St. Lawrence Testing & Inspection Co. Ltd.

P.O. Box 997, Cornwall, ON, Canada K6H 5V1
814 Second Street W., Phone (613) 938-2521
E-mail: gib@stlawrencetesting.com Fax (613) 938-7395

June 9, 2025

Mr. Greg Davis
Environmental Compliance Officer, Badge 725
Ottawa District Office, Eastern Region
Ministry of Environment, Conservation and Parks
2430 Don Reid Drive, Unit 103
Ottawa, ON
K1H 1E1

RE: Town of Smiths Falls Compost Site

Dear Mr. Davis:

Please find attached the 3 environmental reports done for the Town of Smiths Falls Compost Site. These were Report 24C049, Report 24C265 and Report 25C050.

Report 24C049 consisted of excavating test pits and sampling the soil from the test pits.

Report 24C265 consisted of excavating test pits and sampling the soil from the test pits.

Report 25C050 consisted of sampling the ground water at the surface of the creek.

The field work for the above noted work was done by the undersigned geotechnical and environmental engineer.

As a result of the test data from the sampling, following were the locations of the soil exceedances.

Location TP1-1
Location TP1-2 and TP2-3
Location TP1-3 and TP2-5
Location TP2-4
Location TP1-4 and TP2-6
Location TP2-7

We have attached the map showing the locations of the sampling respective of the 3 reports.

We are proposing to put down boreholes and wells at all the above locations plus an additional location where the number 5 is written on Location TP1-5 for a total of 7 wells.

The map showing the locations of the proposed boreholes and wells is attached to this letter. (see page 5 of 80)

Our proposal is for the undersigned geotechnical and environmental engineer to go to the site as soon as approval is given by the local MOECP official and after the locates have been received. We plan on sampling soil from the surface to 12 ft (3.66 m) and extending the wells to 15 ft (4.57 m). If there is bedrock refusal before 15 ft (4.57 m), we will have the base of the well at the refusal depth. We expect the top of the screens at all wells to be at 3 ft (0.91 m) below the ground surface. The wells will all be installed with an above ground protector. The soil and ground water samples will be sent to Bureau Veritas in Mississauga, Ontario.

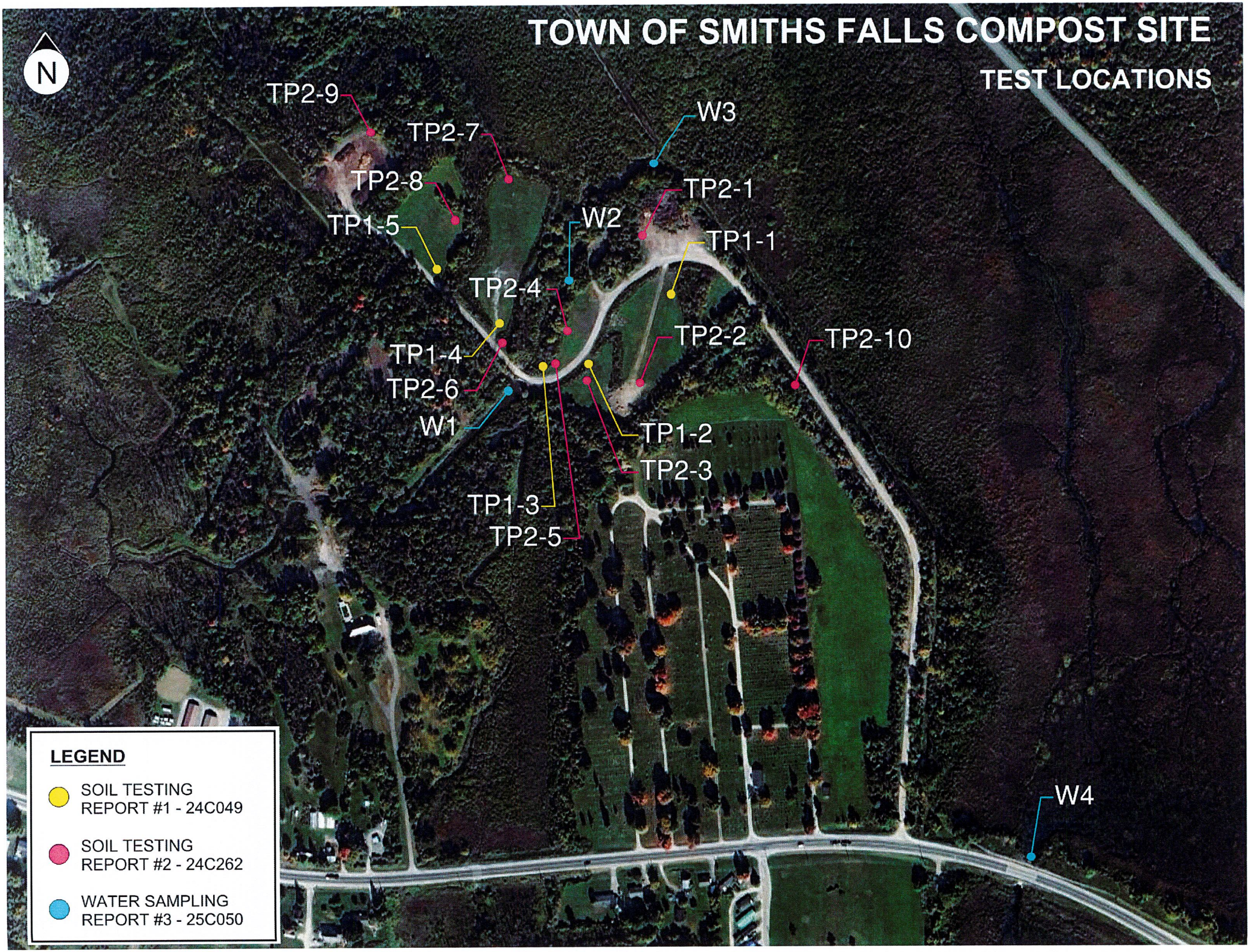
The soil samples will be tested for benzene, toluene, ethylbenzene, xylenes and F1 to F4 petroleum hydrocarbons referred as PHC's, metals and inorganic analysis.

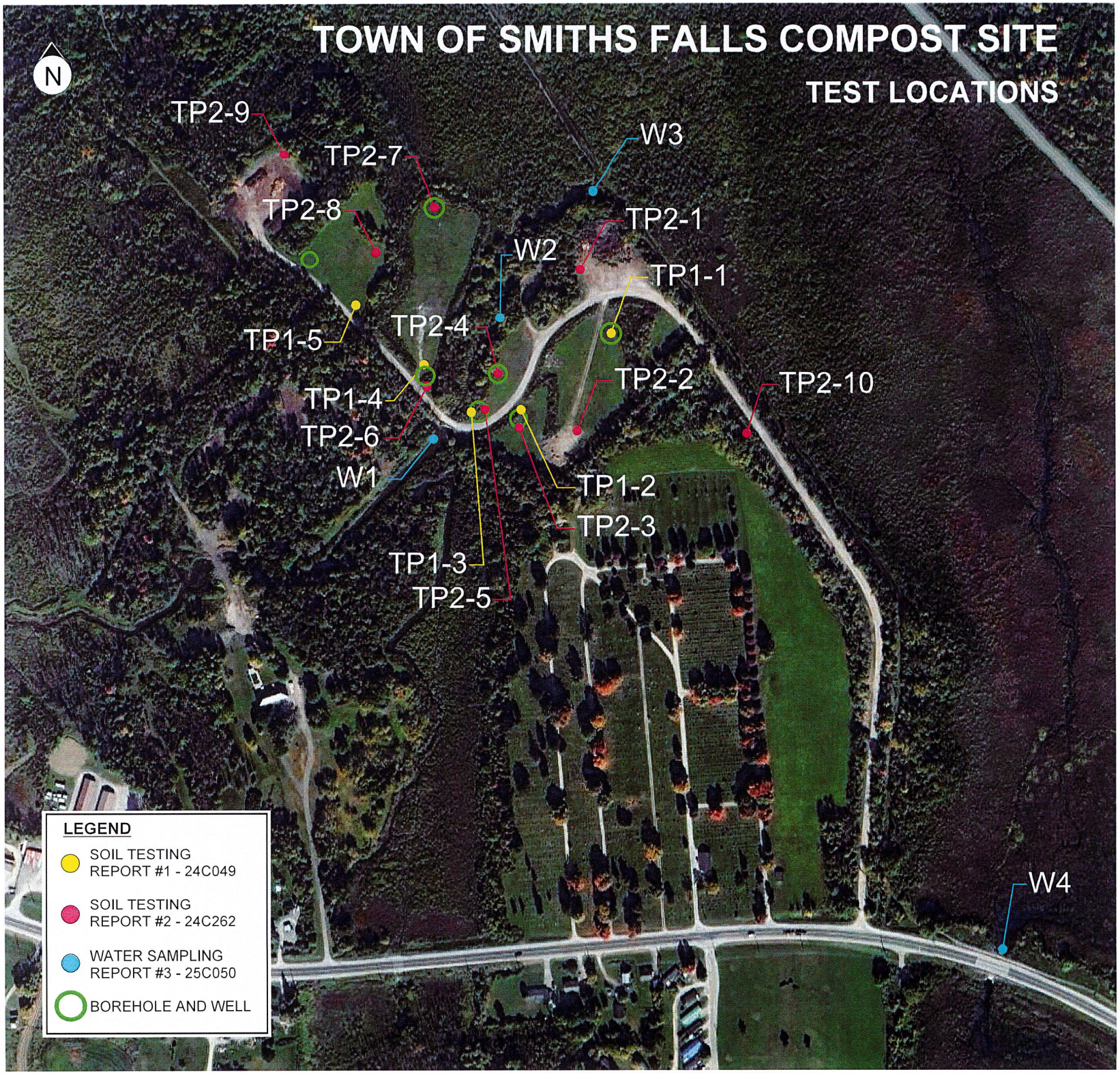
The water samples will be tested for benzene, toluene, ethylbenzene, xylenes and F1 to F4 petroleum hydrocarbons referred as PHC's, dissolved metals, chromium V1, mercury and polycyclic aromatic hydrocarbon (PAH) analysis.

The report will be written within a few days of receiving all the soil and ground water test data.

Respectfully submitted
ST. LAWRENCE TESTING & INSPECTION CO. LTD.

G.G. McIntee, P. Eng.
GGM:mm
Attachments


TOWN OF SMITHS FALLS COMPOST SITE
TEST LOCATIONS
N
TP2-9
TP2-7
TP2-8
TP1-5
W3
TP2-1
W2
TP1-1
TP2-4
TP2-2
TP2-10
TP1-4
TP2-6
W1
TP1-2
TP2-3
TP1-3
TP2-5
W4
LEGEND
SOIL TESTING
REPORT #1 - 24C049
SOIL TESTING
REPORT #2 - 24C262
WATER SAMPLING
REPORT #3 - 25C050


TOWN OF SMITHS FALLS COMPOST SITE
TEST LOCATIONS
N
TP2-9
TP2-7
TP2-8
W3
TP2-1
W2
TP1-1
TP1-5
TP2-4
TP1-4
TP2-2
TP2-10
TP2-6
W1
TP1-2
TP2-3
TP1-3
TP2-5
W4
LEGEND
SOIL TESTING REPORT #1 - 24C049
SOIL TESTING REPORT #2 - 24C262
WATER SAMPLING REPORT #3 - 25C050
BOREHOLE AND WELL

St. Lawrence Testing & Inspection Co. Ltd.
P.O. Box 997, Cornwall, ON, Canada K6H 5V1
814 Second Street W., Phone (613) 938-2521
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March 19, 2023

Ms. Vanessa Bernicky
Engineering and Environmental Coordinator
Town of Smiths Falls
77 Beckwith Street North
PO Box 695
Smiths Falls, ON
K7A 2B8

RE: Proposed Snow Dump Site, Smiths Falls, ON
Environmental Soil Assessment
Report No. 24C049

Dear Ms. Bernicky:

On March 7, 2024, the undersigned geotechnical and environmental engineer met with you at the snow dump site to obtain soil samples.

Test Pit #1 was at the North East corner of Snow Dump #1. The test pit was 2 to 10 inches (50 to 250 mm) from the surface and consisted of topsoil and a brown, moist silty sand and gravel

Test Pit #2 was at the North side of Snow Dump #2 and was 30 m North East of the creek. The test pit was 2 to 12 inches (50 to 300 mm) from the surface and consisted of topsoil and a brown, moist silty sand and gravel.

Test Pit #3 was next to the road and 15 m North of the creek. The test pit was 2 to 12 inches (50 to 300 mm) from the surface and consisted of topsoil and a brown, moist, silty sand and gravel.

Test Pit #4 was in Snow Dump #3 and was 30 m West of the creek. The sample was taken North of the road in the South East area of the open area. The test pit was 2 to 12 inches (50 to 300 mm) from the surface and consisted of topsoil and a brown, moist silty sand and gravel.

Test Pit #5 was in Snow Dump #4 and was 100 m West of the creek in the South East area and was just North of the road. The test pit was 2 to 12 inches (50 to 300 mm) and was all topsoil.

On March 7, 2024, the 5 soil samples collected from the proposed snow dump located in a current compost dump site in Smiths Falls, Ontario were delivered to the St. Lawrence Testing laboratory. The samples were to be tested for soil contamination.

The samples were composed of the soil excavated from 5 individual test pits (TP 1 to P 5) and identified as S1, S2, S3, S4 and S5, respectively. A diagram of the test pit location is attached to this report.

The soil samples were processed for benzene, toluene, ethylbenzene, xylenes and F_1 to F_4 petroleum hydrocarbons (collectively referred to as PHCs) along with metals and inorganics analyses.
All samples were packaged on ice within a hard sided insulated cooler and submitted to Bureau Veritas in Mississauga, Ontario under a regular turnaround time for the results.

We received and reviewed the test results on March 19, 2024. As the soil was coarse in texture and originated from a commercial property with shallow soil

and non- potable groundwater, the results were compared with Ontario Regulation 153/04, Table 7 soil standards for a commercial property with coarse, shallow soil and non-potable groundwater (Table 7).

Upon review of these results, all 5 soil samples satisfied the Table 7 standards for PHCs.

The metals analysis of the soil determined that sample S1 contained a cadmium concentration of 2.3 µg/g, 290 µg/g for lead and 500 µg/g for zinc. Sample S2 was found to contain a lead concentration of 230 µg/g. Sample S3 contained a lead concentration of 330 µg/g and sample S4 contained a lead concentration of 210 µg/g. The Table 3 standards for cadmium is 1.9 µg/g, 120 µg/g for lead and 340 µg/g for zinc.

All other metal concentrations in S1, S2, S3 and S4 along with all those in S5 met the Table 7 standards.

The inorganic analyses determined the pH, conductivity and sodium absorption ratio (SAR) for each soil sample. These are listed below.

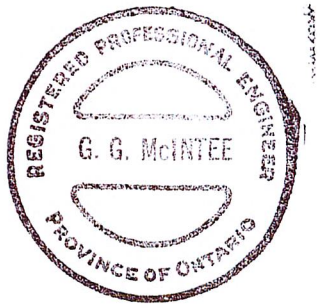
Sample ID	Location	pH	Conductivity	SAR
S1	TP 1	7.24	0.17 mS/cm	0.39
S2	TP 2	7.55	0.12 mS/cm	0.30
S3	TP 3	7.42	0.15 mS/cm	0.27
S4	TP 4	7.70	0.12 mS/cm	0.30
S5	TP 5	7.03	0.044 mS/cm	0.41

The Table 7 standard for conductivity in soil is 1.4 mS/cm and a value of 12 for SAR.

A copy of the test results for the individual soil samples analysis is attached to this report.

It is the opinion of St. Lawrence Testing that the attached soil results may be used as a baseline for further soil analyses once the snow dump project commences.

Respectfully submitted,
ST. LAWRENCE TESTING & INSPECTION CO. LTD.



G.G. McIntee, P. Eng.
GGM:sr

attachments

SMITHS FALLS COMPOST SITE

~~Smith Falls~~
3514 Hwy 43, Smiths Falls ON

~~20.466 Acres, Smith Road~~
~~Rarden, Ohio~~

10,598 views
Published on September 29, 2023
SHARE

Area Features

- ~~Smith Falls----------~~
- ~~Grouse Creek----~~
- ~~Smith 95-----~~

GPS Coordinates

TP # 1 44 degrees 54mins 45.8748 seconds N
76 degrees 2 mins 24.9684 seconds W

TP # 2 44 degrees 54 mins 44.9100 seconds N
76 degrees 2 mins 29.3244 seconds W

TP # 3 44 degrees 54 mins 44.5752 seconds N
76 degrees 2 mins 41.0604 seconds W

TP # 4 44 degrees 54 mins 47.8188 seconds N
76 degrees 2 mins 37.0438 seconds W

TP #5 44 degrees 54 mins 47.4912 seconds N
76 degrees 2 mins 41.0604 seconds W

Made with Google My Maps

Your Project #: SNOW DUMP
Site Location: SMITHS FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2024/03/19
Report #: R8071849
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C474079
Received: 2024/03/12, 09:32

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Hot Water Extractable Boron	5	2024/03/15	2024/03/18	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	5	2024/03/15	2024/03/18	CAM SOP-00457	OMOE E3015 m
Conductivity	5	2024/03/15	2024/03/15	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	5	2024/03/18	2024/03/18	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	5	N/A	2024/03/13	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2024/03/13	2024/03/14	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	3	2024/03/15	2024/03/15	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	5	2024/03/15	2024/03/15	CAM SOP-00447	EPA 6020B m
Moisture	5	N/A	2024/03/13	CAM SOP-00445	Carter 2nd ed 70.2 m
pH CaCl2 EXTRACT	5	2024/03/15	2024/03/15	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	5	N/A	2024/03/15	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Your Project #: SNOW DUMP
Site Location: SMITHS FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2024/03/19
Report #: R8071849
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C474079
Received: 2024/03/12, 09:32

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

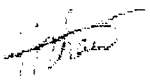
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Soils are reported on a dry weight basis unless otherwise specified.

(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



Grace (Hongmei) Zhao
Project Manager
19 Mar 2024 11:52:56

Please direct all questions regarding this Certificate of Analysis to:
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID			YPL079	YPL080	YPL081		YPL082		
Sampling Date			2024/03/07 13:45	2024/03/07 14:00	2024/03/07 14:15		2024/03/07 14:30		
COC Number			N/A	N/A	N/A		N/A		
	UNITS	**Criteria**	**S1**	**S2**	**S3**	**QC Batch**	**S4**	**RDL**	**QC Batch**
Calculated Parameters									
Sodium Adsorption Ratio	N/A	**12**	0.39	0.30 (1)	0.27 (1)	9269928	0.30 (1)		9269928
Inorganics									
Conductivity	mS/cm	**1.4**	0.17	0.12	0.15	9277064	0.12	0.002	9277064
Available (CaCl2) pH	pH	-	7.24	7.55	7.42	9276915	7.70		9276915
WAD Cyanide (Free)	ug/g	**0.051**	ND	ND	ND	9278656	ND	0.01	9278656
Chromium (VI)	ug/g	**8**	ND	ND	ND	9280124	ND	0.18	9280124
Metals									
Hot Water Ext. Boron (B)	ug/g	**2**	0.19	0.10	0.18	9276973	0.058	0.050	9276973
Acid Extractable Antimony (Sb)	ug/g	**40**	0.94	0.67	0.82	9276900	8.6	0.20	9276911
Acid Extractable Arsenic (As)	ug/g	**18**	3.5	2.5	3.6	9276900	4.1	1.0	9276911
Acid Extractable Barium (Ba)	ug/g	**670**	290	110	130	9276900	59	0.50	9276911
Acid Extractable Beryllium (Be)	ug/g	**8**	ND	0.23	0.33	9276900	ND	0.20	9276911
Acid Extractable Boron (B)	ug/g	**120**	ND	ND	ND	9276900	ND	5.0	9276911
Acid Extractable Cadmium (Cd)	ug/g	**1.9**	**2.3**	0.40	0.57	9276900	0.14	0.10	9276911
Acid Extractable Chromium (Cr)	ug/g	**160**	110	17	14	9276900	10	1.0	9276911
Acid Extractable Cobalt (Co)	ug/g	**80**	3.8	4.7	4.2	9276900	3.6	0.10	9276911
Acid Extractable Copper (Cu)	ug/g	**230**	150	32	21	9276900	14	0.50	9276911
Acid Extractable Lead (Pb)	ug/g	**120**	**290**	**230**	**330**	9276900	**210**	1.0	9276911
Acid Extractable Molybdenum (Mo)	ug/g	**40**	1.8	1.2	0.82	9276900	1.5	0.50	9276911
Acid Extractable Nickel (Ni)	ug/g	**270**	25	10	8.7	9276900	7.1	0.50	9276911
Acid Extractable Selenium (Se)	ug/g	**5.5**	1.2	ND	ND	9276900	ND	0.50	9276911
Acid Extractable Silver (Ag)	ug/g	**40**	12	ND	ND	9276900	ND	0.20	9276911
Acid Extractable Thallium (Tl)	ug/g	**3.3**	0.17	0.13	0.11	9276900	0.15	0.050	9276911
Acid Extractable Uranium (U)	ug/g	**33**	0.74	0.44	0.40	9276900	0.34	0.050	9276911
Acid Extractable Vanadium (V)	ug/g	**86**	20	21	24	9276900	16	5.0	9276911
Acid Extractable Zinc (Zn)	ug/g	**340**	**500**	120	150	9276900	63	5.0	9276911
Acid Extractable Mercury (Hg)	ug/g	**3.9**	2.0	0.057	0.27	9276900	0.15	0.050	9276911

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Industrial/Commercial/Community - Coarse Textured Soil
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID			YPL082			YPL083			YPL083		
Sampling Date			2024/03/07 14:30			2024/03/07 14:45			2024/03/07 14:45		
COC Number			N/A			N/A			N/A		
	UNITS	**Criteria**	**S4 Lab-Dup**	**RDL**	**QC Batch**	**S5**	**RDL**	**QC Batch**	**S5 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters											
Sodium Adsorption Ratio	N/A	**12**				0.41 (1)		9269928			
Inorganics											
Conductivity	mS/cm	**1.4**	0.12	0.002	9277064	0.044	0.002	9277064			
Available (CaCl2) pH	pH	-				7.03		9276915			
WAD Cyanide (Free)	ug/g	**0.051**				ND	0.01	9278656			
Chromium (VI)	ug/g	**8**				ND	0.18	9280124			
Metals											
Hot Water Ext. Boron (B)	ug/g	**2**				0.11	0.050	9276973	0.091	0.050	9276973
Acid Extractable Antimony (Sb)	ug/g	**40**				0.24	0.20	9276900			
Acid Extractable Arsenic (As)	ug/g	**18**				2.8	1.0	9276900			
Acid Extractable Barium (Ba)	ug/g	**670**				43	0.50	9276900			
Acid Extractable Beryllium (Be)	ug/g	**8**				ND	0.20	9276900			
Acid Extractable Boron (B)	ug/g	**120**				ND	5.0	9276900			
Acid Extractable Cadmium (Cd)	ug/g	**1.9**				0.12	0.10	9276900			
Acid Extractable Chromium (Cr)	ug/g	**160**				5.4	1.0	9276900			
Acid Extractable Cobalt (Co)	ug/g	**80**				2.4	0.10	9276900			
Acid Extractable Copper (Cu)	ug/g	**230**				4.6	0.50	9276900			
Acid Extractable Lead (Pb)	ug/g	**120**				5.4	1.0	9276900			
Acid Extractable Molybdenum (Mo)	ug/g	**40**				ND	0.50	9276900			
Acid Extractable Nickel (Ni)	ug/g	**270**				2.8	0.50	9276900			
Acid Extractable Selenium (Se)	ug/g	**5.5**				ND	0.50	9276900			
Acid Extractable Silver (Ag)	ug/g	**40**				ND	0.20	9276900			
Acid Extractable Thallium (Tl)	ug/g	**3.3**				ND	0.050	9276900			
Acid Extractable Uranium (U)	ug/g	**33**				0.19	0.050	9276900			
Acid Extractable Vanadium (V)	ug/g	**86**				12	5.0	9276900			
Acid Extractable Zinc (Zn)	ug/g	**340**				22	5.0	9276900			
Acid Extractable Mercury (Hg)	ug/g	**3.9**				ND	0.050	9276900			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Industrial/Commercial/Community - Coarse Textured Soil
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			YPL079	YPL080	YPL081	YPL082	YPL083		
Sampling Date			2024/03/07 13:45	2024/03/07 14:00	2024/03/07 14:15	2024/03/07 14:30	2024/03/07 14:45		
COC Number			N/A	N/A	N/A	N/A	N/A		
	UNITS	**Criteria**	**S1**	**S2**	**S3**	**S4**	**S5**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
Benzene	ug/g	**0.32**	ND	ND	ND	ND	ND	0.020	9270911
Toluene	ug/g	**68**	0.034	ND	ND	ND	ND	0.020	9270911
Ethylbenzene	ug/g	**9.5**	ND	ND	ND	ND	ND	0.020	9270911
o-Xylene	ug/g	-	ND	ND	ND	ND	ND	0.020	9270911
p+m-Xylene	ug/g	-	ND	ND	ND	ND	ND	0.040	9270911
Total Xylenes	ug/g	**26**	ND	ND	ND	ND	ND	0.040	9270911
F1 (C6-C10)	ug/g	**55**	ND	ND	ND	ND	ND	10	9270911
F1 (C6-C10) - BTEX	ug/g	**55**	ND	ND	ND	ND	ND	10	9270911
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	**230**	ND	ND	ND	ND	ND	10	9272459
F3 (C16-C34 Hydrocarbons)	ug/g	**1700**	300	120	58	96	ND	50	9272459
F4 (C34-C50 Hydrocarbons)	ug/g	**3300**	240	270	77	390	ND	50	9272459
Reached Baseline at C50	ug/g	-	No	No	Yes	No	Yes		9272459
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	111	109	108	105	110		9270911
4-Bromofluorobenzene	%	-	90	101	103	98	93		9270911
D10-o-Xylene	%	-	92	95	99	99	92		9270911
D4-1,2-Dichloroethane	%	-	114	115	121	120	124		9270911
o-Terphenyl	%	-	92	100	98	100	93		9272459

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Industrial/Commercial/Community - Coarse Textured Soil
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YPL079	YPL080	YPL081	YPL082	YPL083		
Sampling Date		2024/03/07 13:45	2024/03/07 14:00	2024/03/07 14:15	2024/03/07 14:30	2024/03/07 14:45		
COC Number		N/A	N/A	N/A	N/A	N/A		
	UNITS	**S1**	**S2**	**S3**	**S4**	**S5**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	16	9.4	16	10	11	1.0	9271758

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			YPL079	YPL080	YPL082	YPL082		
Sampling Date			2024/03/07 13:45	2024/03/07 14:00	2024/03/07 14:30	2024/03/07 14:30		
COC Number			N/A	N/A	N/A	N/A		
	UNITS	**Criteria**	**S1**	**S2**	**S4**	**S4 Lab-Dup**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons								
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	**3300**	1000	1500	2300	2300	100	9276194

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition
Soil - Industrial/Commercial/Community - Coarse Textured Soil

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Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

TEST SUMMARY

Bureau Veritas ID: YPL079
Sample ID: S1
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur
Free (WAD) Cyanide	TECH	9278656	2024/03/15	2024/03/18	Prgya Panchal
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9280124	2024/03/18	2024/03/18	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9270911	N/A	2024/03/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9272459	2024/03/13	2024/03/14	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	9276194	2024/03/15	2024/03/15	Jignakumari Mistry
Acid Extractable Metals by ICPMS	ICP/MS	9276900	2024/03/15	2024/03/15	Viviana Canzonieri
Moisture	BAL	9271758	N/A	2024/03/13	Joe Thomas
pH CaCl2 EXTRACT	AT	9276915	2024/03/15	2024/03/15	Vidhi Khatri
Sodium Adsorption Ratio (SAR)	CALC/MET	9269928	N/A	2024/03/15	Automated Statchk

Bureau Veritas ID: YPL080
Sample ID: S2
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur
Free (WAD) Cyanide	TECH	9278656	2024/03/15	2024/03/18	Prgya Panchal
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9280124	2024/03/18	2024/03/18	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9270911	N/A	2024/03/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9272459	2024/03/13	2024/03/14	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	9276194	2024/03/15	2024/03/15	Jignakumari Mistry
Acid Extractable Metals by ICPMS	ICP/MS	9276900	2024/03/15	2024/03/15	Viviana Canzonieri
Moisture	BAL	9271758	N/A	2024/03/13	Joe Thomas
pH CaCl2 EXTRACT	AT	9276915	2024/03/15	2024/03/15	Vidhi Khatri
Sodium Adsorption Ratio (SAR)	CALC/MET	9269928	N/A	2024/03/15	Automated Statchk

Bureau Veritas ID: YPL081
Sample ID: S3
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur
Free (WAD) Cyanide	TECH	9278656	2024/03/15	2024/03/18	Prgya Panchal
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9280124	2024/03/18	2024/03/18	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9270911	N/A	2024/03/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9272459	2024/03/13	2024/03/14	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9276900	2024/03/15	2024/03/15	Viviana Canzonieri
Moisture	BAL	9271758	N/A	2024/03/13	Joe Thomas
pH CaCl2 EXTRACT	AT	9276915	2024/03/15	2024/03/15	Vidhi Khatri
Sodium Adsorption Ratio (SAR)	CALC/MET	9269928	N/A	2024/03/15	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: YPL082
Sample ID: S4
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur
Free (WAD) Cyanide	TECH	9278656	2024/03/15	2024/03/18	Prgya Panchal
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9280124	2024/03/18	2024/03/18	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9270911	N/A	2024/03/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9272459	2024/03/13	2024/03/14	Suleeqa Nurr
F4G (CCME Hydrocarbons Gravimetric)	BAL	9276194	2024/03/15	2024/03/15	Jignakumari Mistry
Acid Extractable Metals by ICPMS	ICP/MS	9276911	2024/03/15	2024/03/15	Daniel Teclu
Moisture	BAL	9271758	N/A	2024/03/13	Joe Thomas
pH CaCl2 EXTRACT	AT	9276915	2024/03/15	2024/03/15	Vidhi Khatri
Sodium Adsorption Ratio (SAR)	CALC/MET	9269928	N/A	2024/03/15	Automated Statchk

Bureau Veritas ID: YPL082 Dup
Sample ID: S4
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
F4G (CCME Hydrocarbons Gravimetric)	BAL	9276194	2024/03/15	2024/03/15	Jignakumari Mistry

Bureau Veritas ID: YPL083
Sample ID: S5
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur
Free (WAD) Cyanide	TECH	9278656	2024/03/15	2024/03/18	Prgya Panchal
Conductivity	AT	9277064	2024/03/15	2024/03/15	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9280124	2024/03/18	2024/03/18	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9270911	N/A	2024/03/13	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9272459	2024/03/13	2024/03/14	Suleeqa Nurr
Acid Extractable Metals by ICPMS	ICP/MS	9276900	2024/03/15	2024/03/15	Viviana Canzonieri
Moisture	BAL	9271758	N/A	2024/03/13	Joe Thomas
pH CaCl2 EXTRACT	AT	9276915	2024/03/15	2024/03/15	Vidhi Khatri
Sodium Adsorption Ratio (SAR)	CALC/MET	9269928	N/A	2024/03/15	Automated Statchk

Bureau Veritas ID: YPL083 Dup
Sample ID: S5
Matrix: Soil

Collected: 2024/03/07
Shipped:
Received: 2024/03/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9276973	2024/03/15	2024/03/18	Jaswinder Kaur

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Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9270911	AAI	Matrix Spike	1,4-Difluorobenzene	2024/03/13		101	%	60 - 140
			4-Bromofluorobenzene	2024/03/13		104	%	60 - 140
			D10-o-Xylene	2024/03/13		102	%	60 - 140
			D4-1,2-Dichloroethane	2024/03/13		97	%	60 - 140
			Benzene	2024/03/13		97	%	50 - 140
			Toluene	2024/03/13		105	%	50 - 140
			Ethylbenzene	2024/03/13		101	%	50 - 140
			o-Xylene	2024/03/13		100	%	50 - 140
			p+m-Xylene	2024/03/13		99	%	50 - 140
			F1 (C6-C10)	2024/03/13		100	%	60 - 140
9270911	AAI	Spiked Blank	1,4-Difluorobenzene	2024/03/13		110	%	60 - 140
			4-Bromofluorobenzene	2024/03/13		100	%	60 - 140
			D10-o-Xylene	2024/03/13		88	%	60 - 140
			D4-1,2-Dichloroethane	2024/03/13		98	%	60 - 140
			Benzene	2024/03/13		88	%	50 - 140
			Toluene	2024/03/13		93	%	50 - 140
			Ethylbenzene	2024/03/13		94	%	50 - 140
			o-Xylene	2024/03/13		88	%	50 - 140
			p+m-Xylene	2024/03/13		89	%	50 - 140
			F1 (C6-C10)	2024/03/13		88	%	80 - 120
9270911	AAI	Method Blank	1,4-Difluorobenzene	2024/03/13		110	%	60 - 140
			4-Bromofluorobenzene	2024/03/13		94	%	60 - 140
			D10-o-Xylene	2024/03/13		89	%	60 - 140
			D4-1,2-Dichloroethane	2024/03/13		129	%	60 - 140
			Benzene	2024/03/13	ND, RDL=0.020		ug/g	
			Toluene	2024/03/13	ND, RDL=0.020		ug/g	
			Ethylbenzene	2024/03/13	ND, RDL=0.020		ug/g	
			o-Xylene	2024/03/13	ND, RDL=0.020		ug/g	
			p+m-Xylene	2024/03/13	ND, RDL=0.040		ug/g	
			Total Xylenes	2024/03/13	ND, RDL=0.040		ug/g	
			F1 (C6-C10)	2024/03/13	ND, RDL=10		ug/g	
			F1 (C6-C10) - BTEX	2024/03/13	ND, RDL=10		ug/g	
9270911	AAI	RPD	Benzene	2024/03/13	NC		%	50
			Toluene	2024/03/13	8.4		%	50
			Ethylbenzene	2024/03/13	NC		%	50
			o-Xylene	2024/03/13	NC		%	50
			p+m-Xylene	2024/03/13	NC		%	50
			Total Xylenes	2024/03/13	NC		%	50
			F1 (C6-C10)	2024/03/13	NC		%	30
			F1 (C6-C10) - BTEX	2024/03/13	NC		%	30
9271758	JTS	RPD	Moisture	2024/03/13	3.5		%	20
9272459	SNI	Matrix Spike	o-Terphenyl	2024/03/14		98	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2024/03/14		104	%	60 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F3 (C16-C34 Hydrocarbons)	2024/03/14		108	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2024/03/14		106	%	60 - 130
9272459	SN1	Spiked Blank	o-Terphenyl	2024/03/14		92	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2024/03/14		97	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2024/03/14		102	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2024/03/14		97	%	80 - 120
9272459	SN1	Method Blank	o-Terphenyl	2024/03/13		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2024/03/13	ND, RDL=10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2024/03/13	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2024/03/13	ND, RDL=50		ug/g	
9272459	SN1	RPD	F2 (C10-C16 Hydrocarbons)	2024/03/14	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2024/03/14	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2024/03/14	NC		%	30
9276194	JMY	Matrix Spike [YPL080-02]	F4G-sg (Grav. Heavy Hydrocarbons)	2024/03/15		89	%	65 - 135
9276194	JMY	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2024/03/15		101	%	65 - 135
9276194	JMY	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2024/03/15	ND, RDL=100		ug/g	
9276194	JMY	RPD [YPL082-02]	F4G-sg (Grav. Heavy Hydrocarbons)	2024/03/15	3.1		%	50
9276900	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2024/03/15		88	%	75 - 125
			Acid Extractable Arsenic (As)	2024/03/15		94	%	75 - 125
			Acid Extractable Barium (Ba)	2024/03/15		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2024/03/15		92	%	75 - 125
			Acid Extractable Boron (B)	2024/03/15		88	%	75 - 125
			Acid Extractable Cadmium (Cd)	2024/03/15		91	%	75 - 125
			Acid Extractable Chromium (Cr)	2024/03/15		94	%	75 - 125
			Acid Extractable Cobalt (Co)	2024/03/15		92	%	75 - 125
			Acid Extractable Copper (Cu)	2024/03/15		93	%	75 - 125
			Acid Extractable Lead (Pb)	2024/03/15		92	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2024/03/15		91	%	75 - 125
			Acid Extractable Nickel (Ni)	2024/03/15		94	%	75 - 125
			Acid Extractable Selenium (Se)	2024/03/15		92	%	75 - 125
			Acid Extractable Silver (Ag)	2024/03/15		92	%	75 - 125
			Acid Extractable Thallium (Tl)	2024/03/15		96	%	75 - 125
			Acid Extractable Uranium (U)	2024/03/15		96	%	75 - 125
			Acid Extractable Vanadium (V)	2024/03/15		99	%	75 - 125
			Acid Extractable Zinc (Zn)	2024/03/15		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2024/03/15		97	%	75 - 125
9276900	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2024/03/15		98	%	80 - 120
			Acid Extractable Arsenic (As)	2024/03/15		101	%	80 - 120
			Acid Extractable Barium (Ba)	2024/03/15		108	%	80 - 120
			Acid Extractable Beryllium (Be)	2024/03/15		99	%	80 - 120
			Acid Extractable Boron (B)	2024/03/15		97	%	80 - 120
			Acid Extractable Cadmium (Cd)	2024/03/15		96	%	80 - 120
			Acid Extractable Chromium (Cr)	2024/03/15		95	%	80 - 120
			Acid Extractable Cobalt (Co)	2024/03/15		98	%	80 - 120
			Acid Extractable Copper (Cu)	2024/03/15		97	%	80 - 120
			Acid Extractable Lead (Pb)	2024/03/15		101	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2024/03/15		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Nickel (Ni)	2024/03/15		101	%	80 - 120
			Acid Extractable Selenium (Se)	2024/03/15		100	%	80 - 120
			Acid Extractable Silver (Ag)	2024/03/15		98	%	80 - 120
			Acid Extractable Thallium (Tl)	2024/03/15		105	%	80 - 120
			Acid Extractable Uranium (U)	2024/03/15		102	%	80 - 120
			Acid Extractable Vanadium (V)	2024/03/15		98	%	80 - 120
			Acid Extractable Zinc (Zn)	2024/03/15		99	%	80 - 120
			Acid Extractable Mercury (Hg)	2024/03/15		103	%	80 - 120
9276900	VIV	Method Blank	Acid Extractable Antimony (Sb)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Arsenic (As)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Barium (Ba)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Beryllium (Be)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Boron (B)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2024/03/15	ND, RDL=0.10		ug/g	
			Acid Extractable Chromium (Cr)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Cobalt (Co)	2024/03/15	ND, RDL=0.10		ug/g	
			Acid Extractable Copper (Cu)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Lead (Pb)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Nickel (Ni)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Selenium (Se)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Silver (Ag)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Thallium (Tl)	2024/03/15	ND, RDL=0.050		ug/g	
			Acid Extractable Uranium (U)	2024/03/15	ND, RDL=0.050		ug/g	
			Acid Extractable Vanadium (V)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Zinc (Zn)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Mercury (Hg)	2024/03/15	ND, RDL=0.050		ug/g	
9276900	VIV	RPD	Acid Extractable Antimony (Sb)	2024/03/15	NC		%	30
			Acid Extractable Arsenic (As)	2024/03/15	2.1		%	30
			Acid Extractable Barium (Ba)	2024/03/15	15		%	30
			Acid Extractable Beryllium (Be)	2024/03/15	6.5		%	30
			Acid Extractable Boron (B)	2024/03/15	NC		%	30
			Acid Extractable Cadmium (Cd)	2024/03/15	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Chromium (Cr)	2024/03/15	8.7		%	30
			Acid Extractable Cobalt (Co)	2024/03/15	9.2		%	30
			Acid Extractable Copper (Cu)	2024/03/15	9.4		%	30
			Acid Extractable Lead (Pb)	2024/03/15	1.9		%	30
			Acid Extractable Molybdenum (Mo)	2024/03/15	NC		%	30
			Acid Extractable Nickel (Ni)	2024/03/15	6.8		%	30
			Acid Extractable Selenium (Se)	2024/03/15	NC		%	30
			Acid Extractable Silver (Ag)	2024/03/15	NC		%	30
			Acid Extractable Thallium (Tl)	2024/03/15	7.3		%	30
			Acid Extractable Uranium (U)	2024/03/15	9.0		%	30
			Acid Extractable Vanadium (V)	2024/03/15	11		%	30
			Acid Extractable Zinc (Zn)	2024/03/15	8.0		%	30
			Acid Extractable Mercury (Hg)	2024/03/15	NC		%	30
9276911	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2024/03/15		93	%	75 - 125
			Acid Extractable Arsenic (As)	2024/03/15		94	%	75 - 125
			Acid Extractable Barium (Ba)	2024/03/15		94	%	75 - 125
			Acid Extractable Beryllium (Be)	2024/03/15		93	%	75 - 125
			Acid Extractable Boron (B)	2024/03/15		91	%	75 - 125
			Acid Extractable Cadmium (Cd)	2024/03/15		92	%	75 - 125
			Acid Extractable Chromium (Cr)	2024/03/15		95	%	75 - 125
			Acid Extractable Cobalt (Co)	2024/03/15		94	%	75 - 125
			Acid Extractable Copper (Cu)	2024/03/15		92	%	75 - 125
			Acid Extractable Lead (Pb)	2024/03/15		94	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2024/03/15		91	%	75 - 125
			Acid Extractable Nickel (Ni)	2024/03/15		96	%	75 - 125
			Acid Extractable Selenium (Se)	2024/03/15		96	%	75 - 125
			Acid Extractable Silver (Ag)	2024/03/15		95	%	75 - 125
			Acid Extractable Thallium (Tl)	2024/03/15		93	%	75 - 125
			Acid Extractable Uranium (U)	2024/03/15		95	%	75 - 125
			Acid Extractable Vanadium (V)	2024/03/15		99	%	75 - 125
			Acid Extractable Zinc (Zn)	2024/03/15		98	%	75 - 125
			Acid Extractable Mercury (Hg)	2024/03/15		96	%	75 - 125
9276911	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2024/03/15		98	%	80 - 120
			Acid Extractable Arsenic (As)	2024/03/15		96	%	80 - 120
			Acid Extractable Barium (Ba)	2024/03/15		96	%	80 - 120
			Acid Extractable Beryllium (Be)	2024/03/15		96	%	80 - 120
			Acid Extractable Boron (B)	2024/03/15		96	%	80 - 120
			Acid Extractable Cadmium (Cd)	2024/03/15		95	%	80 - 120
			Acid Extractable Chromium (Cr)	2024/03/15		94	%	80 - 120
			Acid Extractable Cobalt (Co)	2024/03/15		97	%	80 - 120
			Acid Extractable Copper (Cu)	2024/03/15		97	%	80 - 120
			Acid Extractable Lead (Pb)	2024/03/15		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2024/03/15		94	%	80 - 120
			Acid Extractable Nickel (Ni)	2024/03/15		97	%	80 - 120
			Acid Extractable Selenium (Se)	2024/03/15		98	%	80 - 120
			Acid Extractable Silver (Ag)	2024/03/15		97	%	80 - 120
			Acid Extractable Thallium (Tl)	2024/03/15		98	%	80 - 120
			Acid Extractable Uranium (U)	2024/03/15		98	%	80 - 120
			Acid Extractable Vanadium (V)	2024/03/15		94	%	80 - 120
			Acid Extractable Zinc (Zn)	2024/03/15		98	%	80 - 120
			Acid Extractable Mercury (Hg)	2024/03/15		98	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9276911	DT1	Method Blank	Acid Extractable Antimony (Sb)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Arsenic (As)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Barium (Ba)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Beryllium (Be)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Boron (B)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2024/03/15	ND, RDL=0.10		ug/g	
			Acid Extractable Chromium (Cr)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Cobalt (Co)	2024/03/15	ND, RDL=0.10		ug/g	
			Acid Extractable Copper (Cu)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Lead (Pb)	2024/03/15	ND, RDL=1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Nickel (Ni)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Selenium (Se)	2024/03/15	ND, RDL=0.50		ug/g	
			Acid Extractable Silver (Ag)	2024/03/15	ND, RDL=0.20		ug/g	
			Acid Extractable Thallium (Tl)	2024/03/15	ND, RDL=0.050		ug/g	
			Acid Extractable Uranium (U)	2024/03/15	ND, RDL=0.050		ug/g	
			Acid Extractable Vanadium (V)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Zinc (Zn)	2024/03/15	ND, RDL=5.0		ug/g	
			Acid Extractable Mercury (Hg)	2024/03/15	ND, RDL=0.050		ug/g	
9276911	DT1	RPD	Acid Extractable Arsenic (As)	2024/03/15	0.41		%	30
			Acid Extractable Uranium (U)	2024/03/15	4.1		%	30
9276915	VKH	Spiked Blank	Available (CaCl2) pH	2024/03/15		100	%	97 - 103
9276915	VKH	RPD	Available (CaCl2) pH	2024/03/15	0.14		%	N/A
9276973	JWK	Matrix Spike [YPL083-01]	Hot Water Ext. Boron (B)	2024/03/18		89	%	75 - 125
9276973	JWK	Spiked Blank	Hot Water Ext. Boron (B)	2024/03/18		101	%	75 - 125
9276973	JWK	Method Blank	Hot Water Ext. Boron (B)	2024/03/18	ND, RDL=0.050		ug/g	
9276973	JWK	RPD [YPL083-01]	Hot Water Ext. Boron (B)	2024/03/18	18		%	40
9277064	GTK	Spiked Blank	Conductivity	2024/03/15		103	%	90 - 110
9277064	GTK	Method Blank	Conductivity	2024/03/15	ND, RDL=0.002		mS/cm	
9277064	GTK	RPD [YPL082-01]	Conductivity	2024/03/15	2.6		%	10
9278656	GYA	Matrix Spike	WAD Cyanide (Free)	2024/03/18		100	%	75 - 125

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9278656	GYA	Spiked Blank	WAD Cyanide (Free)	2024/03/18		108	%	80 - 120
9278656	GYA	Method Blank	WAD Cyanide (Free)	2024/03/18	ND, RDL=0.01		ug/g	
9278656	GYA	RPD	WAD Cyanide (Free)	2024/03/18	NC		%	35
9280124	SB5	Matrix Spike	Chromium (VI)	2024/03/18		87	%	70 - 130
9280124	SB5	Spiked Blank	Chromium (VI)	2024/03/18		89	%	80 - 120
9280124	SB5	Method Blank	Chromium (VI)	2024/03/18	ND, RDL=0.18		ug/g	
9280124	SB5	RPD	Chromium (VI)	2024/03/18	NC		%	35

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Bureau Veritas Job #: C474079
Report Date: 2024/03/19

St Lawrence Testing & Inspection Co Ltd
Client Project #: SNOW DUMP
Site Location: SMITHS FALLS
Sampler Initials: GM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

St. Lawrence Testing & Inspection Co. Ltd.
P.O. Box 997, Cornwall, ON, Canada K6H 5V1
814 Second Street W., Phone (613) 938-2521
E-mail: slt@ontarioeast.net Fax (613) 938-7395

December 30, 2024

Mr. Tony Fleming
Cunningham, Swan, Carty, Little & Bonham LLP.
Smith Robinson Building
27 Princess St. #300
Kingston, ON
K7L 1A3

RE: Smiths Falls Compost Site, Smiths Falls, ON
Environmental Soil Assessment
Report No. 24C265

Dear Mr. Fleming:

On December 12, 2024, 10 soil samples were collected by the undersigned environmental engineer from the Smiths Falls Compost site located in Smiths Falls, Ontario. The samples were to be tested for soil contamination.

Ten individual test pits (TP 1 to TP 10) were dug at locations provided to St. Lawrence Testing in advance of the work. At each test pit a composite soil sample was collected. The soil samples were identified as S1 to S10, respectively for laboratory purposes. The depths and soil characterization within each test pit is tabulated below.

Test Pit	Sample ID	Depth (m)	Soil Characterization
TP 1	S1	1.0	Topsoil, sand with gravel
TP 2	S2	1.0	Topsoil, sand

TP 3	S3	1.0	Topsoil, sand
TP 4	S4	1.2	Topsoil, sand with gravel
TP 5	S5	1.2	Brown sand with gravel
TP 6	S6	1.0	Topsoil, sand with gravel
TP 7	S7	1.2	Brown sand with gravel
TP 8	S8	1.4	Brown sand with gravel
TP 9	S9	1.2	Brown sand with gravel
TP 10	S10	1.1	Brown sand with gravel

The locations of the test pits are indicated on the attached satellite image.

An aliquot of each composite soil sample was placed into individually labeled, laboratory supplied jars/methanol vials for benzene, toluene, ethylbenzene, xylenes and F_1 to F_4 petroleum hydrocarbons (collectively referred to as PHCs), metals and inorganics analyses along with polycyclic aromatic hydrocarbons (PAH).

All samples were packaged on ice within a hard sided insulated cooler and submitted to Bureau Veritas in Mississauga, Ontario under a regular turnaround time for the results.

We received and reviewed the test results on December 30, 2024. As the soil was coarse in texture and originated from a commercial property near the Town of Smiths Falls water intake location, the results were compared with Ontario Regulation 153/04, Table 2 soil standards for a commercial property with coarse soil and potable groundwater (Table 2).

Upon review of the test results, only soil samples S2, S5, S8, S9 and S10 were found to meet the Table 2 standards for PHCs, metals and inorganics along with PAHs.

The following table lists the exceedances discovered in the remaining samples.

Sample ID	Location	Compound	Concentration	Table 2 Standard
S1	TP 1	F_4G petroleum hydrocarbons	5,700 µg/g	3,300 µg/g
S1	TP 1	Benzo(a)pyrene	0.36 µg/g	0.30 µg/g
S3	TP 3	Benzo(a)pyrene	0.64 µg/g	0.30 µg/g
S3	TP3	Dibenzo(a,h)anthracene	0.11 µg/g	0.10 µg/g
S4	TP 4	Lead	290 µg/g	120 µg/g
S4	TP 4	Benzo(a)pyrene	0.85 µg/g	0.30 µg/g
S4	TP 4	Benzo(b/j)fluoranthene	1.1 µg/g	0.96 µg/g
S4	TP 4	Dibenzo(a,h)anthracene	0.14 µg/g	0.10 µg/g
S6	TP 6	Benzo(a)pyrene	0.42 µg/g	0.30 µg/g
S7	TP 7	Methylnaphthalene 2-(1-)	0.13 µg/g	0.05 µg/g

A copy of the test results for the individual soil samples analysis is attached to this report.

It is the opinion of St. Lawrence Testing that the soil collected at the locations of TP 1, TP 3, TP 4, TP 6 and TP 7 from the Smiths Falls Compost site contain concentrations of PHCs and/or metals and/or PAHs that exceeded the Table 2 standards.

STANDARD LIMITATIONS

The environmental investigation was carried out to address the intent of applicable provincial guidelines. Achieving the objectives stated in the report has required us to arrive at conclusions based upon the best information presently known to us. No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Professional judgment was exercised in gathering and analyzing the information obtained and in the formulation of the conclusions. Like all professional persons rendering advice we do not act as absolute insurers of the conclusions we reach, but we commit ourselves to care and competence in reaching those conclusions.

Our undertaking is to perform our work within the limits prescribed by our clients, with the usual thoroughness and competence of the engineering profession. It is intended that the outcome of this investigation assists in reducing the client's risks associated with environmental impairment; our work should not be considered "risk mitigation". No other warranty expressed or implied, is included or intended in this report.

The information presented in this report is based on a limited investigation designed to provide information to support an overall assessment of the current environmental conditions in the building on the subject property. The conclusions and recommendations presented in this report reflect existing site conditions within the scope of our investigation.

This report was prepared for the exclusive use of Cunningham, Swan, Carty, Little & Bonham LLP. as per the agreement and terms of reference between Cunningham, Swan, Carty, Little & Bonham LLP. and St. Lawrence Testing & Inspection Co. Ltd. Any use and interpretation of this report by any other party is entirely at their own risk.

Respectfully submitted,
ST. LAWRENCE TESTING & INSPECTION CO. LTD.

G.G. McIntee, P. Eng.
GGM:sr
Attachments


Test Pit Locations
Smiths Falls Compost Site, Smiths Falls, ON
TP 9
TP 7
TP 8
TP 1
Smiths Falls Compost Site
Smiths Falls Compost Site
TP 4
TP 6
TP 10
TP 5
TP 3
TP 2
Google Earth
Image © 2024 Airbus
N
100 m

Your Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2024/12/27
Report #: R8461482
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4BK543
Received: 2024/12/17, 10:02

Sample Matrix: Soil
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	10	N/A	2024/12/23	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	10	2024/12/20	2024/12/23	CAM SOP-00408	R153 Ana. Prot. 2011
Free (WAD) Cyanide	10	2024/12/23	2024/12/23	CAM SOP-00457	OMOE E3015 m
Conductivity	1	2024/12/20	2024/12/21	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	9	2024/12/21	2024/12/21	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1)	10	2024/12/24	2024/12/24	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	10	N/A	2024/12/20	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	2	2024/12/21	2024/12/22	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	8	2024/12/21	2024/12/23	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	6	2024/12/24	2024/12/24	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	10	2024/12/20	2024/12/23	CAM SOP-00447	EPA 6020B m
Moisture	10	N/A	2024/12/20	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM)	10	2024/12/21	2024/12/21	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT	10	2024/12/23	2024/12/23	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	10	N/A	2024/12/24	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Your Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2024/12/27
Report #: R8461482
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4BK543
Received: 2024/12/17, 10:02

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Soils are reported on a dry weight basis unless otherwise specified.
(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Jolanta Goralczyk
Project Manager
27 Dec 2024 15:24:09

Please direct all questions regarding this Certificate of Analysis to:
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

==========

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		ALZV61	ALZV62			ALZV62			ALZV64		
Sampling Date		2024/12/12 10:00	2024/12/12 10:30			2024/12/12 10:30			2024/12/12 11:00		
COC Number		N/A	N/A			N/A			N/A		
	UNITS	**S1**	**S2**	**RDL**	**QC Batch**	**S2 Lab-Dup**	**RDL**	**QC Batch**	**S3**	**RDL**	**QC Batch**
Calculated Parameters											
Sodium Adsorption Ratio	N/A	0.27 (1)	0.22 (1)		9833362				0.27 (1)		9833362
Inorganics											
Conductivity	mS/cm	0.13	0.22	0.002	9842216				0.16	0.002	9842216
Available (CaCl2) pH	pH	7.81	7.62		9843356				7.61		9843356
WAD Cyanide (Free)	ug/g	ND	ND	0.01	9843083				ND	0.01	9843083
Chromium (VI)	ug/g	ND	ND	0.18	9845363	ND	0.18	9845363	ND	0.18	9845363
Metals											
Hot Water Ext. Boron (B)	ug/g	0.13	0.30	0.050	9840710				0.22	0.050	9840710
Acid Extractable Antimony (Sb)	ug/g	0.40	0.21	0.20	9840566				0.34	0.20	9840566
Acid Extractable Arsenic (As)	ug/g	3.2	2.1	1.0	9840566				1.6	1.0	9840566
Acid Extractable Barium (Ba)	ug/g	62	71	0.50	9840566				50	0.50	9840566
Acid Extractable Beryllium (Be)	ug/g	0.23	0.27	0.20	9840566				ND	0.20	9840566
Acid Extractable Boron (B)	ug/g	ND	ND	5.0	9840566				ND	5.0	9840566
Acid Extractable Cadmium (Cd)	ug/g	0.15	ND	0.10	9840566				0.61	0.10	9840566
Acid Extractable Chromium (Cr)	ug/g	11	11	1.0	9840566				16	1.0	9840566
Acid Extractable Cobalt (Co)	ug/g	4.2	3.8	0.10	9840566				3.7	0.10	9840566
Acid Extractable Copper (Cu)	ug/g	17	16	0.50	9840566				31	0.50	9840566
Acid Extractable Lead (Pb)	ug/g	68	47	1.0	9840566				74	1.0	9840566
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.68	0.50	9840566				0.93	0.50	9840566
Acid Extractable Nickel (Ni)	ug/g	8.5	7.6	0.50	9840566				9.1	0.50	9840566
Acid Extractable Selenium (Se)	ug/g	ND	ND	0.50	9840566				ND	0.50	9840566
Acid Extractable Silver (Ag)	ug/g	ND	ND	0.20	9840566				ND	0.20	9840566
Acid Extractable Thallium (Tl)	ug/g	0.12	0.097	0.050	9840566				0.055	0.050	9840566
Acid Extractable Uranium (U)	ug/g	0.40	0.50	0.050	9840566				0.41	0.050	9840566
Acid Extractable Vanadium (V)	ug/g	22	20	5.0	9840566				20	5.0	9840566
Acid Extractable Zinc (Zn)	ug/g	50	43	5.0	9840566				93	5.0	9840566
Acid Extractable Mercury (Hg)	ug/g	0.055	ND	0.050	9840566				0.055	0.050	9840566

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		ALZV65		ALZV66		ALZV67	ALZV69	ALZV70		
Sampling Date		2024/12/12 11:30		2024/12/12 12:30		2024/12/12 13:00	2024/12/12 13:30	2024/12/12 14:00		
COC Number		N/A		N/A		N/A	N/A	N/A		
	UNITS	**S4**	**QC Batch**	**S5**	**QC Batch**	**S6**	**S7**	**S8**	**RDL**	**QC Batch**
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.26 (1)	9833362	0.23 (1)	9833362	0.20 (1)	0.23 (1)	1.1		9833362
Inorganics										
Conductivity	mS/cm	0.16	9842216	0.23	9840711	0.28	0.17	0.17	0.002	9842216
Available (CaCl2) pH	pH	7.46	9843356	7.10	9843356	7.66	7.57	7.70		9843356
WAD Cyanide (Free)	ug/g	ND	9843083	ND	9843083	ND	ND	ND	0.01	9843083
Chromium (VI)	ug/g	ND	9845363	ND	9845363	ND	ND	ND	0.18	9845363
Metals										
Hot Water Ext. Boron (B)	ug/g	0.33	9840710	0.33	9840710	0.25	0.15	ND	0.050	9840710
Acid Extractable Antimony (Sb)	ug/g	0.62	9840566	ND	9840566	0.74	0.24	ND	0.20	9840566
Acid Extractable Arsenic (As)	ug/g	2.6	9840566	2.4	9840566	3.6	3.0	2.8	1.0	9840566
Acid Extractable Barium (Ba)	ug/g	60	9840566	88	9840566	88	97	100	0.50	9840566
Acid Extractable Beryllium (Be)	ug/g	ND	9840566	0.28	9840566	0.30	0.32	0.24	0.20	9840566
Acid Extractable Boron (B)	ug/g	ND	9840566	ND	9840566	ND	ND	ND	5.0	9840566
Acid Extractable Cadmium (Cd)	ug/g	0.50	9840566	0.13	9840566	0.31	0.14	ND	0.10	9840566
Acid Extractable Chromium (Cr)	ug/g	17	9840566	12	9840566	13	11	11	1.0	9840566
Acid Extractable Cobalt (Co)	ug/g	4.1	9840566	4.4	9840566	4.6	4.1	4.9	0.10	9840566
Acid Extractable Copper (Cu)	ug/g	48	9840566	9.2	9840566	22	16	8.1	0.50	9840566
Acid Extractable Lead (Pb)	ug/g	290	9840566	22	9840566	85	35	4.1	1.0	9840566
Acid Extractable Molybdenum (Mo)	ug/g	1.2	9840566	0.68	9840566	0.85	0.69	ND	0.50	9840566
Acid Extractable Nickel (Ni)	ug/g	10	9840566	7.6	9840566	9.1	10	8.2	0.50	9840566
Acid Extractable Selenium (Se)	ug/g	ND	9840566	ND	9840566	ND	ND	ND	0.50	9840566
Acid Extractable Silver (Ag)	ug/g	ND	9840566	ND	9840566	ND	ND	ND	0.20	9840566
Acid Extractable Thallium (Tl)	ug/g	0.068	9840566	0.096	9840566	0.10	0.12	0.092	0.050	9840566
Acid Extractable Uranium (U)	ug/g	0.37	9840566	0.51	9840566	0.41	0.49	0.43	0.050	9840566
Acid Extractable Vanadium (V)	ug/g	17	9840566	22	9840566	24	22	23	5.0	9840566
Acid Extractable Zinc (Zn)	ug/g	200	9840566	50	9840566	73	38	19	5.0	9840566
Acid Extractable Mercury (Hg)	ug/g	0.074	9840566	ND	9840566	0.078	0.20	ND	0.050	9840566

RDL = Reportable Detection Limit
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(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID		ALZV70			ALZV71	ALZV72		
Sampling Date		2024/12/12 14:00			2024/12/12 14:30	2024/12/12 15:00		
COC Number		N/A			N/A	N/A		
	UNITS	**S8 Lab-Dup**	**RDL**	**QC Batch**	**S9**	**S10**	**RDL**	**QC Batch**
Calculated Parameters								
Sodium Adsorption Ratio	N/A				0.27 (1)	0.25 (1)		9833362
Inorganics								
Conductivity	mS/cm	0.17	0.002	9842216	0.26	0.17	0.002	9842216
Available (CaCl2) pH	pH	7.74		9843356	7.62	7.77		9843356
WAD Cyanide (Free)	ug/g				ND	ND	0.01	9843083
Chromium (VI)	ug/g				ND	ND	0.18	9845363
Metals								
Hot Water Ext. Boron (B)	ug/g				0.18	0.12	0.050	9840710
Acid Extractable Antimony (Sb)	ug/g				ND	0.48	0.20	9840566
Acid Extractable Arsenic (As)	ug/g				1.8	2.9	1.0	9840566
Acid Extractable Barium (Ba)	ug/g				81	100	0.50	9840566
Acid Extractable Beryllium (Be)	ug/g				0.26	0.29	0.20	9840566
Acid Extractable Boron (B)	ug/g				ND	ND	5.0	9840566
Acid Extractable Cadmium (Cd)	ug/g				ND	0.16	0.10	9840566
Acid Extractable Chromium (Cr)	ug/g				12	13	1.0	9840566
Acid Extractable Cobalt (Co)	ug/g				5.0	4.9	0.10	9840566
Acid Extractable Copper (Cu)	ug/g				11	16	0.50	9840566
Acid Extractable Lead (Pb)	ug/g				6.1	67	1.0	9840566
Acid Extractable Molybdenum (Mo)	ug/g				0.65	0.70	0.50	9840566
Acid Extractable Nickel (Ni)	ug/g				8.0	8.9	0.50	9840566
Acid Extractable Selenium (Se)	ug/g				ND	ND	0.50	9840566
Acid Extractable Silver (Ag)	ug/g				ND	ND	0.20	9840566
Acid Extractable Thallium (Tl)	ug/g				0.095	0.11	0.050	9840566
Acid Extractable Uranium (U)	ug/g				0.45	0.42	0.050	9840566
Acid Extractable Vanadium (V)	ug/g				26	27	5.0	9840566
Acid Extractable Zinc (Zn)	ug/g				15	46	5.0	9840566
Acid Extractable Mercury (Hg)	ug/g				ND	0.10	0.050	9840566

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ALZV61		ALZV62		ALZV64	ALZV65		ALZV66		
Sampling Date		2024/12/12 10:00		2024/12/12 10:30		2024/12/12 11:00	2024/12/12 11:30		2024/12/12 12:30		
COC Number		N/A		N/A		N/A	N/A		N/A		
	UNITS	**S1**	**RDL**	**S2**	**RDL**	**S3**	**S4**	**RDL**	**S5**	**RDL**	**QC Batch**
Calculated Parameters											
Methylnaphthalene, 2-(1-)	ug/g	ND	0.071	ND	0.0071	ND	ND	0.071	ND	0.0071	9833271
Polyaromatic Hydrocarbons											
Acenaphthene	ug/g	ND	0.050	ND	0.0050	ND	ND	0.050	ND	0.0050	9842259
Acenaphthylene	ug/g	0.12	0.050	ND	0.0050	ND	ND	0.050	ND	0.0050	9842259
Anthracene	ug/g	ND	0.050	ND	0.0050	0.15	0.12	0.050	0.0099	0.0050	9842259
Benzo(a)anthracene	ug/g	0.20	0.050	0.0080	0.0050	0.55	0.73	0.050	0.043	0.0050	9842259
Benzo(a)pyrene	ug/g	0.36	0.050	0.013	0.0050	0.64	0.85	0.050	0.045	0.0050	9842259
Benzo(b/j)fluoranthene	ug/g	0.39	0.050	0.018	0.0050	0.87	1.1	0.050	0.053	0.0050	9842259
Benzo(g,h,i)perylene	ug/g	0.31	0.050	0.015	0.0050	0.50	0.71	0.050	0.031	0.0050	9842259
Benzo(k)fluoranthene	ug/g	0.16	0.050	0.0064	0.0050	0.29	0.40	0.050	0.022	0.0050	9842259
Chrysene	ug/g	0.16	0.050	0.0081	0.0050	0.51	0.66	0.050	0.033	0.0050	9842259
Dibenzo(a,h)anthracene	ug/g	0.070	0.050	ND	0.0050	0.11	0.14	0.050	0.0088	0.0050	9842259
Fluoranthene	ug/g	0.24	0.050	0.015	0.0050	1.6	2.0	0.050	0.092	0.0050	9842259
Fluorene	ug/g	ND	0.050	ND	0.0050	0.053	ND	0.050	ND	0.0050	9842259
Indeno(1,2,3-cd)pyrene	ug/g	0.31	0.050	0.014	0.0050	0.52	0.72	0.050	0.033	0.0050	9842259
1-Methylnaphthalene	ug/g	ND	0.050	ND	0.0050	ND	ND	0.050	ND	0.0050	9842259
2-Methylnaphthalene	ug/g	ND	0.050	ND	0.0050	ND	ND	0.050	ND	0.0050	9842259
Naphthalene	ug/g	ND	0.050	ND	0.0050	ND	ND	0.050	ND	0.0050	9842259
Phenanthrene	ug/g	0.076	0.050	0.0071	0.0050	0.63	0.59	0.050	0.027	0.0050	9842259
Pyrene	ug/g	0.27	0.050	0.016	0.0050	1.3	1.6	0.050	0.077	0.0050	9842259
Surrogate Recovery (%)											
D10-Anthracene	%	93		94		106	108		93		9842259
D14-Terphenyl (FS)	%	86		89		91	101		88		9842259
D8-Acenaphthylene	%	81		89		86	93		90		9842259

RDL = Reportable Detection Limit
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ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ALZV67	ALZV69		ALZV70	ALZV71		ALZV72		
Sampling Date		2024/12/12 13:00	2024/12/12 13:30		2024/12/12 14:00	2024/12/12 14:30		2024/12/12 15:00		
COC Number		N/A	N/A		N/A	N/A		N/A		
	UNITS	**S6**	**S7**	**RDL**	**S8**	**S9**	**RDL**	**S10**	**RDL**	**QC Batch**
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	ND	0.13	0.071	ND	ND	0.0071	ND	0.071	9833271
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	ND	0.12	0.050	ND	ND	0.0050	ND	0.050	9842259
Acenaphthylene	ug/g	ND	ND	0.050	ND	ND	0.0050	ND	0.050	9842259
Anthracene	ug/g	0.10	0.28	0.050	ND	ND	0.0050	ND	0.050	9842259
Benzo(a)anthracene	ug/g	0.37	0.35	0.050	ND	ND	0.0050	0.099	0.050	9842259
Benzo(a)pyrene	ug/g	0.42	0.30	0.050	ND	ND	0.0050	0.14	0.050	9842259
Benzo(b/j)fluoranthene	ug/g	0.54	0.37	0.050	ND	ND	0.0050	0.17	0.050	9842259
Benzo(g,h,i)perylene	ug/g	0.35	0.19	0.050	ND	ND	0.0050	0.11	0.050	9842259
Benzo(k)fluoranthene	ug/g	0.21	0.15	0.050	ND	ND	0.0050	0.058	0.050	9842259
Chrysene	ug/g	0.32	0.28	0.050	ND	ND	0.0050	0.081	0.050	9842259
Dibenzo(a,h)anthracene	ug/g	0.081	0.056	0.050	ND	ND	0.0050	ND	0.050	9842259
Fluoranthene	ug/g	0.90	0.98	0.050	ND	ND	0.0050	0.21	0.050	9842259
Fluorene	ug/g	ND	0.19	0.050	ND	ND	0.0050	ND	0.050	9842259
Indeno(1,2,3-cd)pyrene	ug/g	0.35	0.20	0.050	ND	ND	0.0050	0.10	0.050	9842259
1-Methylnaphthalene	ug/g	ND	0.066	0.050	ND	ND	0.0050	ND	0.050	9842259
2-Methylnaphthalene	ug/g	ND	0.068	0.050	ND	ND	0.0050	ND	0.050	9842259
Naphthalene	ug/g	ND	0.081	0.050	ND	ND	0.0050	ND	0.050	9842259
Phenanthrene	ug/g	0.42	1.1	0.050	ND	ND	0.0050	0.10	0.050	9842259
Pyrene	ug/g	0.76	0.73	0.050	ND	ND	0.0050	0.22	0.050	9842259
Surrogate Recovery (%)										
D10-Anthracene	%	104	112		91	97		120		9842259
D14-Terphenyl (FS)	%	99	99		80	89		100		9842259
D8-Acenaphthylene	%	94	93		83	92		94		9842259

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		ALZV61			ALZV61			ALZV62	ALZV64		
Sampling Date		2024/12/12 10:00			2024/12/12 10:00			2024/12/12 10:30	2024/12/12 11:00		
COC Number		N/A			N/A			N/A	N/A		
	UNITS	**S1**	**RDL**	**QC Batch**	**S1 Lab-Dup**	**RDL**	**QC Batch**	**S2**	**S3**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons											
Benzene	ug/g	ND	0.020	9841741	ND	0.020	9841741	ND	ND	0.020	9841741
Toluene	ug/g	ND	0.020	9841741	ND	0.020	9841741	ND	ND	0.020	9841741
Ethylbenzene	ug/g	ND	0.020	9841741	ND	0.020	9841741	ND	ND	0.020	9841741
o-Xylene	ug/g	ND	0.020	9841741	ND	0.020	9841741	ND	ND	0.020	9841741
p+m-Xylene	ug/g	ND	0.040	9841741	ND	0.040	9841741	ND	ND	0.040	9841741
Total Xylenes	ug/g	ND	0.040	9841741	ND	0.040	9841741	ND	ND	0.040	9841741
F1 (C6-C10)	ug/g	ND	10	9841741	ND	10	9841741	ND	ND	10	9841741
F1 (C6-C10) - BTEX	ug/g	ND	10	9841741	ND	10	9841741	ND	ND	10	9841741
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	17	7.0	9842094				ND	10	7.0	9842094
F3 (C16-C34 Hydrocarbons)	ug/g	350	50	9842094				ND	250	50	9842094
F4 (C34-C50 Hydrocarbons)	ug/g	1300	50	9842094				ND	350	50	9842094
Reached Baseline at C50	ug/g	No		9842094				Yes	No		9842094
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	98		9841741	101		9841741	101	99		9841741
4-Bromofluorobenzene	%	89		9841741	95		9841741	93	96		9841741
D10-o-Xylene	%	94		9841741	98		9841741	104	102		9841741
D4-1,2-Dichloroethane	%	103		9841741	103		9841741	101	103		9841741
o-Terphenyl	%	96		9842094				102	97		9842094

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		ALZV64			ALZV65	ALZV66	ALZV67	ALZV69	ALZV70		
Sampling Date		2024/12/12 11:00			2024/12/12 11:30	2024/12/12 12:30	2024/12/12 13:00	2024/12/12 13:30	2024/12/12 14:00		
COC Number		N/A			N/A	N/A	N/A	N/A	N/A		
	UNITS	**S3 Lab-Dup**	**RDL**	**QC Batch**	**S4**	**S5**	**S6**	**S7**	**S8**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons											
Benzene	ug/g				ND	ND	ND	ND	ND	0.020	9841741
Toluene	ug/g				ND	ND	ND	ND	ND	0.020	9841741
Ethylbenzene	ug/g				ND	ND	ND	ND	ND	0.020	9841741
o-Xylene	ug/g				ND	ND	0.021	ND	ND	0.020	9841741
p+m-Xylene	ug/g				ND	ND	ND	ND	ND	0.040	9841741
Total Xylenes	ug/g				ND	ND	ND	ND	ND	0.040	9841741
F1 (C6-C10)	ug/g				ND	ND	ND	ND	ND	10	9841741
F1 (C6-C10) - BTEX	ug/g				ND	ND	ND	ND	ND	10	9841741
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	12	7.0	9842094	15	22	19	12	9.8	7.0	9842094
F3 (C16-C34 Hydrocarbons)	ug/g	300	50	9842094	320	89	210	76	ND	50	9842094
F4 (C34-C50 Hydrocarbons)	ug/g	390	50	9842094	490	66	560	240	ND	50	9842094
Reached Baseline at C50	ug/g	No		9842094	No	Yes	No	No	Yes		9842094
Surrogate Recovery (%)											
1,4-Difluorobenzene	%				102	100	100	100	100		9841741
4-Bromofluorobenzene	%				95	95	96	90	93		9841741
D10-o-Xylene	%				96	99	96	92	101		9841741
D4-1,2-Dichloroethane	%				101	101	101	99	98		9841741
o-Terphenyl	%	102		9842094	98	100	102	97	104		9842094

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		ALZV71	ALZV72		
Sampling Date		2024/12/12 14:30	2024/12/12 15:00		
COC Number		N/A	N/A		
	UNITS	**S9**	**S10**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons					
Benzene	ug/g	ND	ND	0.020	9841741
Toluene	ug/g	ND	ND	0.020	9841741
Ethylbenzene	ug/g	ND	ND	0.020	9841741
o-Xylene	ug/g	ND	ND	0.020	9841741
p+m-Xylene	ug/g	ND	ND	0.040	9841741
Total Xylenes	ug/g	ND	ND	0.040	9841741
F1 (C6-C10)	ug/g	ND	ND	10	9841741
F1 (C6-C10) - BTEX	ug/g	ND	ND	10	9841741
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	8.5	14	7.0	9842094
F3 (C16-C34 Hydrocarbons)	ug/g	ND	110	50	9842094
F4 (C34-C50 Hydrocarbons)	ug/g	ND	450	50	9842094
Reached Baseline at C50	ug/g	Yes	No		9842094
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	103	102		9841741
4-Bromofluorobenzene	%	86	91		9841741
D10-o-Xylene	%	99	97		9841741
D4-1,2-Dichloroethane	%	103	101		9841741
o-Terphenyl	%	100	105		9842094

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ALZV61	ALZV62	ALZV64	ALZV65	ALZV66	ALZV67	ALZV69		
Sampling Date		2024/12/12 10:00	2024/12/12 10:30	2024/12/12 11:00	2024/12/12 11:30	2024/12/12 12:30	2024/12/12 13:00	2024/12/12 13:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	8.6	12	9.1	13	20	14	10	1.0	9840306

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ALZV70	ALZV71	ALZV72		
Sampling Date		2024/12/12 14:00	2024/12/12 14:30	2024/12/12 15:00		
COC Number		N/A	N/A	N/A		
	UNITS	**S8**	**S9**	**S10**	**RDL**	**QC Batch**
Inorganics						
Moisture	%	13	13	12	1.0	9840306

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ALZV61	ALZV64	ALZV65	ALZV67	ALZV69	ALZV72		
Sampling Date		2024/12/12 10:00	2024/12/12 11:00	2024/12/12 11:30	2024/12/12 13:00	2024/12/12 13:30	2024/12/12 15:00		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**S1**	**S3**	**S4**	**S6**	**S7**	**S10**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons									
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	5700	1200	1800	2400	890	1800	100	9846009

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ALZV72		
Sampling Date		2024/12/12 15:00		
COC Number		N/A		
	UNITS	**S10 Lab-Dup**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	2000	100	9846009

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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TEST SUMMARY

Bureau Veritas ID: ALZV61
Sample ID: S1
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV61 Dup
Sample ID: S1
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu

Bureau Veritas ID: ALZV62
Sample ID: S2
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/22	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

TEST SUMMARY

Bureau Veritas ID: ALZV62 Dup
Sample ID: S2
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou

Bureau Veritas ID: ALZV64
Sample ID: S3
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/22	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV64 Dup
Sample ID: S3
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/22	Mohammed Abdul Nafay Shoeb

Bureau Veritas ID: ALZV65
Sample ID: S4
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu

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TEST SUMMARY

Bureau Veritas ID: ALZV65
Sample ID: S4
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV66
Sample ID: S5
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9840711	2024/12/20	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV67
Sample ID: S6
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

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Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

TEST SUMMARY

Bureau Veritas ID: ALZV69
Sample ID: S7
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV70
Sample ID: S8
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV70 Dup
Sample ID: S8
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot

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TEST SUMMARY

Bureau Veritas ID: ALZV71
Sample ID: S9
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV72
Sample ID: S10
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9833271	N/A	2024/12/23	Automated Statchk
Hot Water Extractable Boron	ICP	9840710	2024/12/20	2024/12/23	Japneet Gill
Free (WAD) Cyanide	TECH	9843083	2024/12/23	2024/12/23	Jency Sara Johnson
Conductivity	AT	9842216	2024/12/21	2024/12/21	Nachiketa Gohil
Hexavalent Chromium in Soil by IC	IC/SPEC	9845363	2024/12/24	2024/12/24	Sousan Besharatlou
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9841741	N/A	2024/12/20	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9842094	2024/12/21	2024/12/23	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama
Acid Extractable Metals by ICPMS	ICP/MS	9840566	2024/12/20	2024/12/23	Daniel Teclu
Moisture	BAL	9840306	N/A	2024/12/20	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9842259	2024/12/21	2024/12/21	Jett Wu
pH CaCl2 EXTRACT	AT	9843356	2024/12/23	2024/12/23	Sreena Thekkoot
Sodium Adsorption Ratio (SAR)	CALC/MET	9833362	N/A	2024/12/24	Automated Statchk

Bureau Veritas ID: ALZV72 Dup
Sample ID: S10
Matrix: Soil

Collected: 2024/12/12
Shipped:
Received: 2024/12/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	9846009	2024/12/24	2024/12/24	Fardous Fatama

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	4.3°C

Sample ALZV61 [S1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ALZV64 [S3] : PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ALZV65 [S4] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ALZV66 [S5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample ALZV67 [S6] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ALZV69 [S7] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ALZV71 [S9] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample ALZV72 [S10] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9840306	NTP	RPD	Moisture	2024/12/20	0.58		%	20
9840566	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2024/12/23		114	%	75 - 125
			Acid Extractable Arsenic (As)	2024/12/23		105	%	75 - 125
			Acid Extractable Barium (Ba)	2024/12/23		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2024/12/23		103	%	75 - 125
			Acid Extractable Boron (B)	2024/12/23		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2024/12/23		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2024/12/23		102	%	75 - 125
			Acid Extractable Cobalt (Co)	2024/12/23		106	%	75 - 125
			Acid Extractable Copper (Cu)	2024/12/23		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2024/12/23		96	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2024/12/23		99	%	75 - 125
			Acid Extractable Nickel (Ni)	2024/12/23		106	%	75 - 125
			Acid Extractable Selenium (Se)	2024/12/23		103	%	75 - 125
			Acid Extractable Silver (Ag)	2024/12/23		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2024/12/23		102	%	75 - 125
			Acid Extractable Uranium (U)	2024/12/23		107	%	75 - 125
			Acid Extractable Vanadium (V)	2024/12/23		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2024/12/23		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2024/12/23		98	%	75 - 125
9840566	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2024/12/23		124 (1)	%	80 - 120
			Acid Extractable Arsenic (As)	2024/12/23		110	%	80 - 120
			Acid Extractable Barium (Ba)	2024/12/23		108	%	80 - 120
			Acid Extractable Beryllium (Be)	2024/12/23		108	%	80 - 120
			Acid Extractable Boron (B)	2024/12/23		103	%	80 - 120
			Acid Extractable Cadmium (Cd)	2024/12/23		104	%	80 - 120
			Acid Extractable Chromium (Cr)	2024/12/23		108	%	80 - 120
			Acid Extractable Cobalt (Co)	2024/12/23		111	%	80 - 120
			Acid Extractable Copper (Cu)	2024/12/23		107	%	80 - 120
			Acid Extractable Lead (Pb)	2024/12/23		106	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2024/12/23		103	%	80 - 120
			Acid Extractable Nickel (Ni)	2024/12/23		112	%	80 - 120
			Acid Extractable Selenium (Se)	2024/12/23		108	%	80 - 120
			Acid Extractable Silver (Ag)	2024/12/23		106	%	80 - 120
			Acid Extractable Thallium (Tl)	2024/12/23		106	%	80 - 120
			Acid Extractable Uranium (U)	2024/12/23		110	%	80 - 120
			Acid Extractable Vanadium (V)	2024/12/23		111	%	80 - 120
			Acid Extractable Zinc (Zn)	2024/12/23		109	%	80 - 120
			Acid Extractable Mercury (Hg)	2024/12/23		103	%	80 - 120
9840566	DT1	Method Blank	Acid Extractable Antimony (Sb)	2024/12/23	ND, RDL=0.20		ug/g	
			Acid Extractable Arsenic (As)	2024/12/23	ND, RDL=1.0		ug/g	
			Acid Extractable Barium (Ba)	2024/12/23	ND, RDL=0.50		ug/g	
			Acid Extractable Beryllium (Be)	2024/12/23	ND, RDL=0.20		ug/g	
			Acid Extractable Boron (B)	2024/12/23	ND, RDL=5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2024/12/23	ND, RDL=0.10		ug/g	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Chromium (Cr)	2024/12/23	ND, RDL=1.0		ug/g	
			Acid Extractable Cobalt (Co)	2024/12/23	ND, RDL=0.10		ug/g	
			Acid Extractable Copper (Cu)	2024/12/23	ND, RDL=0.50		ug/g	
			Acid Extractable Lead (Pb)	2024/12/23	ND, RDL=1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2024/12/23	ND, RDL=0.50		ug/g	
			Acid Extractable Nickel (Ni)	2024/12/23	ND, RDL=0.50		ug/g	
			Acid Extractable Selenium (Se)	2024/12/23	ND, RDL=0.50		ug/g	
			Acid Extractable Silver (Ag)	2024/12/23	ND, RDL=0.20		ug/g	
			Acid Extractable Thallium (Tl)	2024/12/23	ND, RDL=0.050		ug/g	
			Acid Extractable Uranium (U)	2024/12/23	ND, RDL=0.050		ug/g	
			Acid Extractable Vanadium (V)	2024/12/23	ND, RDL=5.0		ug/g	
			Acid Extractable Zinc (Zn)	2024/12/23	ND, RDL=5.0		ug/g	
			Acid Extractable Mercury (Hg)	2024/12/23	ND, RDL=0.050		ug/g	
9840566	DT1	RPD	Acid Extractable Antimony (Sb)	2024/12/23	NC		%	30
			Acid Extractable Arsenic (As)	2024/12/23	1.0		%	30
			Acid Extractable Barium (Ba)	2024/12/23	9.4		%	30
			Acid Extractable Beryllium (Be)	2024/12/23	4.3		%	30
			Acid Extractable Boron (B)	2024/12/23	NC		%	30
			Acid Extractable Cadmium (Cd)	2024/12/23	NC		%	30
			Acid Extractable Chromium (Cr)	2024/12/23	9.2		%	30
			Acid Extractable Cobalt (Co)	2024/12/23	0.76		%	30
			Acid Extractable Copper (Cu)	2024/12/23	6.3		%	30
			Acid Extractable Lead (Pb)	2024/12/23	8.7		%	30
			Acid Extractable Molybdenum (Mo)	2024/12/23	3.6		%	30
			Acid Extractable Nickel (Ni)	2024/12/23	3.3		%	30
			Acid Extractable Selenium (Se)	2024/12/23	NC		%	30
			Acid Extractable Silver (Ag)	2024/12/23	NC		%	30
			Acid Extractable Thallium (Tl)	2024/12/23	NC		%	30
			Acid Extractable Uranium (U)	2024/12/23	8.7		%	30
			Acid Extractable Vanadium (V)	2024/12/23	3.4		%	30
			Acid Extractable Zinc (Zn)	2024/12/23	1.2		%	30
			Acid Extractable Mercury (Hg)	2024/12/23	NC		%	30
9840710	JGC	Matrix Spike	Hot Water Ext. Boron (B)	2024/12/23		112	%	75 - 125
9840710	JGC	Spiked Blank	Hot Water Ext. Boron (B)	2024/12/23		102	%	75 - 125
9840710	JGC	Method Blank	Hot Water Ext. Boron (B)	2024/12/23	ND, RDL=0.050		ug/g	
9840710	JGC	RPD	Hot Water Ext. Boron (B)	2024/12/23	2.2		%	40
9840711	NGI	Spiked Blank	Conductivity	2024/12/21		103	%	90 - 110

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9840711	NGI	Method Blank	Conductivity	2024/12/21	ND, RDL=0.002		mS/cm	
9840711	NGI	RPD	Conductivity	2024/12/21	7.6		%	10
9841741	GRU	Matrix Spike [ALZV61-04]	1,4-Difluorobenzene	2024/12/20		94	%	60 - 140
			4-Bromofluorobenzene	2024/12/20		102	%	60 - 140
			D10-o-Xylene	2024/12/20		94	%	60 - 140
			D4-1,2-Dichloroethane	2024/12/20		98	%	60 - 140
			Benzene	2024/12/20		76	%	50 - 140
			Toluene	2024/12/20		76	%	50 - 140
			Ethylbenzene	2024/12/20		81	%	50 - 140
			o-Xylene	2024/12/20		83	%	50 - 140
			p+m-Xylene	2024/12/20		79	%	50 - 140
			F1 (C6-C10)	2024/12/20		92	%	60 - 140
9841741	GRU	Spiked Blank	1,4-Difluorobenzene	2024/12/20		98	%	60 - 140
			4-Bromofluorobenzene	2024/12/20		100	%	60 - 140
			D10-o-Xylene	2024/12/20		109	%	60 - 140
			D4-1,2-Dichloroethane	2024/12/20		97	%	60 - 140
			Benzene	2024/12/20		89	%	50 - 140
			Toluene	2024/12/20		86	%	50 - 140
			Ethylbenzene	2024/12/20		91	%	50 - 140
			o-Xylene	2024/12/20		93	%	50 - 140
			p+m-Xylene	2024/12/20		89	%	50 - 140
			F1 (C6-C10)	2024/12/20		109	%	80 - 120
9841741	GRU	Method Blank	1,4-Difluorobenzene	2024/12/20		99	%	60 - 140
			4-Bromofluorobenzene	2024/12/20		99	%	60 - 140
			D10-o-Xylene	2024/12/20		95	%	60 - 140
			D4-1,2-Dichloroethane	2024/12/20		99	%	60 - 140
			Benzene	2024/12/20	ND, RDL=0.020		ug/g	
			Toluene	2024/12/20	ND, RDL=0.020		ug/g	
			Ethylbenzene	2024/12/20	ND, RDL=0.020		ug/g	
			o-Xylene	2024/12/20	ND, RDL=0.020		ug/g	
			p+m-Xylene	2024/12/20	ND, RDL=0.040		ug/g	
			Total Xylenes	2024/12/20	ND, RDL=0.040		ug/g	
			F1 (C6-C10)	2024/12/20	ND, RDL=10		ug/g	
			F1 (C6-C10) - BTEX	2024/12/20	ND, RDL=10		ug/g	
9841741	GRU	RPD [ALZV61-04]	Benzene	2024/12/20	NC		%	50
			Toluene	2024/12/20	NC		%	50
			Ethylbenzene	2024/12/20	NC		%	50
			o-Xylene	2024/12/20	NC		%	50
			p+m-Xylene	2024/12/20	NC		%	50
			Total Xylenes	2024/12/20	NC		%	50
			F1 (C6-C10)	2024/12/20	NC		%	30
			F1 (C6-C10) - BTEX	2024/12/20	NC		%	30
9842094	MSZ	Matrix Spike [ALZV64-03]	o-Terphenyl	2024/12/22		98	%	60 - 140

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F2 (C10-C16 Hydrocarbons)	2024/12/22		107	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2024/12/22		107	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2024/12/22		114	%	60 - 140
9842094	MSZ	Spiked Blank	o-Terphenyl	2024/12/22		96	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2024/12/22		101	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2024/12/22		102	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2024/12/22		100	%	80 - 120
9842094	MSZ	Method Blank	o-Terphenyl	2024/12/22		98	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2024/12/22	ND, RDL=7.0		ug/g	
			F3 (C16-C34 Hydrocarbons)	2024/12/22	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2024/12/22	ND, RDL=50		ug/g	
9842094	MSZ	RPD [ALZV64-03]	F2 (C10-C16 Hydrocarbons)	2024/12/22	14		%	30
			F3 (C16-C34 Hydrocarbons)	2024/12/22	18		%	30
			F4 (C34-C50 Hydrocarbons)	2024/12/22	10		%	30
9842216	NGI	Spiked Blank	Conductivity	2024/12/21		102	%	90 - 110
9842216	NGI	Method Blank	Conductivity	2024/12/21	ND, RDL=0.002		mS/cm	
9842216	NGI	RPD [ALZV70-01]	Conductivity	2024/12/21	1.4		%	10
9842259	JET	Matrix Spike	D10-Anthracene	2024/12/21		86	%	50 - 130
			D14-Terphenyl (FS)	2024/12/21		80	%	50 - 130
			D8-Acenaphthylene	2024/12/21		82	%	50 - 130
			Acenaphthene	2024/12/21		91	%	50 - 130
			Acenaphthylene	2024/12/21		89	%	50 - 130
			Anthracene	2024/12/21		88	%	50 - 130
			Benzo(a)anthracene	2024/12/21		92	%	50 - 130
			Benzo(a)pyrene	2024/12/21		96	%	50 - 130
			Benzo(b/j)fluoranthene	2024/12/21		84	%	50 - 130
			Benzo(g,h,i)perylene	2024/12/21		99	%	50 - 130
			Benzo(k)fluoranthene	2024/12/21		92	%	50 - 130
			Chrysene	2024/12/21		90	%	50 - 130
			Dibenzo(a,h)anthracene	2024/12/21		159 (1)	%	50 - 130
			Fluoranthene	2024/12/21		88	%	50 - 130
			Fluorene	2024/12/21		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2024/12/21		120	%	50 - 130
			1-Methylnaphthalene	2024/12/21		92	%	50 - 130
			2-Methylnaphthalene	2024/12/21		93	%	50 - 130
			Naphthalene	2024/12/21		88	%	50 - 130
			Phenanthrene	2024/12/21		88	%	50 - 130
			Pyrene	2024/12/21		86	%	50 - 130
9842259	JET	Spiked Blank	D10-Anthracene	2024/12/21		107	%	50 - 130
			D14-Terphenyl (FS)	2024/12/21		94	%	50 - 130
			D8-Acenaphthylene	2024/12/21		101	%	50 - 130
			Acenaphthene	2024/12/21		103	%	50 - 130
			Acenaphthylene	2024/12/21		101	%	50 - 130
			Anthracene	2024/12/21		101	%	50 - 130
			Benzo(a)anthracene	2024/12/21		103	%	50 - 130
			Benzo(a)pyrene	2024/12/21		106	%	50 - 130
			Benzo(b/j)fluoranthene	2024/12/21		103	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(g,h,i)perylene	2024/12/21		103	%	50 - 130
			Benzo(k)fluoranthene	2024/12/21		104	%	50 - 130
			Chrysene	2024/12/21		104	%	50 - 130
			Dibenzo(a,h)anthracene	2024/12/21		112	%	50 - 130
			Fluoranthene	2024/12/21		99	%	50 - 130
			Fluorene	2024/12/21		105	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2024/12/21		109	%	50 - 130
			1-Methylnaphthalene	2024/12/21		104	%	50 - 130
			2-Methylnaphthalene	2024/12/21		105	%	50 - 130
			Naphthalene	2024/12/21		101	%	50 - 130
			Phenanthrene	2024/12/21		102	%	50 - 130
			Pyrene	2024/12/21		98	%	50 - 130
9842259	JET	Method Blank	D10-Anthracene	2024/12/21		109	%	50 - 130
			D14-Terphenyl (FS)	2024/12/21		94	%	50 - 130
			D8-Acenaphthylene	2024/12/21		99	%	50 - 130
			Acenaphthene	2024/12/21	ND, RDL=0.0050		ug/g	
			Acenaphthylene	2024/12/21	ND, RDL=0.0050		ug/g	
			Anthracene	2024/12/21	ND, RDL=0.0050		ug/g	
			Benzo(a)anthracene	2024/12/21	ND, RDL=0.0050		ug/g	
			Benzo(a)pyrene	2024/12/21	ND, RDL=0.0050		ug/g	
			Benzo(b/j)fluoranthene	2024/12/21	ND, RDL=0.0050		ug/g	
			Benzo(g,h,i)perylene	2024/12/21	ND, RDL=0.0050		ug/g	
			Benzo(k)fluoranthene	2024/12/21	ND, RDL=0.0050		ug/g	
			Chrysene	2024/12/21	ND, RDL=0.0050		ug/g	
			Dibenzo(a,h)anthracene	2024/12/21	ND, RDL=0.0050		ug/g	
			Fluoranthene	2024/12/21	ND, RDL=0.0050		ug/g	
			Fluorene	2024/12/21	ND, RDL=0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2024/12/21	ND, RDL=0.0050		ug/g	
			1-Methylnaphthalene	2024/12/21	ND, RDL=0.0050		ug/g	
			2-Methylnaphthalene	2024/12/21	ND, RDL=0.0050		ug/g	
			Naphthalene	2024/12/21	ND, RDL=0.0050		ug/g	
			Phenanthrene	2024/12/21	ND, RDL=0.0050		ug/g	
			Pyrene	2024/12/21	ND, RDL=0.0050		ug/g	
9842259	JET	RPD	Acenaphthene	2024/12/21	NC		%	40

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acenaphthylene	2024/12/21	NC		%	40
			Anthracene	2024/12/21	NC		%	40
			Benzo(a)anthracene	2024/12/21	NC		%	40
			Benzo(a)pyrene	2024/12/21	NC		%	40
			Benzo(b/j)fluoranthene	2024/12/21	NC		%	40
			Benzo(g,h,i)perylene	2024/12/21	46 (1)		%	40
			Benzo(k)fluoranthene	2024/12/21	NC		%	40
			Chrysene	2024/12/21	NC		%	40
			Dibenzo(a,h)anthracene	2024/12/21	NC		%	40
			Fluoranthene	2024/12/21	NC		%	40
			Fluorene	2024/12/21	NC		%	40
			Indeno(1,2,3-cd)pyrene	2024/12/21	NC		%	40
			1-Methylnaphthalene	2024/12/21	NC		%	40
			2-Methylnaphthalene	2024/12/21	NC		%	40
			Naphthalene	2024/12/21	NC		%	40
			Phenanthrene	2024/12/21	NC		%	40
			Pyrene	2024/12/21	NC		%	40
9843083	JJH	Matrix Spike	WAD Cyanide (Free)	2024/12/23		93	%	75 - 125
9843083	JJH	Spiked Blank	WAD Cyanide (Free)	2024/12/23		99	%	80 - 120
9843083	JJH	Method Blank	WAD Cyanide (Free)	2024/12/23	ND, RDL=0.01		ug/g	
9843083	JJH	RPD	WAD Cyanide (Free)	2024/12/23	NC		%	35
9843356	SRT	Spiked Blank	Available (CaCl2) pH	2024/12/23		100	%	N/A
9843356	SRT	RPD [ALZV70-03]	Available (CaCl2) pH	2024/12/23	0.57		%	N/A
9845363	SB5	Matrix Spike [ALZV62-03]	Chromium (VI)	2024/12/24		30 (2)	%	70 - 130
9845363	SB5	Spiked Blank	Chromium (VI)	2024/12/24		93	%	80 - 120
9845363	SB5	Method Blank	Chromium (VI)	2024/12/24	ND, RDL=0.18		ug/g	
9845363	SB5	RPD [ALZV62-03]	Chromium (VI)	2024/12/24	NC		%	35
9846009	FF1	Matrix Spike [ALZV69-03]	F4G-sg (Grav. Heavy Hydrocarbons)	2024/12/24		93	%	65 - 135
9846009	FF1	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2024/12/17		102	%	65 - 135
9846009	FF1	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2024/12/24	ND, RDL=100		ug/g	
9846009	FF1	RPD [ALZV72-03]	F4G-sg (Grav. Heavy Hydrocarbons)	2024/12/24	7.7		%	50

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel. (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C4BK543
Report Date: 2024/12/27

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITH FALLS SNOW DUMP
Site Location: SMITH FALLS
Sampler Initials: GM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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St. Lawrence Testing & Inspection Co. Ltd.

P.O. Box 997, Cornwall, ON, Canada K6H 5V1
814 Second Street W., Phone (613) 938-2521
E-mail: gib@stlawrencetesting.com Fax (613) 938-7395

April 4, 2025

Mr. Paul McMunn
Town of Smiths Falls
77 Beckwith St. N. Box 695
Smiths Falls, ON
K7A 2B8

RE: Smiths Falls Compost Site, Smiths Falls, ON
Creek Water Assessment
Report No. 25C050

Dear Mr. McMunn:

On March 25, 2025, four surface water samples were collected by Ms. Vanessa Bernicky and the undersigned environmental engineer from a creek actively running near the Smiths Falls Compost site located in Smiths Falls, Ontario. The water samples were to be tested to determine the current status of creek water and be used as a baseline for any further sampling that may be necessary.

The water samples were identified as S1 to S4, respectively for laboratory purposes. The location of each water sample is found below.

Sample ID	Location
S1	North of culvert inside the compost site.
S2	South of culvert inside the compost site.
S3	North of brush pile inside compost site.
S4	Hwy 43 culvert upstream of the compost site.

Each water sample was placed into individual glass jars and sealed with no air space. There were no characteristic petroleum hydrocarbons sheen or malodours found in any of the 4 water samples. The water samples were then returned to the St. Lawrence Testing laboratory and stored at 4°C.

Each water sample was added into individually labeled, laboratory supplied vials/bottles for benzene, toluene, ethylbenzene, xylenes and F_1 to F_4 petroleum hydrocarbons (collectively referred to as PHCs), dissolved metals, chromium VI, mercury along with polycyclic aromatic hydrocarbons (PAH) analyses.

All samples were packaged on ice within a hard sided insulated cooler and submitted to Bureau Veritas in Mississauga, Ontario under a regular turnaround time for the results.

Results

We received and reviewed the test results on April 4, 2025. As the water samples were collected from a creek near the Town of Smiths Falls water intake location, the results were compared with Ontario Regulation 153/04,

Table 2 groundwater standards for all types of properties with coarse soil and potable groundwater (Table 2).

Upon review of the test results, no detectable concentrations of PHCs and PAHs, mercury or chromium VI were found in any of the collected samples. In addition, the concentrations of dissolved metals were found to meet the Table 2 groundwater standards.

A copy of the test results for the individual soil samples analysis is attached to this report.

Conclusion

It is the opinion of St. Lawrence Testing that the water samples collected from the creek traveling near the Town of Smiths Falls compost site meet Ontario Regulation 153/04 Table 2 groundwater standards for properties with potable groundwater. These results may be used as a baseline if any further creek water samples are required.

Standard Limitations

The environmental investigation was carried out to address the intent of applicable provincial guidelines. Achieving the objectives stated in the report has required us to arrive at conclusions based upon the best information presently known to us. No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Professional judgment was exercised in gathering and analyzing the information obtained and in the formulation of the conclusions. Like all professional persons rendering advice

we do not act as absolute insurers of the conclusions we reach, but we commit ourselves to care and competence in reaching those conclusions.

Our undertaking is to perform our work within the limits prescribed by our clients, with the usual thoroughness and competence of the engineering profession. It is intended that the outcome of this investigation assists in reducing the client's risks associated with environmental impairment; our work should not be considered "risk mitigation". No other warranty expressed or implied, is included or intended in this report.

The information presented in this report is based on a limited investigation designed to provide information to support an overall assessment of the current environmental conditions in the building on the subject property. The conclusions and recommendations presented in this report reflect existing site conditions within the scope of our investigation.

This report was prepared for the exclusive use of the Town of Smiths Falls as per the agreement and terms of reference between the Town of Smiths Falls and St. Lawrence Testing & Inspection Co. Ltd. Any use and interpretation of this report by any other party is entirely at their own risk.

Respectfully submitted,

ST. LAWRENCE TESTING & INSPECTION CO. LTD.

G.G. McIntee, P. Eng.

GGM:sr

Attachments

Your Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2025/04/03
Report #: R8514203
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C533951
Received: 2025/03/28, 09:05

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2025/04/02	CAM SOP-00301	EPA 8270D m
Chromium (VI) in Water	4	N/A	2025/04/01	CAM SOP-00436	EPA 7199 m
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2025/04/02	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2025/04/01	2025/04/01	CAM SOP-00316	CCME PHC-CWS m
Mercury	4	2025/04/02	2025/04/02	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	4	N/A	2025/03/31	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	4	2025/04/01	2025/04/01	CAM SOP-00318	EPA 8270E

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's

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Your Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Your C.O.C. #: N/A

Attention: Gib McIntee

St Lawrence Testing & Inspection Co Ltd

814 Second St W
PO Box 997
Cornwall, ON
CANADA K6H 5V1

Report Date: 2025/04/03
Report #: R8514203
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C533951

Received: 2025/03/28, 09:05

Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Jolanta Goralczyk
Project Manager
03 Apr 2025 17:53:04

Please direct all questions regarding this Certificate of Analysis to:
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

==========

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 METALS PACKAGE (WATER)

Bureau Veritas ID		APIS12			APIS12			APIS13		
Sampling Date		2025/03/25 13:00			2025/03/25 13:00			2025/03/25 13:30		
COC Number		N/A			N/A			N/A		
	UNITS	**S1**	**RDL**	**QC Batch**	**S1 Lab-Dup**	**RDL**	**QC Batch**	**S2**	**RDL**	**QC Batch**
Metals										
Chromium (VI)	ug/L	ND	0.50	9902060	ND	0.50	9902060	ND	0.50	9902060
Mercury (Hg)	ug/L	ND	0.10	9902695				ND	0.10	9902695
Dissolved Antimony (Sb)	ug/L	ND	0.50	9900835	ND	0.50	9900835	ND	0.50	9900835
Dissolved Arsenic (As)	ug/L	ND	1.0	9900835	ND	1.0	9900835	ND	1.0	9900835
Dissolved Barium (Ba)	ug/L	47	2.0	9900835	48	2.0	9900835	51	2.0	9900835
Dissolved Beryllium (Be)	ug/L	ND	0.40	9900835	ND	0.40	9900835	ND	0.40	9900835
Dissolved Boron (B)	ug/L	ND	10	9900835	ND	10	9900835	ND	10	9900835
Dissolved Cadmium (Cd)	ug/L	ND	0.090	9900835	ND	0.090	9900835	ND	0.090	9900835
Dissolved Chromium (Cr)	ug/L	ND	5.0	9900835	ND	5.0	9900835	ND	5.0	9900835
Dissolved Cobalt (Co)	ug/L	ND	0.50	9900835	ND	0.50	9900835	ND	0.50	9900835
Dissolved Copper (Cu)	ug/L	1.0	0.90	9900835	1.0	0.90	9900835	1.1	0.90	9900835
Dissolved Lead (Pb)	ug/L	ND	0.50	9900835	ND	0.50	9900835	ND	0.50	9900835
Dissolved Molybdenum (Mo)	ug/L	ND	0.50	9900835	ND	0.50	9900835	ND	0.50	9900835
Dissolved Nickel (Ni)	ug/L	ND	1.0	9900835	ND	1.0	9900835	ND	1.0	9900835
Dissolved Selenium (Se)	ug/L	ND	2.0	9900835	ND	2.0	9900835	ND	2.0	9900835
Dissolved Silver (Ag)	ug/L	ND	0.090	9900835	ND	0.090	9900835	ND	0.090	9900835
Dissolved Sodium (Na)	ug/L	8100	100	9900835	8000	100	9900835	7300	100	9900835
Dissolved Thallium (Tl)	ug/L	ND	0.050	9900835	ND	0.050	9900835	ND	0.050	9900835
Dissolved Uranium (U)	ug/L	0.14	0.10	9900835	0.14	0.10	9900835	0.17	0.10	9900835
Dissolved Vanadium (V)	ug/L	ND	0.50	9900835	ND	0.50	9900835	ND	0.50	9900835
Dissolved Zinc (Zn)	ug/L	8.8	5.0	9900835	13	5.0	9900835	8.2	5.0	9900835

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 METALS PACKAGE (WATER)

Bureau Veritas ID		APIS14	APIS15		
Sampling Date		2025/03/25 14:00	2025/03/25 14:30		
COC Number		N/A	N/A		
	UNITS	**S3**	**S4**	**RDL**	**QC Batch**
Metals					
Chromium (VI)	ug/L	ND	ND	0.50	9902060
Mercury (Hg)	ug/L	ND	ND	0.10	9902695
Dissolved Antimony (Sb)	ug/L	ND	ND	0.50	9900832
Dissolved Arsenic (As)	ug/L	ND	ND	1.0	9900832
Dissolved Barium (Ba)	ug/L	55	41	2.0	9900832
Dissolved Beryllium (Be)	ug/L	ND	ND	0.40	9900832
Dissolved Boron (B)	ug/L	ND	ND	10	9900832
Dissolved Cadmium (Cd)	ug/L	ND	ND	0.090	9900832
Dissolved Chromium (Cr)	ug/L	ND	ND	5.0	9900832
Dissolved Cobalt (Co)	ug/L	ND	ND	0.50	9900832
Dissolved Copper (Cu)	ug/L	ND	ND	0.90	9900832
Dissolved Lead (Pb)	ug/L	ND	ND	0.50	9900832
Dissolved Molybdenum (Mo)	ug/L	ND	ND	0.50	9900832
Dissolved Nickel (Ni)	ug/L	ND	ND	1.0	9900832
Dissolved Selenium (Se)	ug/L	ND	ND	2.0	9900832
Dissolved Silver (Ag)	ug/L	ND	ND	0.090	9900832
Dissolved Sodium (Na)	ug/L	7500	23000	100	9900832
Dissolved Thallium (Tl)	ug/L	ND	ND	0.050	9900832
Dissolved Uranium (U)	ug/L	0.16	0.16	0.10	9900832
Dissolved Vanadium (V)	ug/L	ND	ND	0.50	9900832
Dissolved Zinc (Zn)	ug/L	6.3	5.5	5.0	9900832

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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O.REG 153 PAHS (WATER)

Bureau Veritas ID		APIS12		APIS13	APIS14	APIS15		
Sampling Date		2025/03/25 13:00		2025/03/25 13:30	2025/03/25 14:00	2025/03/25 14:30		
COC Number		N/A		N/A	N/A	N/A		
	UNITS	**S1**	**QC Batch**	**S2**	**S3**	**S4**	**RDL**	**QC Batch**
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	ND	9900077	ND	ND	ND	0.071	9900575
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Acenaphthylene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Anthracene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Benzo(a)anthracene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Benzo(a)pyrene	ug/L	ND	9901823	ND	ND	ND	0.0090	9901823
Benzo(b/j)fluoranthene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Benzo(g,h,i)perylene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Benzo(k)fluoranthene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Chrysene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Dibenzo(a,h)anthracene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Fluoranthene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Fluorene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Indeno(1,2,3-cd)pyrene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
1-Methylnaphthalene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
2-Methylnaphthalene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Naphthalene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Phenanthrene	ug/L	ND	9901823	ND	ND	ND	0.030	9901823
Pyrene	ug/L	ND	9901823	ND	ND	ND	0.050	9901823
Surrogate Recovery (%)								
D10-Anthracene	%	106	9901823	104	101	104		9901823
D14-Terphenyl (FS)	%	105	9901823	106	104	108		9901823
D8-Acenaphthylene	%	95	9901823	94	92	93		9901823

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		APIS12	APIS13	APIS14	APIS15		
Sampling Date		2025/03/25 13:00	2025/03/25 13:30	2025/03/25 14:00	2025/03/25 14:30		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	**S1**	**S2**	**S3**	**S4**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons							
Benzene	ug/L	ND	ND	ND	ND	0.20	9902637
Toluene	ug/L	ND	ND	ND	ND	0.20	9902637
Ethylbenzene	ug/L	ND	ND	ND	ND	0.20	9902637
o-Xylene	ug/L	ND	ND	ND	ND	0.20	9902637
p+m-Xylene	ug/L	ND	ND	ND	ND	0.40	9902637
Total Xylenes	ug/L	ND	ND	ND	ND	0.40	9902637
F1 (C6-C10)	ug/L	ND	ND	ND	ND	25	9902637
F1 (C6-C10) - BTEX	ug/L	ND	ND	ND	ND	25	9902637
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	ND	ND	90	9901826
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	ND	ND	200	9901826
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	ND	ND	200	9901826
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		9901826
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	99	95	98	97		9902637
4-Bromofluorobenzene	%	100	97	97	97		9902637
D10-o-Xylene	%	97	95	95	95		9902637
D4-1,2-Dichloroethane	%	97	95	93	93		9902637
o-Terphenyl	%	89	91	89	87		9901826

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

TEST SUMMARY

Bureau Veritas ID: APIS12
Sample ID: S1
Matrix: Water

Collected: 2025/03/25
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900077	N/A	2025/04/02	Automated Statchk
Chromium (VI) in Water	IC	9902060	N/A	2025/04/01	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9902637	N/A	2025/04/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9901826	2025/04/01	2025/04/01	Anna Stuglik-Rolland
Mercury	CV/AA	9902695	2025/04/02	2025/04/02	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9900835	N/A	2025/03/31	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9901823	2025/04/01	2025/04/01	Margaret Kulczyk-Stanko

Bureau Veritas ID: APIS12 Dup
Sample ID: S1
Matrix: Water

Collected: 2025/03/25
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	9902060	N/A	2025/04/01	Rupinder Sihota
Dissolved Metals by ICPMS	ICP/MS	9900835	N/A	2025/03/31	Nan Raykha

Bureau Veritas ID: APIS13
Sample ID: S2
Matrix: Water

Collected: 2025/03/25
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900575	N/A	2025/04/02	Automated Statchk
Chromium (VI) in Water	IC	9902060	N/A	2025/04/01	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9902637	N/A	2025/04/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9901826	2025/04/01	2025/04/01	Anna Stuglik-Rolland
Mercury	CV/AA	9902695	2025/04/02	2025/04/02	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9900835	N/A	2025/03/31	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9901823	2025/04/01	2025/04/01	Margaret Kulczyk-Stanko

Bureau Veritas ID: APIS14
Sample ID: S3
Matrix: Water

Collected: 2025/03/25
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900575	N/A	2025/04/02	Automated Statchk
Chromium (VI) in Water	IC	9902060	N/A	2025/04/01	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9902637	N/A	2025/04/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9901826	2025/04/01	2025/04/01	Anna Stuglik-Rolland
Mercury	CV/AA	9902695	2025/04/02	2025/04/02	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9900832	N/A	2025/03/31	Indira HarryPaul
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9901823	2025/04/01	2025/04/01	Margaret Kulczyk-Stanko

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

TEST SUMMARY

Bureau Veritas ID: APIS15
Sample ID: S4
Matrix: Water

Collected: 2025/03/25
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900575	N/A	2025/04/02	Automated Statchk
Chromium (VI) in Water	IC	9902060	N/A	2025/04/01	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9902637	N/A	2025/04/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9901826	2025/04/01	2025/04/01	Anna Stuglik-Rolland
Mercury	CV/AA	9902695	2025/04/02	2025/04/02	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9900832	N/A	2025/03/31	Indira HarryPaul
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9901823	2025/04/01	2025/04/01	Margaret Kulczyk-Stanko

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9900832	IHP	Matrix Spike	Dissolved Antimony (Sb)	2025/03/31		102	%	80 - 120
			Dissolved Arsenic (As)	2025/03/31		99	%	80 - 120
			Dissolved Barium (Ba)	2025/03/31		101	%	80 - 120
			Dissolved Beryllium (Be)	2025/03/31		98	%	80 - 120
			Dissolved Boron (B)	2025/03/31		91	%	80 - 120
			Dissolved Cadmium (Cd)	2025/03/31		99	%	80 - 120
			Dissolved Chromium (Cr)	2025/03/31		97	%	80 - 120
			Dissolved Cobalt (Co)	2025/03/31		93	%	80 - 120
			Dissolved Copper (Cu)	2025/03/31		97	%	80 - 120
			Dissolved Lead (Pb)	2025/03/31		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/03/31		100	%	80 - 120
			Dissolved Nickel (Ni)	2025/03/31		94	%	80 - 120
			Dissolved Selenium (Se)	2025/03/31		99	%	80 - 120
			Dissolved Silver (Ag)	2025/03/31		93	%	80 - 120
			Dissolved Sodium (Na)	2025/03/31		93	%	80 - 120
			Dissolved Thallium (Tl)	2025/03/31		99	%	80 - 120
			Dissolved Uranium (U)	2025/03/31		103	%	80 - 120
			Dissolved Vanadium (V)	2025/03/31		97	%	80 - 120
			Dissolved Zinc (Zn)	2025/03/31		97	%	80 - 120
9900832	IHP	Spiked Blank	Dissolved Antimony (Sb)	2025/03/31		96	%	80 - 120
			Dissolved Arsenic (As)	2025/03/31		97	%	80 - 120
			Dissolved Barium (Ba)	2025/03/31		97	%	80 - 120
			Dissolved Beryllium (Be)	2025/03/31		94	%	80 - 120
			Dissolved Boron (B)	2025/03/31		89	%	80 - 120
			Dissolved Cadmium (Cd)	2025/03/31		95	%	80 - 120
			Dissolved Chromium (Cr)	2025/03/31		95	%	80 - 120
			Dissolved Cobalt (Co)	2025/03/31		91	%	80 - 120
			Dissolved Copper (Cu)	2025/03/31		94	%	80 - 120
			Dissolved Lead (Pb)	2025/03/31		94	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/03/31		96	%	80 - 120
			Dissolved Nickel (Ni)	2025/03/31		92	%	80 - 120
			Dissolved Selenium (Se)	2025/03/31		95	%	80 - 120
			Dissolved Silver (Ag)	2025/03/31		91	%	80 - 120
			Dissolved Sodium (Na)	2025/03/31		94	%	80 - 120
			Dissolved Thallium (Tl)	2025/03/31		99	%	80 - 120
			Dissolved Uranium (U)	2025/03/31		98	%	80 - 120
			Dissolved Vanadium (V)	2025/03/31		95	%	80 - 120
			Dissolved Zinc (Zn)	2025/03/31		95	%	80 - 120
9900832	IHP	Method Blank	Dissolved Antimony (Sb)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Arsenic (As)	2025/03/31	ND, RDL=1.0		ug/L	
			Dissolved Barium (Ba)	2025/03/31	ND, RDL=2.0		ug/L	
			Dissolved Beryllium (Be)	2025/03/31	ND, RDL=0.40		ug/L	
			Dissolved Boron (B)	2025/03/31	ND, RDL=10		ug/L	
			Dissolved Cadmium (Cd)	2025/03/31	ND, RDL=0.090		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2025/03/31	ND, RDL=5.0		ug/L	
			Dissolved Cobalt (Co)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Copper (Cu)	2025/03/31	ND, RDL=0.90		ug/L	
			Dissolved Lead (Pb)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Molybdenum (Mo)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Nickel (Ni)	2025/03/31	ND, RDL=1.0		ug/L	
			Dissolved Selenium (Se)	2025/03/31	ND, RDL=2.0		ug/L	
			Dissolved Silver (Ag)	2025/03/31	ND, RDL=0.090		ug/L	
			Dissolved Sodium (Na)	2025/03/31	ND, RDL=100		ug/L	
			Dissolved Thallium (Tl)	2025/03/31	ND, RDL=0.050		ug/L	
			Dissolved Uranium (U)	2025/03/31	ND, RDL=0.10		ug/L	
			Dissolved Vanadium (V)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Zinc (Zn)	2025/03/31	ND, RDL=5.0		ug/L	
9900832	IHP	RPD	Dissolved Lead (Pb)	2025/03/31	NC		%	20
9900835	N_R	Matrix Spike [APIS12-03]	Dissolved Antimony (Sb)	2025/03/31		101	%	80 - 120
			Dissolved Arsenic (As)	2025/03/31		99	%	80 - 120
			Dissolved Barium (Ba)	2025/03/31		97	%	80 - 120
			Dissolved Beryllium (Be)	2025/03/31		93	%	80 - 120
			Dissolved Boron (B)	2025/03/31		89	%	80 - 120
			Dissolved Cadmium (Cd)	2025/03/31		100	%	80 - 120
			Dissolved Chromium (Cr)	2025/03/31		95	%	80 - 120
			Dissolved Cobalt (Co)	2025/03/31		96	%	80 - 120
			Dissolved Copper (Cu)	2025/03/31		99	%	80 - 120
			Dissolved Lead (Pb)	2025/03/31		95	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/03/31		98	%	80 - 120
			Dissolved Nickel (Ni)	2025/03/31		95	%	80 - 120
			Dissolved Selenium (Se)	2025/03/31		100	%	80 - 120
			Dissolved Silver (Ag)	2025/03/31		89	%	80 - 120
			Dissolved Sodium (Na)	2025/03/31		94	%	80 - 120
			Dissolved Thallium (Tl)	2025/03/31		98	%	80 - 120
			Dissolved Uranium (U)	2025/03/31		99	%	80 - 120
			Dissolved Vanadium (V)	2025/03/31		95	%	80 - 120
			Dissolved Zinc (Zn)	2025/03/31		98	%	80 - 120
9900835	N_R	Spiked Blank	Dissolved Antimony (Sb)	2025/03/31		98	%	80 - 120
			Dissolved Arsenic (As)	2025/03/31		98	%	80 - 120
			Dissolved Barium (Ba)	2025/03/31		96	%	80 - 120
			Dissolved Beryllium (Be)	2025/03/31		92	%	80 - 120
			Dissolved Boron (B)	2025/03/31		89	%	80 - 120
			Dissolved Cadmium (Cd)	2025/03/31		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Chromium (Cr)	2025/03/31		96	%	80 - 120
			Dissolved Cobalt (Co)	2025/03/31		98	%	80 - 120
			Dissolved Copper (Cu)	2025/03/31		98	%	80 - 120
			Dissolved Lead (Pb)	2025/03/31		96	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/03/31		97	%	80 - 120
			Dissolved Nickel (Ni)	2025/03/31		97	%	80 - 120
			Dissolved Selenium (Se)	2025/03/31		98	%	80 - 120
			Dissolved Silver (Ag)	2025/03/31		92	%	80 - 120
			Dissolved Sodium (Na)	2025/03/31		99	%	80 - 120
			Dissolved Thallium (Tl)	2025/03/31		98	%	80 - 120
			Dissolved Uranium (U)	2025/03/31		99	%	80 - 120
			Dissolved Vanadium (V)	2025/03/31		96	%	80 - 120
			Dissolved Zinc (Zn)	2025/03/31		98	%	80 - 120
9900835	N_R	Method Blank	Dissolved Antimony (Sb)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Arsenic (As)	2025/03/31	ND, RDL=1.0		ug/L	
			Dissolved Barium (Ba)	2025/03/31	ND, RDL=2.0		ug/L	
			Dissolved Beryllium (Be)	2025/03/31	ND, RDL=0.40		ug/L	
			Dissolved Boron (B)	2025/03/31	ND, RDL=10		ug/L	
			Dissolved Cadmium (Cd)	2025/03/31	ND, RDL=0.090		ug/L	
			Dissolved Chromium (Cr)	2025/03/31	ND, RDL=5.0		ug/L	
			Dissolved Cobalt (Co)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Copper (Cu)	2025/03/31	ND, RDL=0.90		ug/L	
			Dissolved Lead (Pb)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Molybdenum (Mo)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Nickel (Ni)	2025/03/31	ND, RDL=1.0		ug/L	
			Dissolved Selenium (Se)	2025/03/31	ND, RDL=2.0		ug/L	
			Dissolved Silver (Ag)	2025/03/31	ND, RDL=0.090		ug/L	
			Dissolved Sodium (Na)	2025/03/31	ND, RDL=100		ug/L	
			Dissolved Thallium (Tl)	2025/03/31	ND, RDL=0.050		ug/L	
			Dissolved Uranium (U)	2025/03/31	ND, RDL=0.10		ug/L	
			Dissolved Vanadium (V)	2025/03/31	ND, RDL=0.50		ug/L	
			Dissolved Zinc (Zn)	2025/03/31	ND, RDL=5.0		ug/L	
9900835	N_R	RPD [APIS12-03]	Dissolved Antimony (Sb)	2025/03/31	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Arsenic (As)	2025/03/31	NC		%	20
			Dissolved Barium (Ba)	2025/03/31	2.1		%	20
			Dissolved Beryllium (Be)	2025/03/31	NC		%	20
			Dissolved Boron (B)	2025/03/31	NC		%	20
			Dissolved Cadmium (Cd)	2025/03/31	NC		%	20
			Dissolved Chromium (Cr)	2025/03/31	NC		%	20
			Dissolved Cobalt (Co)	2025/03/31	NC		%	20
			Dissolved Copper (Cu)	2025/03/31	0.86		%	20
			Dissolved Lead (Pb)	2025/03/31	NC		%	20
			Dissolved Molybdenum (Mo)	2025/03/31	NC		%	20
			Dissolved Nickel (Ni)	2025/03/31	NC		%	20
			Dissolved Selenium (Se)	2025/03/31	NC		%	20
			Dissolved Silver (Ag)	2025/03/31	NC		%	20
			Dissolved Sodium (Na)	2025/03/31	0.76		%	20
			Dissolved Thallium (Tl)	2025/03/31	NC		%	20
			Dissolved Uranium (U)	2025/03/31	2.1		%	20
			Dissolved Vanadium (V)	2025/03/31	NC		%	20
			Dissolved Zinc (Zn)	2025/03/31	NC		%	20
9901823	MKS	Matrix Spike	D10-Anthracene	2025/04/01		101	%	50 - 130
			D14-Terphenyl (FS)	2025/04/01		102	%	50 - 130
			D8-Acenaphthylene	2025/04/01		94	%	50 - 130
			Acenaphthene	2025/04/01		94	%	50 - 130
			Acenaphthylene	2025/04/01		92	%	50 - 130
			Anthracene	2025/04/01		106	%	50 - 130
			Benzo(a)anthracene	2025/04/01		103	%	50 - 130
			Benzo(a)pyrene	2025/04/01		97	%	50 - 130
			Benzo(b/j)fluoranthene	2025/04/01		100	%	50 - 130
			Benzo(g,h,i)perylene	2025/04/01		98	%	50 - 130
			Benzo(k)fluoranthene	2025/04/01		102	%	50 - 130
			Chrysene	2025/04/01		99	%	50 - 130
			Dibenzo(a,h)anthracene	2025/04/01		89	%	50 - 130
			Fluoranthene	2025/04/01		112	%	50 - 130
			Fluorene	2025/04/01		100	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/04/01		105	%	50 - 130
			1-Methylnaphthalene	2025/04/01		92	%	50 - 130
			2-Methylnaphthalene	2025/04/01		90	%	50 - 130
			Naphthalene	2025/04/01		91	%	50 - 130
			Phenanthrene	2025/04/01		101	%	50 - 130
			Pyrene	2025/04/01		112	%	50 - 130
9901823	MKS	Spiked Blank	D10-Anthracene	2025/04/01		104	%	50 - 130
			D14-Terphenyl (FS)	2025/04/01		106	%	50 - 130
			D8-Acenaphthylene	2025/04/01		95	%	50 - 130
			Acenaphthene	2025/04/01		92	%	50 - 130
			Acenaphthylene	2025/04/01		90	%	50 - 130
			Anthracene	2025/04/01		103	%	50 - 130
			Benzo(a)anthracene	2025/04/01		101	%	50 - 130
			Benzo(a)pyrene	2025/04/01		96	%	50 - 130
			Benzo(b/j)fluoranthene	2025/04/01		99	%	50 - 130
			Benzo(g,h,i)perylene	2025/04/01		98	%	50 - 130
			Benzo(k)fluoranthene	2025/04/01		102	%	50 - 130
			Chrysene	2025/04/01		99	%	50 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dibenzo(a,h)anthracene	2025/04/01		90	%	50 - 130
			Fluoranthene	2025/04/01		107	%	50 - 130
			Fluorene	2025/04/01		96	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/04/01		107	%	50 - 130
			1-Methylnaphthalene	2025/04/01		88	%	50 - 130
			2-Methylnaphthalene	2025/04/01		86	%	50 - 130
			Naphthalene	2025/04/01		87	%	50 - 130
			Phenanthrene	2025/04/01		98	%	50 - 130
			Pyrene	2025/04/01		108	%	50 - 130
9901823	MKS	Method Blank	D10-Anthracene	2025/04/01		102	%	50 - 130
			D14-Terphenyl (FS)	2025/04/01		106	%	50 - 130
			D8-Acenaphthylene	2025/04/01		93	%	50 - 130
			Acenaphthene	2025/04/01	ND, RDL=0.050		ug/L	
			Acenaphthylene	2025/04/01	ND, RDL=0.050		ug/L	
			Anthracene	2025/04/01	ND, RDL=0.050		ug/L	
			Benzo(a)anthracene	2025/04/01	ND, RDL=0.050		ug/L	
			Benzo(a)pyrene	2025/04/01	ND, RDL=0.0090		ug/L	
			Benzo(b/j)fluoranthene	2025/04/01	ND, RDL=0.050		ug/L	
			Benzo(g,h,i)perylene	2025/04/01	ND, RDL=0.050		ug/L	
			Benzo(k)fluoranthene	2025/04/01	ND, RDL=0.050		ug/L	
			Chrysene	2025/04/01	ND, RDL=0.050		ug/L	
			Dibenzo(a,h)anthracene	2025/04/01	ND, RDL=0.050		ug/L	
			Fluoranthene	2025/04/01	ND, RDL=0.050		ug/L	
			Fluorene	2025/04/01	ND, RDL=0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/04/01	ND, RDL=0.050		ug/L	
			1-Methylnaphthalene	2025/04/01	ND, RDL=0.050		ug/L	
			2-Methylnaphthalene	2025/04/01	ND, RDL=0.050		ug/L	
			Naphthalene	2025/04/01	ND, RDL=0.050		ug/L	
			Phenanthrene	2025/04/01	ND, RDL=0.030		ug/L	
			Pyrene	2025/04/01	ND, RDL=0.050		ug/L	
9901823	MKS	RPD	Acenaphthene	2025/04/01	NC		%	30
			Acenaphthylene	2025/04/01	NC		%	30
			Anthracene	2025/04/01	NC		%	30
			Benzo(a)anthracene	2025/04/01	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)pyrene	2025/04/01	NC		%	30
			Benzo(b/j)fluoranthene	2025/04/01	NC		%	30
			Benzo(g,h,i)perylene	2025/04/01	NC		%	30
			Benzo(k)fluoranthene	2025/04/01	NC		%	30
			Chrysene	2025/04/01	NC		%	30
			Dibenzo(a,h)anthracene	2025/04/01	NC		%	30
			Fluoranthene	2025/04/01	NC		%	30
			Fluorene	2025/04/01	NC		%	30
			Indeno(1,2,3-cd)pyrene	2025/04/01	NC		%	30
			1-Methylnaphthalene	2025/04/01	NC		%	30
			2-Methylnaphthalene	2025/04/01	NC		%	30
			Naphthalene	2025/04/01	NC		%	30
			Phenanthrene	2025/04/01	NC		%	30
			Pyrene	2025/04/01	NC		%	30
9901826	AS2	Matrix Spike	o-Terphenyl	2025/04/01		87	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/04/01		88	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/04/01		91	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/04/01		83	%	60 - 140
9901826	AS2	Spiked Blank	o-Terphenyl	2025/04/01		90	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/04/01		91	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/04/01		95	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/04/01		83	%	60 - 140
9901826	AS2	Method Blank	o-Terphenyl	2025/04/01		87	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/04/01	ND, RDL=90		ug/L	
			F3 (C16-C34 Hydrocarbons)	2025/04/01	ND, RDL=200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2025/04/01	ND, RDL=200		ug/L	
9901826	AS2	RPD	F2 (C10-C16 Hydrocarbons)	2025/04/01	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/04/01	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/04/01	NC		%	30
9902060	RSU	Matrix Spike [APIS12-04]	Chromium (VI)	2025/04/01		99	%	80 - 120
9902060	RSU	Spiked Blank	Chromium (VI)	2025/04/01		99	%	80 - 120
9902060	RSU	Method Blank	Chromium (VI)	2025/04/01	ND, RDL=0.50		ug/L	
9902060	RSU	RPD [APIS12-04]	Chromium (VI)	2025/04/01	NC		%	20
9902637	RGA	Matrix Spike	1,4-Difluorobenzene	2025/04/02		97	%	70 - 130
			4-Bromofluorobenzene	2025/04/02		102	%	70 - 130
			D10-o-Xylene	2025/04/02		98	%	70 - 130
			D4-1,2-Dichloroethane	2025/04/02		94	%	70 - 130
			Benzene	2025/04/02		87	%	50 - 140
			Toluene	2025/04/02		87	%	50 - 140
			Ethylbenzene	2025/04/02		102	%	50 - 140
			o-Xylene	2025/04/02		100	%	50 - 140
			p+m-Xylene	2025/04/02		95	%	50 - 140
			F1 (C6-C10)	2025/04/02		98	%	60 - 140
9902637	RGA	Spiked Blank	1,4-Difluorobenzene	2025/04/02		95	%	70 - 130
			4-Bromofluorobenzene	2025/04/02		97	%	70 - 130
			D10-o-Xylene	2025/04/02		95	%	70 - 130
			D4-1,2-Dichloroethane	2025/04/02		91	%	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzene	2025/04/02		83	%	50 - 140
			Toluene	2025/04/02		84	%	50 - 140
			Ethylbenzene	2025/04/02		104	%	50 - 140
			o-Xylene	2025/04/02		96	%	50 - 140
			p+m-Xylene	2025/04/02		96	%	50 - 140
			F1 (C6-C10)	2025/04/02		97	%	60 - 140
9902637	RGA	Method Blank	1,4-Difluorobenzene	2025/04/02		96	%	70 - 130
			4-Bromofluorobenzene	2025/04/02		95	%	70 - 130
			D10-o-Xylene	2025/04/02		94	%	70 - 130
			D4-1,2-Dichloroethane	2025/04/02		95	%	70 - 130
			Benzene	2025/04/02	ND, RDL=0.20		ug/L	
			Toluene	2025/04/02	ND, RDL=0.20		ug/L	
			Ethylbenzene	2025/04/02	ND, RDL=0.20		ug/L	
			o-Xylene	2025/04/02	ND, RDL=0.20		ug/L	
			p+m-Xylene	2025/04/02	ND, RDL=0.40		ug/L	
			Total Xylenes	2025/04/02	ND, RDL=0.40		ug/L	
			F1 (C6-C10)	2025/04/02	ND, RDL=25		ug/L	
			F1 (C6-C10) - BTEX	2025/04/02	ND, RDL=25		ug/L	
9902637	RGA	RPD	Benzene	2025/04/02	NC		%	30
			Toluene	2025/04/02	NC		%	30
			Ethylbenzene	2025/04/02	NC		%	30
			o-Xylene	2025/04/02	NC		%	30
			p+m-Xylene	2025/04/02	NC		%	30
			Total Xylenes	2025/04/02	NC		%	30
			F1 (C6-C10)	2025/04/02	NC		%	30
			F1 (C6-C10) - BTEX	2025/04/02	NC		%	30
9902695	MPJ	Matrix Spike	Mercury (Hg)	2025/04/02		94	%	75 - 125
9902695	MPJ	Spiked Blank	Mercury (Hg)	2025/04/02		98	%	80 - 120
9902695	MPJ	Method Blank	Mercury (Hg)	2025/04/02	ND, RDL=0.10		ug/L	
9902695	MPJ	RPD	Mercury (Hg)	2025/04/02	NC		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Bureau Veritas Job #: C533951
Report Date: 2025/04/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: SMITHS FALLS COMPOST SITE
Site Location: SMITHS FALLS
Sampler Initials: GM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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