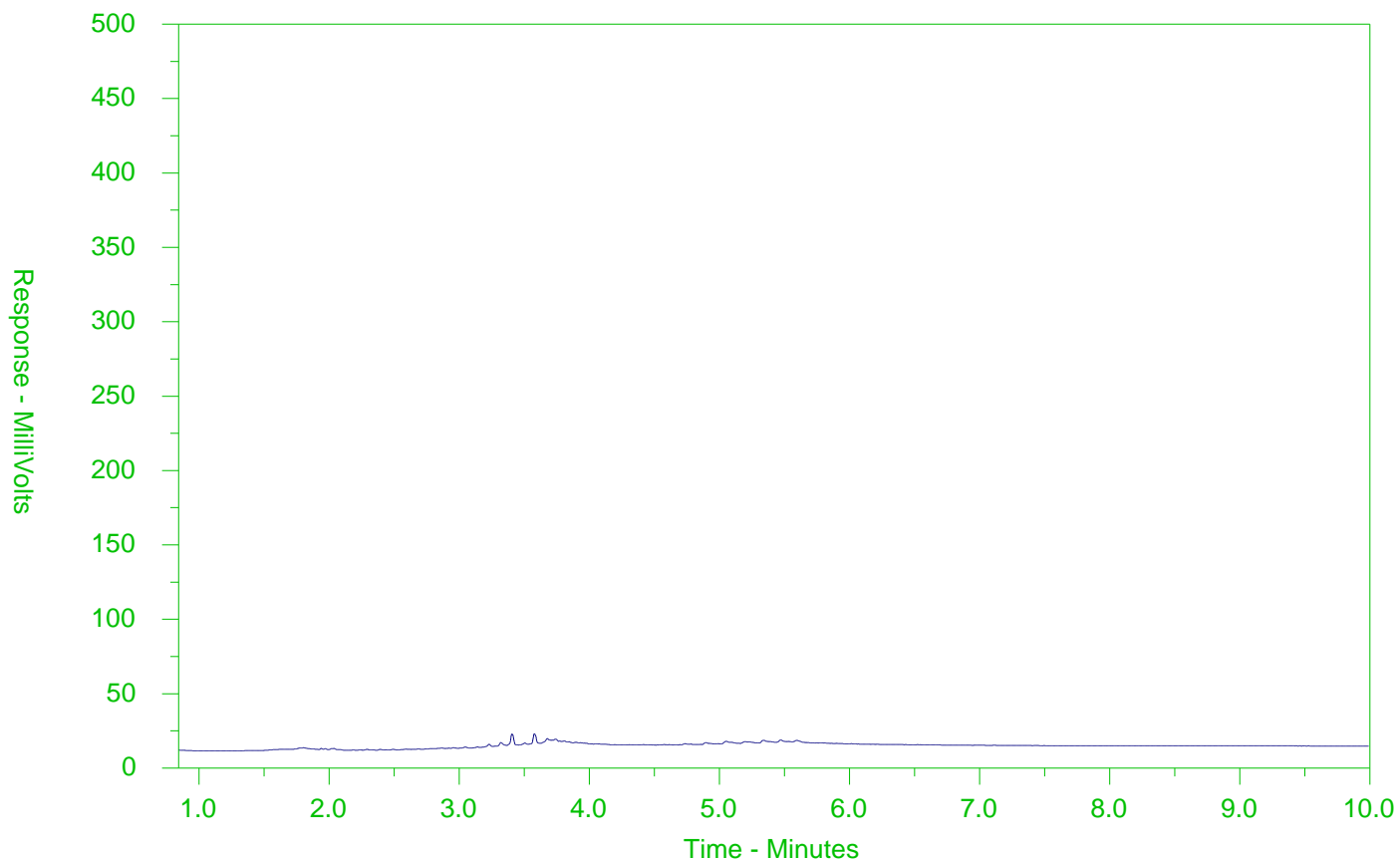
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-1
 Client Sample ID: SS01



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

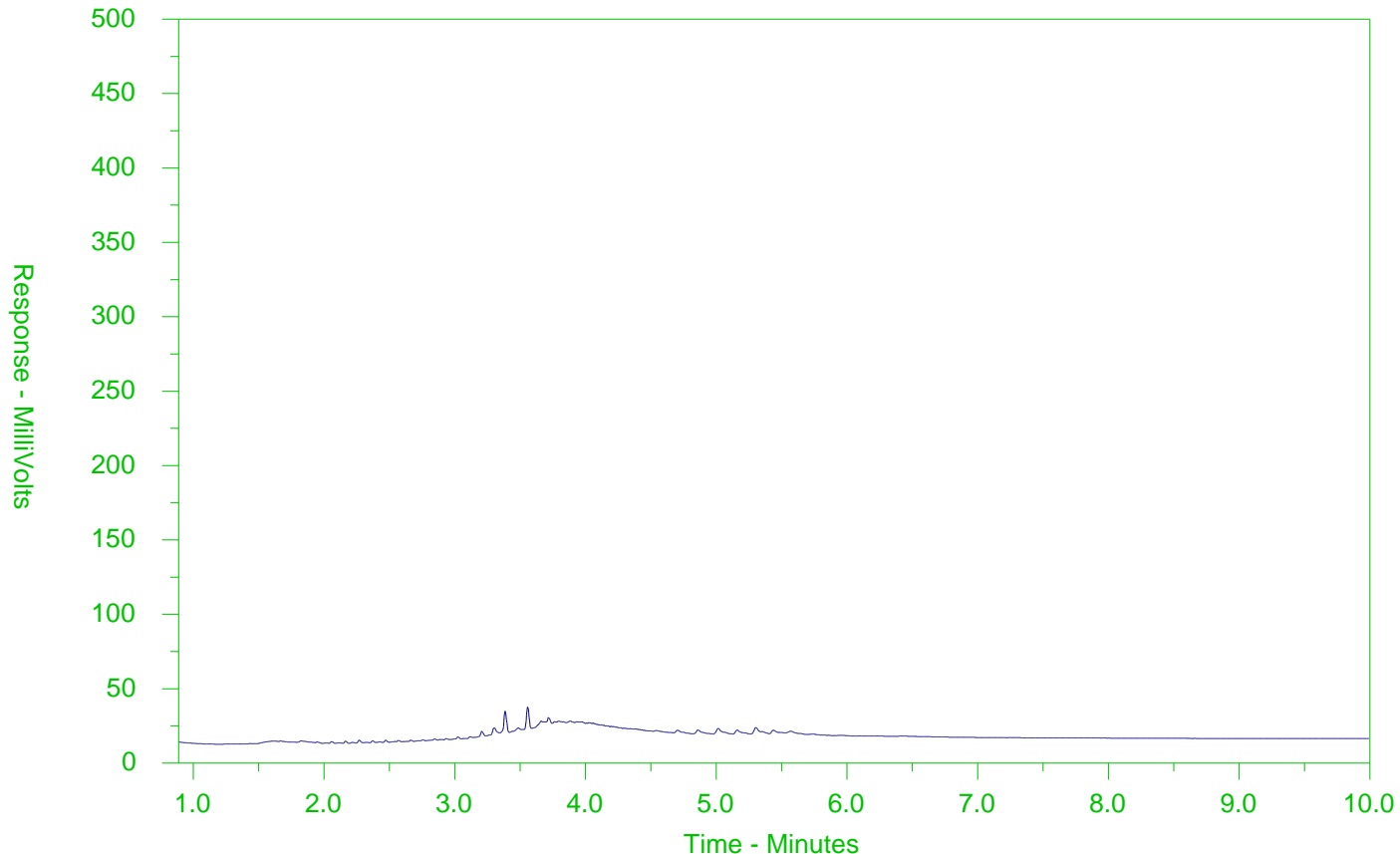
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-2
 Client Sample ID: SS02



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

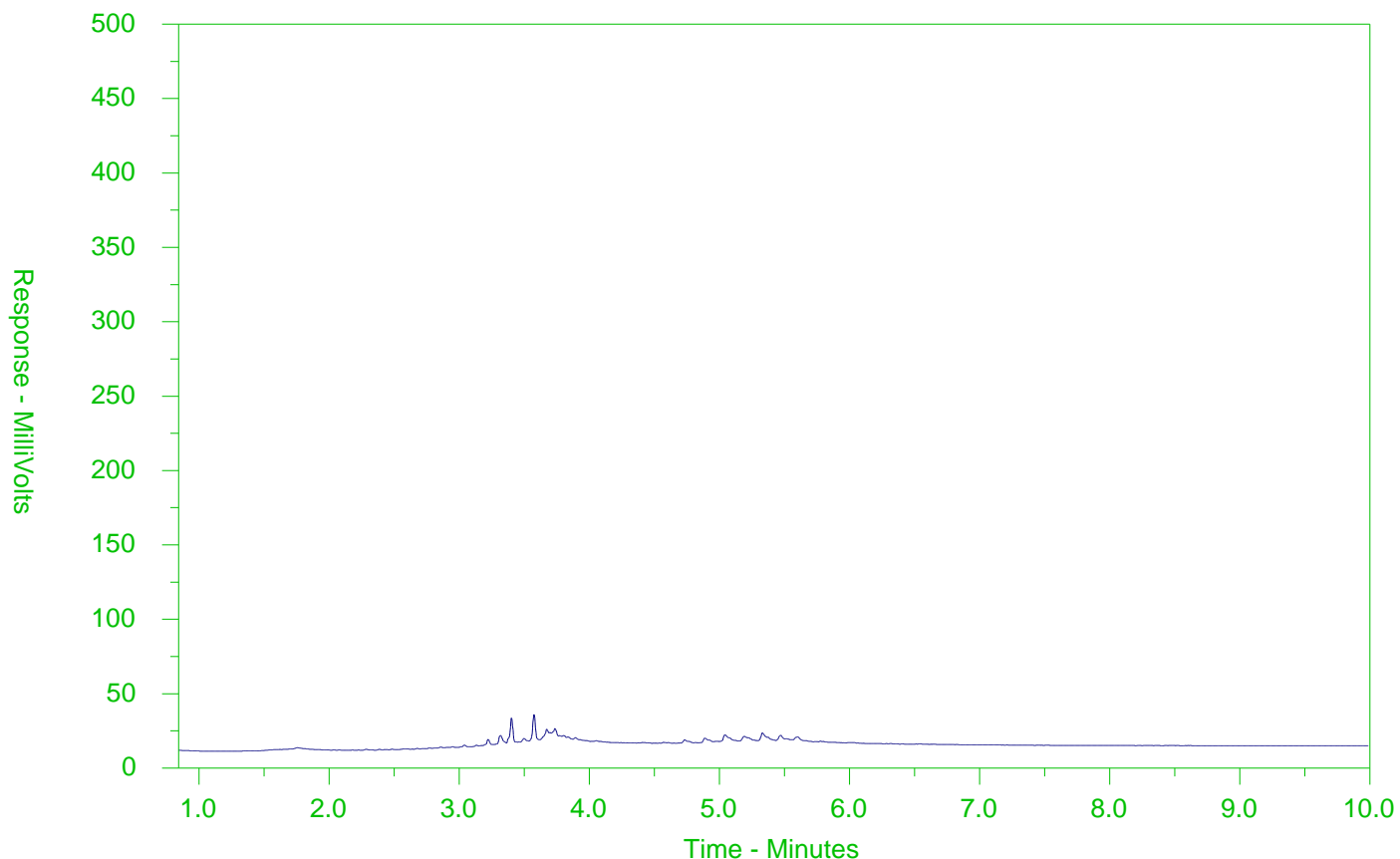
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-3
 Client Sample ID: SS03



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

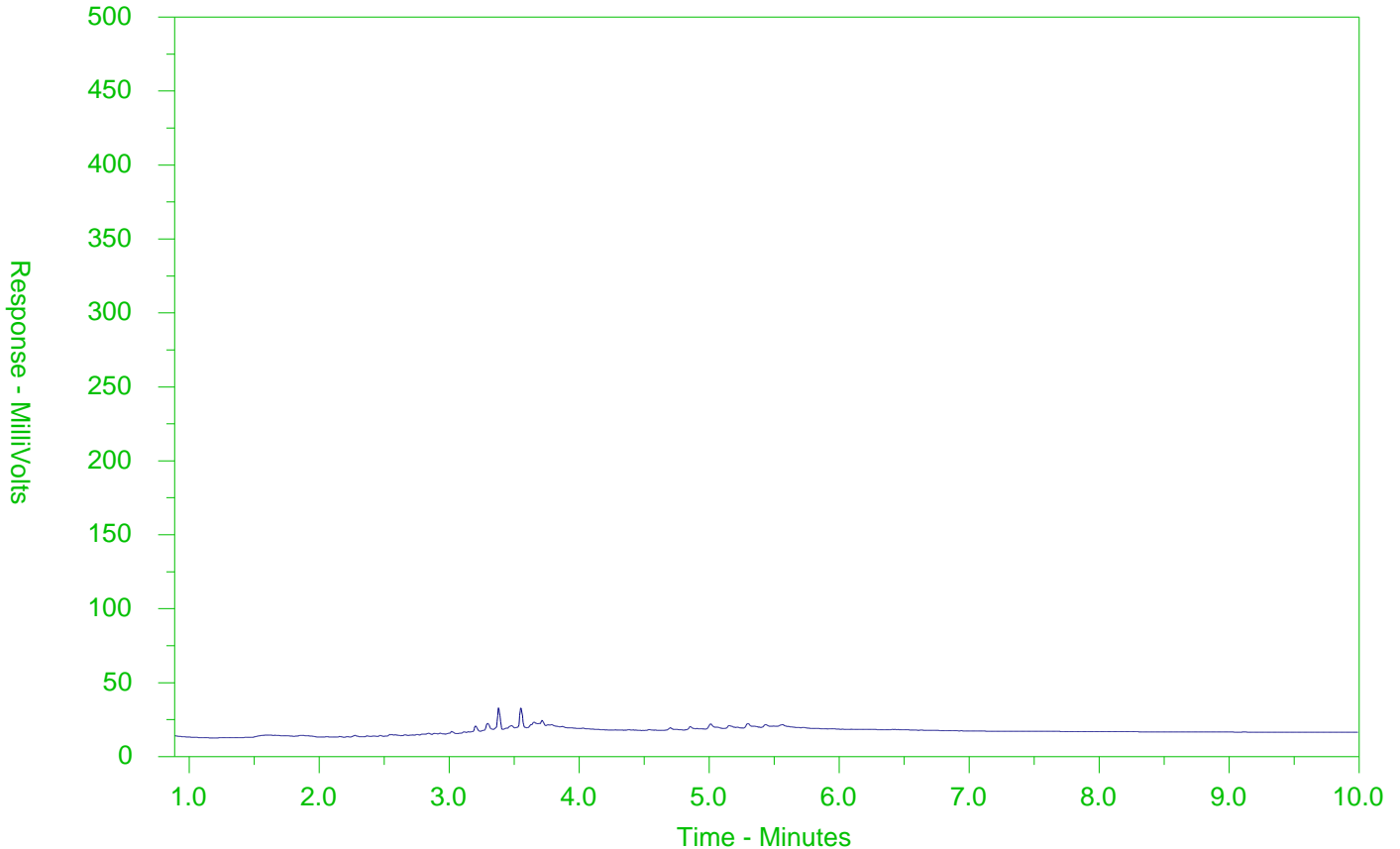
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-4
 Client Sample ID: SS04



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

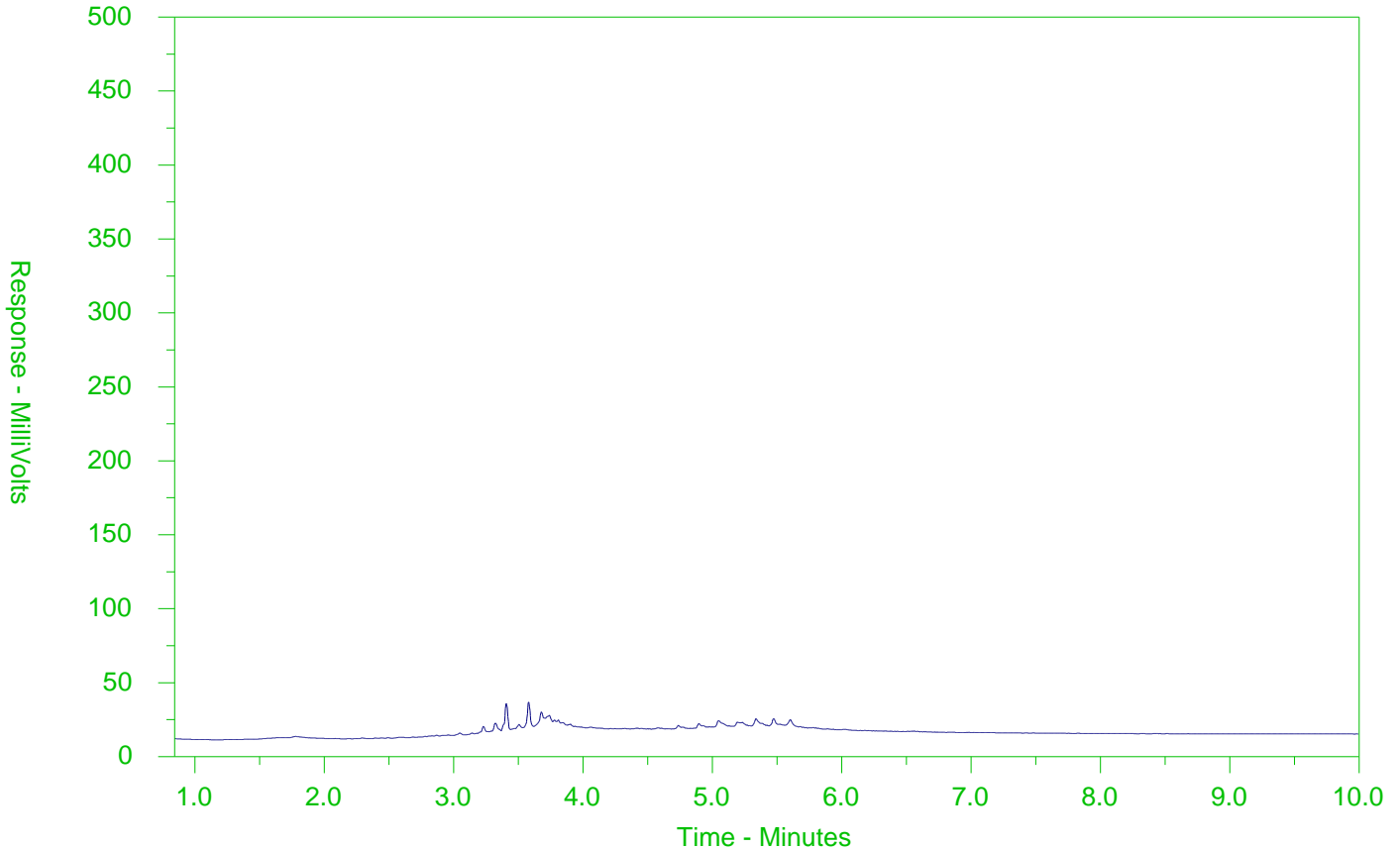
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-5
 Client Sample ID: SS05



← F2 →		← F3 →		← F4 →	
nC10	nC16		nC34		nC50
174°C	287°C		481°C		575°C
346°F	549°F		898°F		1067°F
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

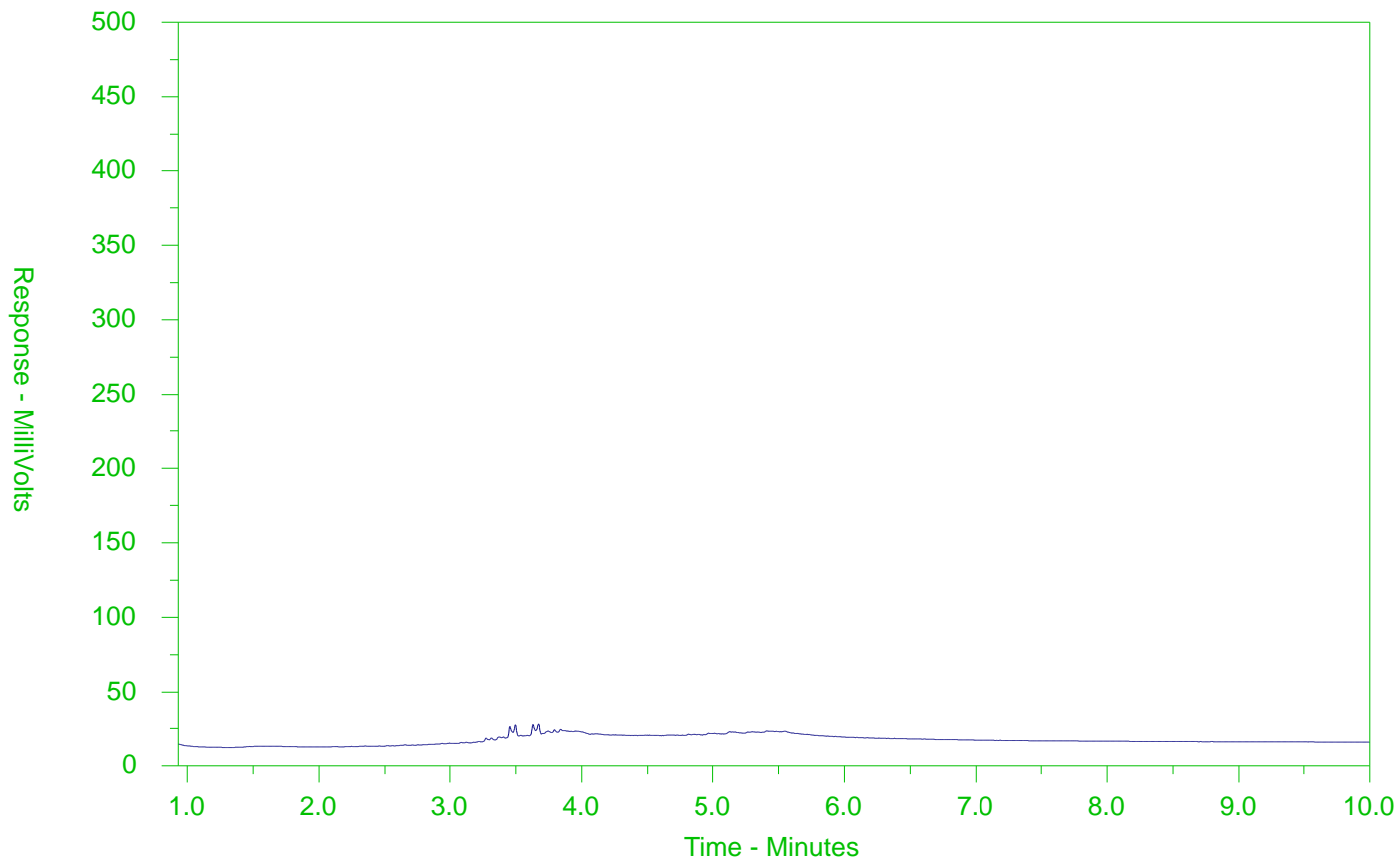
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2596408-6
 Client Sample ID: SS06



← F2 →		← F3 →		← F4 →	
nC10	nC16	nC34	nC50		
174°C	287°C	481°C	575°C		
346°F	549°F	898°F	1067°F		
Gasoline →			← Motor Oils/Lube Oils/Grease		
← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

