RLC-HydroG

Hydrogeological Assessment
Smiths Falls Compost Site
3514 Highway 43, Smiths Falls, Ontario

RLC-HydroG – Hydrogeological Services
Ottawa, Ontario
July 8, 2025

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RLC-HydroG

July 8, 2025
Project Number: 25022

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Re: **Hydrogeological Assessment**
Smiths Falls Compost Site
3514 Highway 43, Smiths Falls, Ontario

1 INTRODUCTION

RLC-HydroG was retained by St. Lawrence Testing & Inspection Co. Ltd. (SLT) on behalf of the Town of Smiths Falls to conduct a hydrogeological assessment for the Smiths Falls Compost Site located at 3514 Highway 43, Smiths Falls, Ontario. The location of the site is indicated in Figure 1. The Smiths Falls Compost Site has been in operations since 1993.

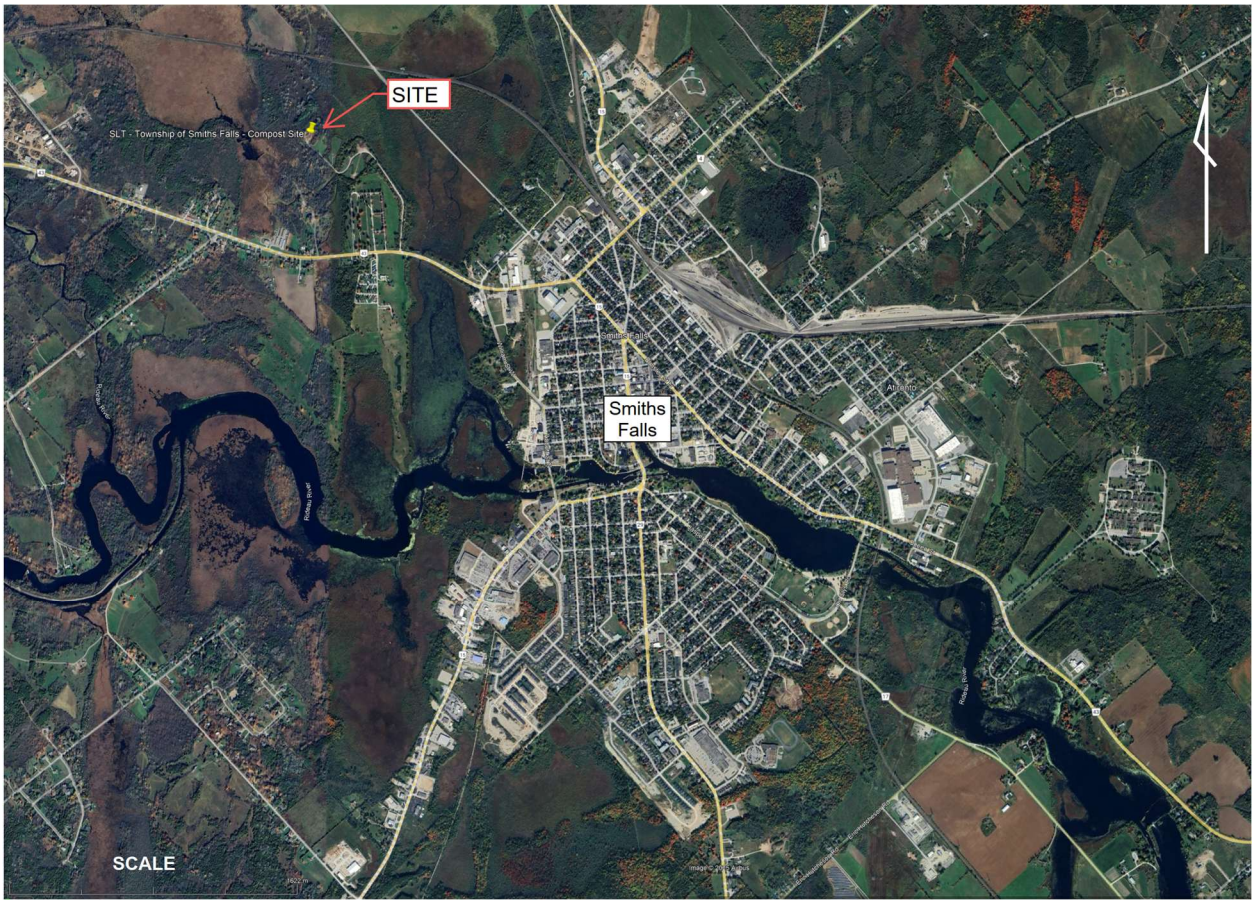
The site is operated under Provisional Certificate of Approval A450106. The Town of Smiths Falls is currently in the process of obtaining an amendment to the Environmental Compliance Approval (ECA) for the Compost Site.

1.1 Objectives

The objectives of the hydrogeological assessment were determined based on consultation with the Town of Smiths Falls, and MECP technical information requirements for compost sites (MECP, 2013) including the assessment of:

- Physical conditions at the site (outdoor composting operation on a granular base).
- Water use conditions in the area.
- Surface water hydrology and quality.
- Terrain analysis, soil quality, and geology.
- Hydrogeology including water table elevations and groundwater flow directions.
- Overburden groundwater quality.
- Identification of water supply wells, water takings, and other water uses.
- Distance to nearest water supply wells.
- Regulatory requirements.
- Municipal zoning.
- Conservation authority requirements.
- Potential impacts to soils, groundwater, surface water and water users.
- Monitoring and contingency plans to detect and mitigate impacts.

Figure 1: Site Location



1.2 Scope of Work

The following scope of work was developed in consultation with SLT and the Town of Smiths Falls:

- Pre-consultation with RVCA.
- Desktop study including a review of background information (water well records, geological databases, hydrology information, topography, known water uses).
- Review of previous site investigation reports by SLT.
- Site Visit
- Traverse the site and view surrounding areas.
- Inspect new overburden monitoring wells.
- Measure groundwater elevations at monitoring wells.
- Conduct an elevation survey to establish well reference elevations.

2 SITE DESCRIPTION

The civic address of the Smiths Falls Compost Site is 3514 Highway 43, Smiths Falls, Ontario. The site occurs on Parts of Concession 5 & 6, Lots 1 & 2, Geographic Township of North Elmsley, Township of Drummond

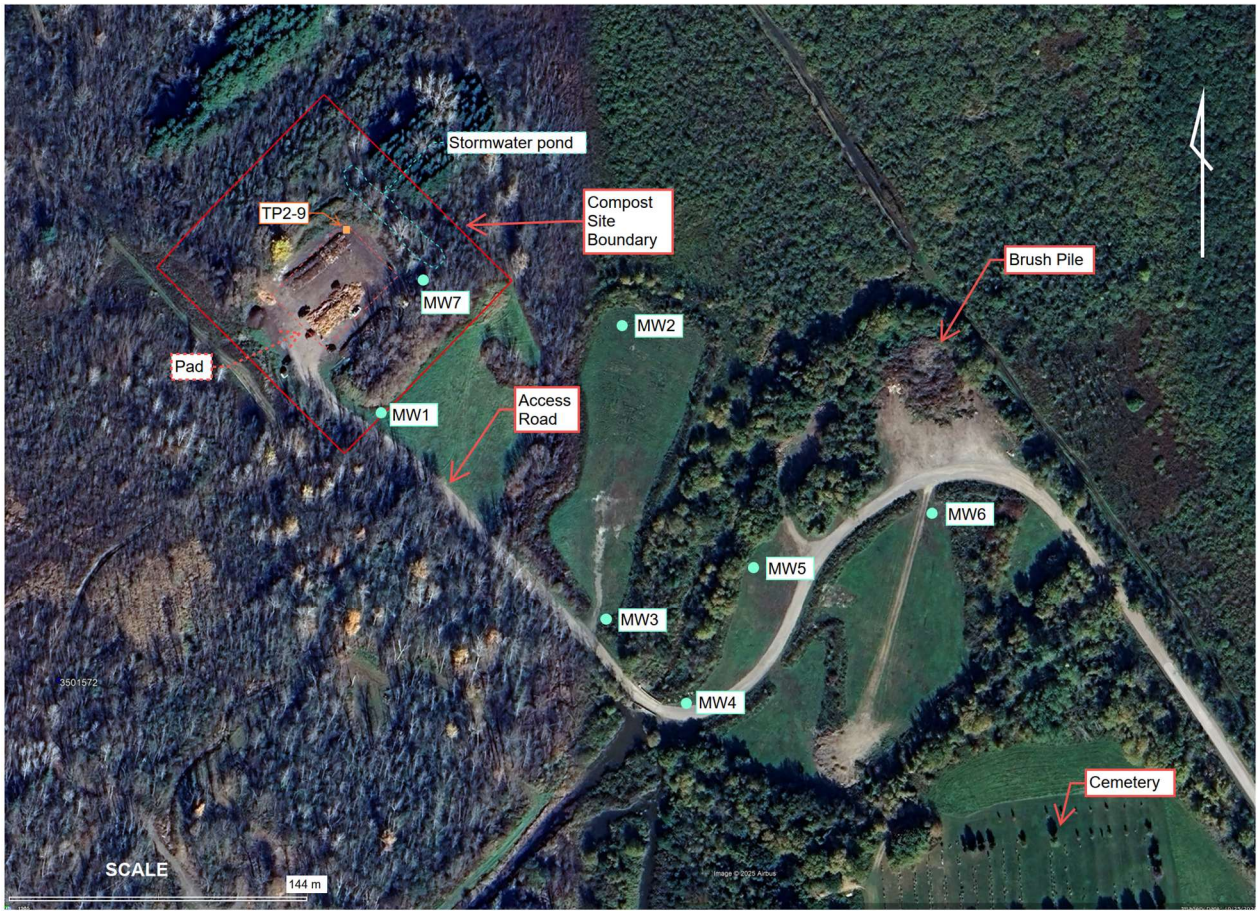
- North Elmsley, Ontario. The Compost Site has an area of 1.5 hectares. A Plan of Survey by Callon Dietz Group (2025) is included in Attachment A. The site occurs within the County of Lanark and falls under the jurisdiction of the Rideau Valley Conservation Authority (RVCA).

2.1 Compost Site

The Compost Site includes a cleared area (approximately 80 m by 70 m) with a gravel pad (approximately 60 m by 40 m). The gravel pad was installed in 1993 and consists of a 0.3 m thick layer of compacted Granular B gravel overlain by 0.1 m thick layer of compacted stone dust. The Compost Site is accessed by a roadway (gravel and tarmac). The areas surrounding the clearing are forested. The site layout is indicated in Figure 2. Access to the site is controlled by a gate at Highway 43 that is locked when the site is not in operation. A stormwater management pond is located to the immediate northeast of the clearing/pad area.

Cleared areas to the southeast of the Compost Site were previously used for snow storage. This activity ended in 2023.

Figure 2: Site Layout



The Smiths Falls Compost Site receives leaf and garden waste from the residents of Smiths Falls and Drummond - North Elmsley Township. Brush and trees are deposited at a cleared area that is approximately 200 m east of the Compost Site (see Figure 2). Leaf and garden waste is handled, stored and processed at the Compost Site. A loader is used to handle the leaf and garden waste. Machinery and equipment is stored, serviced and refueled at offsite locations. The leaf and garden waste are screened onsite by local contractors. The screening process is monitored by Town of Smiths Falls staff to ensure the equipment is in good working condition and is properly maintained. The screened compost is sampled and tested by the Town of Smiths Falls. Approved compost is used by Town of Smiths Falls staff, Town of Smiths Falls Parks department, and residents of Smiths Falls and Drummond - North Elmsley Township.

Excess screened materials are removed from the site and deposited at a local waste transfer station (Glenview Iron and Metal Ltd. (GIM) at 3954 Highway 43 West, Smiths Falls, ON, K7A 5A5).

In Ontario, a compost site is a waste disposal site and requires an Environmental Compliance Approval (ECA) under Ontario Regulation 347.

2.2 Zoning

Zoning at the Compost Site is 'Waste Disposal'. The surrounding lands are zoned 'Institutional'. Hillcrest Cemetery occurs to the south of the Compost Site and is owned by the Town of Smiths Falls. Zoning information for the site and surrounding areas is included in Attachment B (Drummond - North Elmsley Zoning Map).

2.3 Land Use

Land use at the site includes compost handling and processing. There is no agricultural or livestock related use. Surrounding land uses within 700 m of the Compost Site includes:

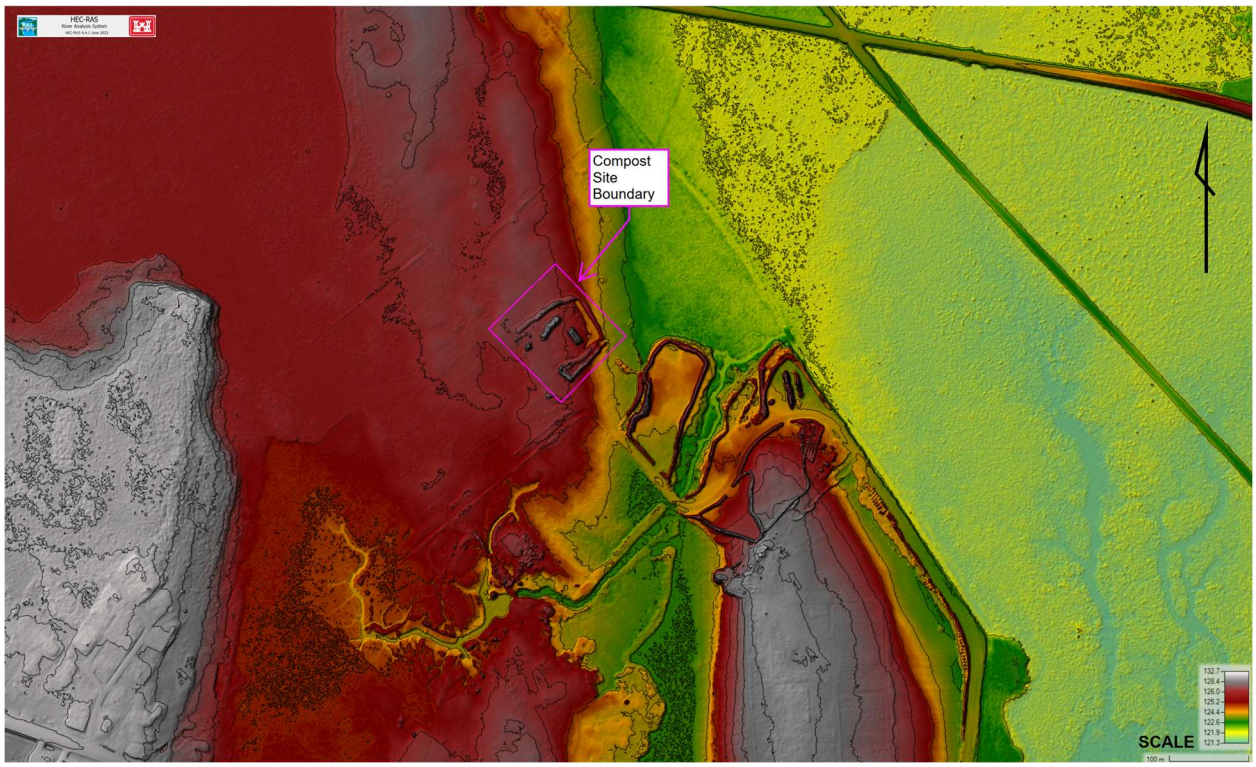
- North:
  - Forest / undeveloped land
  - Agricultural land (grazing / crops)
  - Carroll Road
  - Railway line
  - Wetlands
- East:
  - Forest / undeveloped land
  - Wetlands
  - Carroll Road
  - Site access roadway
- West:
  - Forest / undeveloped land
  - Wetland
  - Residential properties (north of Highway 43)

- South:
  - Forest / undeveloped land
  - Wetland
  - Residential properties
  - Hillcrest Cemetery
  - Commercial use (storage locker facility)

2.4 Topography

The site and surrounding areas are undulating. Onsite elevations range from approximately 128.6 m asl (at the top of berms to the north and south of the compost site cleared area) to approximately 123.4 m asl (at the eastern corner of the Compost Site). An analysis of the terrain at the site was conducted using 'laser imaging, detection, and ranging' (LIDAR) data. Digital terrain model data was obtained from the Government of Canada Open Maps website (Government of Canada, 2025). A colour shaded digital terrain model image of the site and surrounding areas is provided in Figure 3.

Figure 3: Topography – Colour shaded LIDAR DTM



2.5 Hydrology

The site occurs in the Edmonds Dam - Rideau River Watershed. Onsite drainage is by infiltration and overland flow to the east towards eastern portion of The Swale Wetland which is a provincial significant wetland (PSW). The Swale Wetland occurs to the east and west of the site. The western portion of The Swale Wetland drains to the east via an unnamed creek that occurs approximately 190 m to the southeast

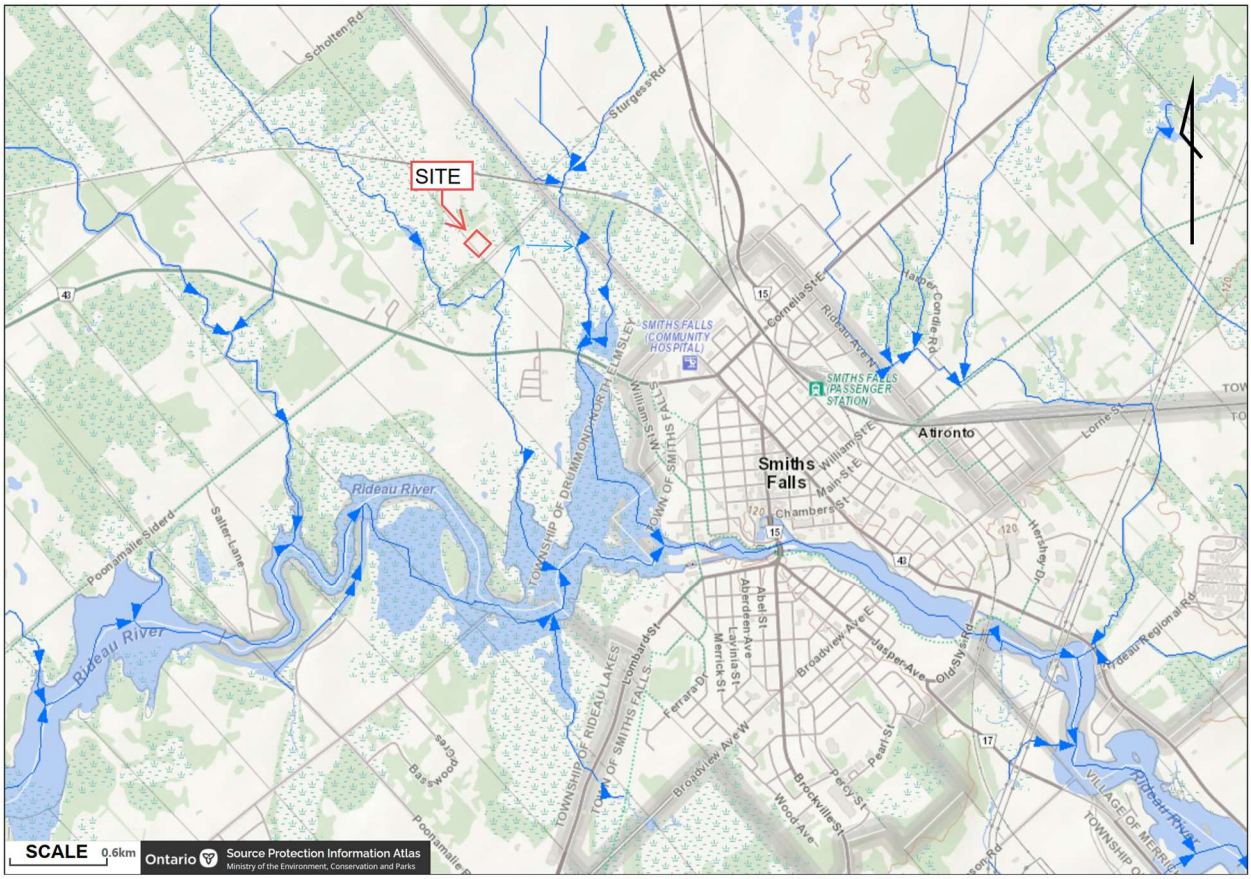
of the Compost Site. Wetlands and boundaries from the RVCA online geographic information system (GIS) are shown in Figure 4 (RVCA Geoportal, 2025). Areas of unregulated wetland occur at the margins of the PSW. Parts of the unregulated wetlands extend onto the eastern and southern corners of the site. The closest surface water feature is The Swale Wetland. At its closest point, the PSW portion of The Swale Wetland is approximately 35 m south of the southern corner of the site. Regulation setback boundaries associated with The Swale Wetland are all outside of the Compost Site boundary. Drainage directions at the site are indicated in Figure 4.

It is noted that the Compost Site is in an intake protection zone (IPZ-3 with a score of 8 – see Section 5). The intake for the Town of Smiths Falls water supply system is located at the Rideau River at a point that is approximately 2.3 km southeast of the site.

Figure 4: RVCA GeoPortal - Wetlands and Regulation Boundaries

Surface water flow directions of creeks and rivers in the areas surrounding the site are indicated on Figure 5. The Swale Wetland drains to the south towards the Rideau River at a point which is approximately 1.6 km southeast of the site.

Figure 5: Surface Water Drainage



3 METHODOLOGY

3.1 Pre-Consultation

A pre-consultation meeting with RVCA was conducted on July 2, 2025. RLC-HydroG presented the scope of work for the hydrogeological assessment including: a desktop analysis of geoscience and hydrology information; site traverse and observation of surrounding areas and surface water features; groundwater elevation monitoring; survey of well reference elevations; the integration of findings from recent drilling and installation of monitoring wells; and recent groundwater sampling by SLT. RCVA appreciated the opportunity to comment on the hydrogeological assessment and provided clarification regarding the suitability of the site with respect to the Mississippi Rideau Source Protection Plan (2014 as amended) (see Section 5 for further details).

3.2 Background Information

A review of available background information was conducted including:

- MECP water well records.
- MECP permit to take water (PTTW) database.
- Topographic data.
- RVCA online geographic information system (GIS).
- Ontario Geological Survey (OGS) databases.
- The Ontario Source Protection Atlas.
- Previous site investigation reports by SLT including:
- SLT, 2024a. Proposed Snow Dump Site, Smiths Falls, ON, Environmental Soil Assessment, Report No.24C049 (March 19, 2024).
- SLT, 2024b. Smiths Fall Compost Site, Smiths Falls, ON, Environmental Soil Assessment, Report No.24C265 (December 30, 2024).
- SLT, 2025a. Smiths Fall Compost Site, Smiths Falls, ON, Creek Water Assessment, Report No.25C050 (April 4, 2025).
- SLT, 2025b. Property Located at the Smiths Falls Compost Site, 3514 Lanark County Road 43, Smiths Falls, ON, Environmental Assessment, Report 25C163 (July 4, 2025).

3.3 Test Pits

Five (5) shallow test pits (TP1-1 to TP1-5) were excavated to the southeast of the Compost Site by SLT on March 7, 2024 (SLT, 2024a). None of the test pits were excavated at the Compost Site.

Ten (10) test pits (TP2-1 to TP2-10) were excavated by SLT on December 12, 2024 (SLT, 2024b). Most of the test pits were located to the southeast of the Compost Site. One test pit (TP2-9) was located at the Compost Site. The location of TP2-9 is indicated in Figure 2. Soil samples were submitted to the Bureau Veritas Mississauga laboratory for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum hydrocarbons (PHCs, F1 to F4), metals, inorganics, and polycyclic aromatic hydrocarbons (PAHs).

3.4 Boreholes and Monitoring Wells

Seven (7) boreholes were drilled at the site by Eastern Ontario Diamond Drilling under the supervision of SLT on June 24 and 25, 2025. Two boreholes are located at the Compost Site (BH1 and BH7) and one borehole is located between the Compost Site and the nearby unnamed creek (MW2). All boreholes were drilled to refusal. A summary and discussion of the drilling and stratigraphy are included in Section 6.1 of this report. Soil samples were submitted to the Bureau Veritas Mississauga laboratory for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum hydrocarbons (PHCs, F1 to F4), metals (including chromium XI, and mercury), and polycyclic aromatic hydrocarbons (PAHs).

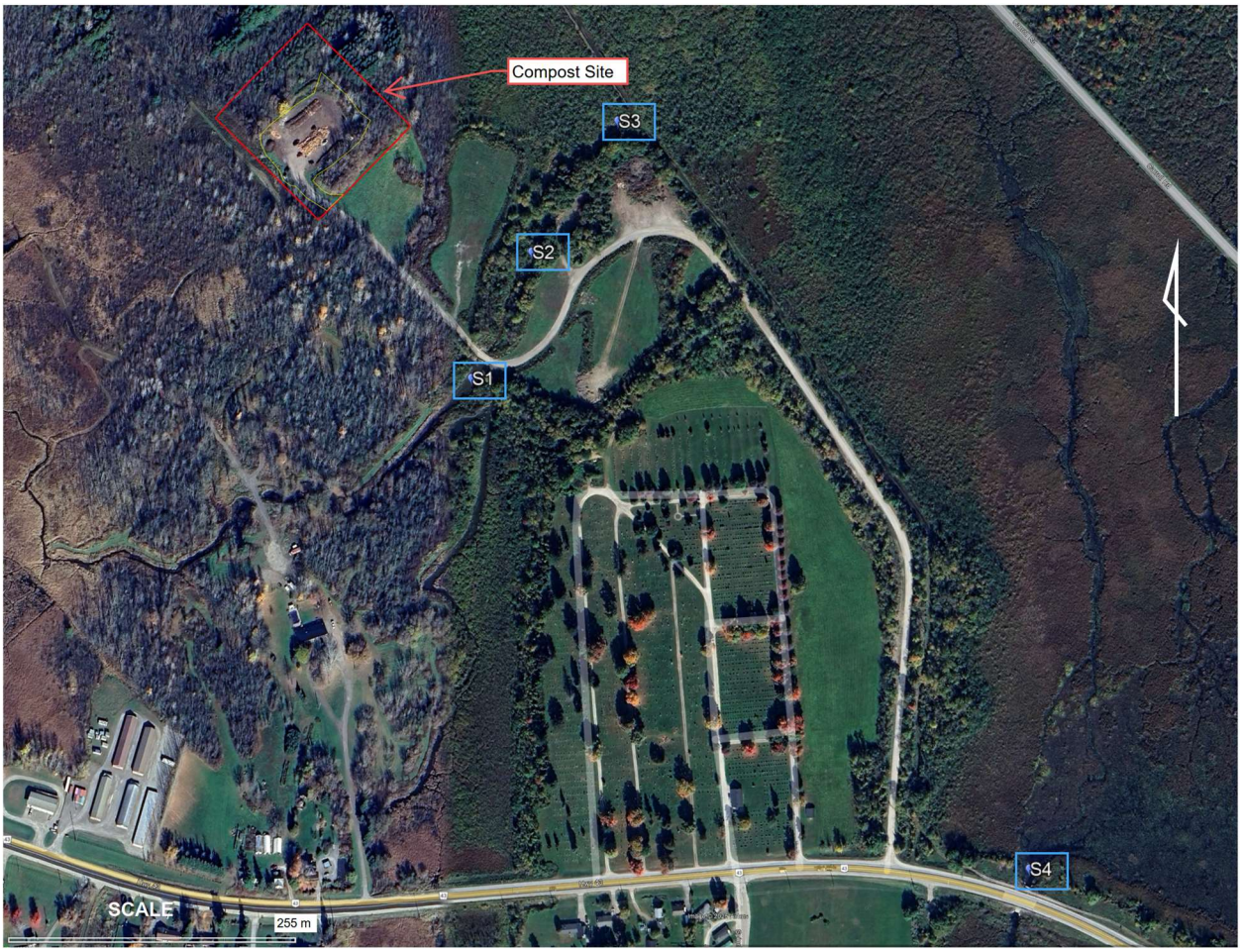
Monitoring wells were installed at all seven (7) borehole locations (MW1 to MW7). Monitoring well locations are indicated in Figure 2. Protective casings were installed at all monitoring wells except for MW5.

3.5 Surface Water Sampling

Four (4) surface water samples (S1 to S4) were collected in locations to the southeast of the Compost Site by Town of Smiths Falls staff on March 25, 2025 (SLT, 2025a). Surface water sample locations are indicated in Figure 6. Findings of the surface water sampling program are presented in Section 6.2 of this report.

The surface water samples were submitted to the Bureau Veritas Mississauga laboratory for analysis of BTEX, PHCs (F1 to F4), metals (including chromium XI, and mercury), and PAHs.

Figure 6: Surface Water Sampling Locations



3.6 Elevation Survey

A survey of monitoring well reference elevations was conducted by RLC-HydroG on June 27, 2025. Ground surface (GS), top of riser (TOR), and top of protective casing (TOC) elevations were surveyed at seven (7) monitoring well locations using a Topcon RL-H5B laser level. Elevation control points s for the survey were established using LIDAR data from the Canada Open Maps website. Three LIDAR control points were used to enhance survey accuracy . Elevation survey data is provided in Attachment C.

3.7 Groundwater Elevation Monitoring

Groundwater elevation monitoring was conducted by RLC-HydroG on June 27, 2025. The depth to water at each monitoring well was measured using an electronic water level tape. Groundwater elevation data is summarized and discussed in Section 5 of this report.

3.8 Groundwater Sampling

SLT conducted groundwater sampling at six monitoring wells (MW1, MW2, MW3, MW4, MW6, and MW7) on June 26, 2025 (SLT, 2025b). Dedicated 5/8 inch (16 mm) tubing and inertial lift foot valves were installed at each monitoring well location. The available water column at MW5 was insufficient for sampling. Each well was purged prior to sampling by removal of three well bore volumes.

Samples were collected in laboratory prepared bottles with preservatives. Samples were delivered to the Bureau Veritas Mississauga laboratory for analysis of BTEX, PHCs (F1 to F4), metals (including chromium XI, and mercury), and PAHs. Overburden groundwater quality results are summarized and discussed in Section 6.3 of this report.

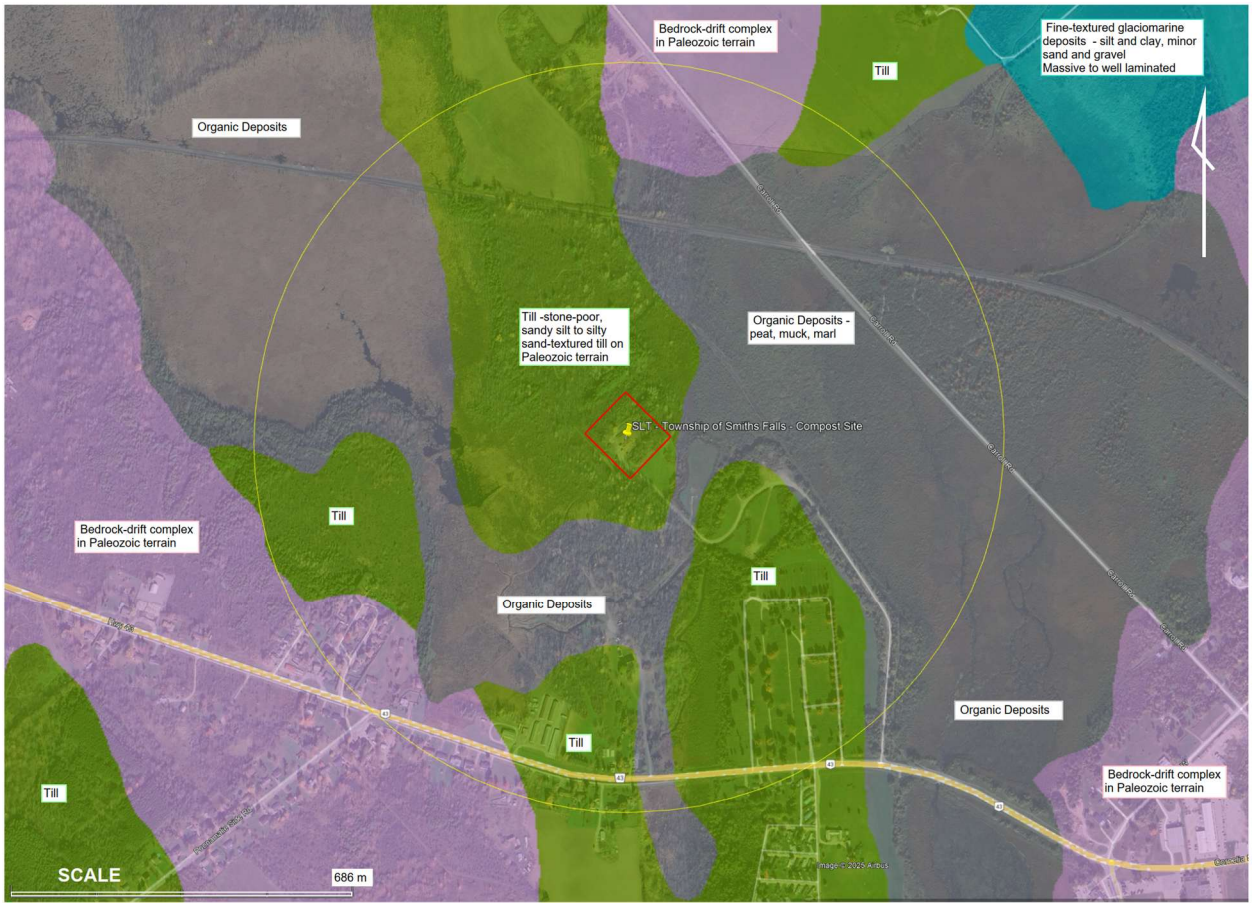
4 GEOLOGY

4.1 Surficial Geology

Surficial geology information from the Ontario Geological Survey (OGS) was obtained from the OGS Earth website (OGS, 2025). The database indicates the site is in an area of till (stone-poor, sandy silt to silty sand) on Paleozoic terrain. The Compost Site occurs in an area of till which extends to the north of the site. This till area is surrounded by organic deposits (peat, muck, marl) associated with the nearby wetlands. Areas of till occur to the south of the site (at the cemetery, and at the storage facility and north of Saumure Circle), and thin drift occurs at Saumure Circle. Surficial geology at the site and surrounding areas is shown in Figure 7.

These descriptions are generally consistent with the findings of the water well records search, test pitting, and recent boreholes by SLT.

Figure 7: Surficial Geology



4.2 Terrain Analysis

Seven boreholes (BH1 to BH7) were drilled on and near the Compost Site on June 24 and 25, 2025. The locations of the monitoring wells that were installed at each borehole location are indicated in Figure 2. Borehole stratigraphy and observations are summarized in graphical logs provided by SLT (see Attachment D). The boreholes were drilled to provide confirmation of soil conditions in the overburden unit. A summary of borehole information is provided in Table 1.

Table 1: Borehole Stratigraphy and Well Screen Intervals

BH1	Description
0.00 to 4.03 m	Moist, brown, loose SILTY SAND - gravelly and compact below 0.9 m / very moist and dense below 2.4 m / most and dense below 3.0 m
	Auger hole terminated at refusal at 4.03 m
	A monitoring well was installed (**MW1**) with well screen from 0.91 to 4.03 m bgs

BH2	Description
0.00 to 0.77 m	TOPSOIL
0.77 to 2.44 m	Moist, brown, dense SILTY SAND with gravel / loose below 1..5 m / dense below 2.3 m
	Auger hole terminated at refusal at 2.44 m
	A monitoring well was installed (**MW2**) with well screen from 0.91 to 2.44 m bgs

BH3	Description
0.00 to 0.75 m	TOPSOIL
0.75 to 4.37 m	Moist, brown, loose SILTY SAND / becoming compact below 0.8 m with silt zone and gravelly / moist and dense below 2.3 m
	Auger hole terminated at refusal at 4.37 m
	A monitoring well was installed (**MW3**) with well screen from 0.91 to 4.37 m bgs

BH4	Description
0.00 to 1.25 m	TOPSOIL
1.25 to 1.98 m	Moist, brown, loose SILT & SAND with clay
1.98 to 4.29 m	Moist, brown, compact SILTY SAND / becoming brown grey, very moist
	Auger hole terminated at refusal at 4.29 m
	A monitoring well was installed (**MW4**) with well screen from 0.91 to 4.29 m bgs

BH5	Description
0.00 to 0.61 m	TOPSOIL with gravel
0.61 to 2.64 m	Moist, black then brown, compact SILTY SAND with gravel / black from 1.5 to 1.8 m / very moist and dense below 2.4 m
	Auger hole terminated at refusal at 2.64 m
	A monitoring well was installed (**MW5**) with well screen from 0.91 to 2.64 m bgs

BH6	Description
0.00 to 3.07 m	Moist, black, compact SILT & SAND / with no gravel from 0.8 to 2.1 m / brown and loose below 0.8 m / becoming compact with gravel below 2.3 m
	Auger hole terminated at refusal at 3.07 m
	A monitoring well was installed (**MW6**) with well screen from 0.91 to 3.07 m bgs

BH7	Description
0.00 to 0.18 m	TOPSOIL
0.18 to 2.36 m	Moist, brown, compact SILTY SAND / with gravel below 1.5 m
	Auger hole terminated at refusal at 2.36 m
	A monitoring well was installed (**MW7**) with well screen from 0.91 to 2.36 m bgs

In general, the overburden at the site includes a discontinuous thin layer of topsoil (at BH2, BH3, BH4, BH5, and BH7) underlain by 'silty sand' or 'silt and sand'. Refusal was encountered at depths from 2.36 m (at BH7) to 4.37 m (at BH3) which is assumed to be at fractured bedrock.

4.3 Bedrock Geology

Geological mapping information from the OGS Earth website (OGS, 2024) shows that the site is located in an area where the Lower Ordovician March Formation is the uppermost bedrock unit. The March formation occurs at the bottom of the Beekmantown Group. The bedrock lithology is described as sandstone, dolomitic sandstone, and dolostone. The site is not located in an area of known, inferred, or potential karst.

5 HYDROGEOLOGY

An unconfined water table was encountered in the overburden unit. Drainage and infiltration within the overburden unit is expected to be influenced by topography. Groundwater elevations at seven monitoring (MW1 to MW7) wells are shown in Figure 8. Overburden groundwater flow is inferred to be to the east at the Compost Site, towards unregulated wetlands and The Swale Wetland. To the southeast of the unnamed creek overburden groundwater flow is inferred to be to the northwest toward the unnamed creek. The overburden unit is not used as a water supply aquifer in the area, so the 'first receiving aquifer' is the bedrock aquifer.

On June 27, 2025 the depth to groundwater at the Compost Site monitoring wells was 1.49 m below ground surface (bgs) at MW1 and 0.92 m bgs at MW7. A summary of monitoring well information and groundwater elevations is provided in Table 2.

Table 2: Overburden Groundwater Elevations (June 27, 2025)

Monitoring Well ID	Ground Surface Elevation (m asl)	Stickup (m)	Top of Riser Reference Elevation (m asl)	Well Depth (m bgs)	27-Jun-25	
					Depth to Water (m btor)	Water Level Elevation (m asl)
MW1	125.83	1.02	126.85	5.11	2.51	124.34
MW2	124.21	0.76	124.97	3.19	2.38	122.59
MW3	123.70	0.99	124.69	5.12	1.80	122.89
MW4	123.88	0.96	124.84	5.28	1.97	122.87
MW5	124.86	1.02	125.88	3.65	3.34	122.54
MW6	124.86	1.06	125.92	4.13	3.15	122.77
MW7	124.85	1.13	125.97	3.50	2.04	123.93
m asl = metres above sea level						
m btor = metres below top of riser			m bgs = metres beloww ground surface			

Figure 8: Overburden Groundwater Elevations (June 27, 2025) and Flow Directions

The primary water supply aquifer in the area occurs within the horizontally bedded carbonaceous sedimentary bedrock. The bedrock aquifer has water bearing fracture zones (i.e., horizontal bedding plane fractures) that occur between sedimentary layers of bedrock. Permeability is controlled by fractures. The primary porosity (i.e. the 'primary fracture network') is associated with the horizontal bedding plane fractures. A secondary porosity is associated with subvertical fracturing.

On a regional scale recharge to the bedrock aquifer is by infiltration in low lying areas, and discharge is to lakes, rivers, and streams. At the site, the direction of groundwater flow in the upper fractured bedrock unit is assumed to be to the to the south towards the Rideau River. The direction of groundwater flow in the deep bedrock unit is also assumed to be to the to the south (towards the St Lawrence River).

Information from the Ontario Source Protection Atlas, (MECP, 2025) provides the following information:

- The site is not located within a wellhead protection area (WHPA). It is noted that the Compost Site is approximately 1.3 km southwest of the Kemptville WHPA.
- The site is located within an intake protection zone (IPZ-3 with score of 8).
- The site is not within an issue contributing area (ICA).
- The site is not within a significant groundwater recharge area (SGRA).
- The site is in an area where a highly vulnerable aquifer occurs (HVA with a score of 6).

The Mississippi Rideau Source Water Protection Plan (MVCA and RVCA, 2014 as revised) includes specific requirements associated with the ranking IPZ-3 with score of 8. A map showing the Smiths Falls IPZ is included in Attachment E. RVCA confirmed during pre-consultation that the Mississippi Rideau Source Protection Plan does not prohibit waste disposal site activities within the IPZ unless there is a threat associated with transfer processing of hazardous waste and/or liquid industrial waste.

The Town of Smiths Falls Comprehensive Zoning By-law (2022) indicates that a waste disposal site is prohibited in the 'IPZ-8' zone unless is has been *"demonstrated to the satisfaction of the Corporation and/or RMO that the Use does not represent a significant threat to drinking water."* The findings of this report show that there is no significant threat to drinking water as impacts to soil and overburden groundwater are limited and localised, and the source of potable groundwater in the area (the bedrock aquifer) is unlikely to be adversely affected by the Compost Site.

5.1 Water Well Records

A review of the MECP Water Well Information System database (WWIS - MECP, 2025) was conducted. 27 water well records were identified within an approximately 700 m radius of the site. Individual well records are provided in Attachment F. The well record locations are shown in Figure 9. Please note that the well record locations are based on MECP database coordinates which are subject to varying degrees of error. A summary of relevant information from the water well records is provided in Table 3.

All of the records are for drilled wells completed in the bedrock aquifer. The wells range in depth from 11 to 50 m and have an average depth of 32 m. 21 of the well records indicate fresh water was encountered. Three of the records indicate the water was not tested.

25 of the well records have indications that an adequate quantity of water (for a four-bedroom residence) is available based on yield testing conducted at the time of drilling (i.e. yields of 18 L/min or greater). Two well records indicate the yield was marginal (<16 L/min). Taken collectively the well record information shows that the drilled wells in the area can provide a suitable water supply.

Figure 9: Water Well Records

A review of the MECP Permit to Take Water (PTTW) database was carried out within a 5 km radius of the site. PTTW information was obtained from the MECP online GIS system (MECP, 2025). One PTTW was identified. PTTW #5545-9FUPKX is held by the Town of Smiths Falls for 'municipal water supply' and permits taking of up to 18,100,000 L/day of surface water. No other water taking permits were identified in the search area.

Table 3: Water Well Records Summary

WELL RECORDS SUMMARY									
Well Record Number	Year Drilled	Depth to Bedrock (m)	Overburden Material	Total Depth (m)	Casing Depth (m)	Depth to Water Bearing Zone(s) (m)	Static Water Level (m)	Recommended Pumping Rate (L/min)	Comments
3501528	1961	5.5	clay	24.4	6.7	12.2 / 23.8	3.0	23	fresh
3501530	1951	1.5	soil	15.5	1.5	15.2	6.1	15	fresh
3501531	1957	6.1	clay and gravel	45.7	7.9	43.3 - 45.7	0.9	23	fresh
3501534	1956	4.9	old well	14.6	1.2	12.2 - 14.6	5.5	23	fresh
3501535	1962	0.6	earth	11.6	4.6	9.1	5.5	18	fresh
3501570	1957	0.0	bedrock at surface	11.3	2.4	10.7	5.5	68	fresh
3501572	1962	0.9	sandy loam	39.3	5.5	39.3	5.5	27	fresh
3502306	1968	0.0	bedrock at surface	38.1	?	38.1	2.1	45	
3502360	1968	0.6	sand and fill	22.9	6.4	22.3	5.5	27	fresh
3502529	1969	0.0	bedrock at surface	21.9	7.9	20.1	2.4	45	fresh
3502774	1970	1.2	soil	26.2	7.6	24.4	7.9	23	
3502775	1970	1.2	soil	22.3	7.6	21.3	9.1	23	fresh
3502776	1970	0.9	soil	18.3	7.6	16.8	7.9	23	fresh
3502849	1971	0.6	soil	25.3	7.6		10.7	23	
3503752	1974	4.3	clay and gravel	41.5	7.6	10.7 / 27.4 / 40.5	0.6	45	fresh
3504372	1976	1.2	soil and stones	48.2	7.6	46.6	6.1	27	fresh
3504376	1976	0.9	fill	41.8	7.6	40.2	4.6	91	fresh
3504601	1976	0.6	sand and fill	30.5	7.6	25.0	5.5	9	fresh
3504698	1977	0.6	soil	37.8	7.6	36.0	9.1	36	fresh
3505025	1978	3.4	clay	43.9	6.7	41.8	3.0	41	fresh
3505040	1978	0.0	bedrock at surface	39.3	6.1	38.1	3.0	23	fresh
3505850	1980	?	old well	34.1	?	33.5	6.1	23	fresh
3506496	1982	0.0	bedrock at surface	34.7	6.1	34.1	6.1	23	fresh
3508204	1987	4.3	clay and stones / gravel	21.3	6.7	19.8	0.6	91	fresh
3509649	1990	8.5	clay and gravel	48.2	10.1	44.2 / 46.3	2.4	55	fresh
3513519	2001	1.5	sandy soil	50.3	6.7	49.1	12.8	455	not tested
3513956	2002	0.6	rocky earth	43.0	6.7	41.5	7.6	227	not tested
7378471	2020	1.5	sand	45.1	6.7	42.1	5.2	91	not tested

5.2 Closest Water Supply Wells

The section of Highway 43 to the west of William Street West is not serviced by a municipal water supply system, so all properties in the study area (~700 m radius around the site) are assumed to be serviced by private drilled wells and individual wastewater treatment systems. All of the well records in the study area indicate drilled wells with casing that extends into bedrock.

The closest water supply well is at 3618 Highway 43 (see Figure 9). A well record corresponding to this location was not identified by the well records search. The configuration of the well is not known. This well is approximately 350-400 m south of the Compost Site and is located to the south of the unnamed creek that connects the western and eastern portions of The Swale Wetland. No significant impacts to the 3618 Highway 43 well are anticipated from activities at the Compost Site. The well is located to the south of a hydraulic boundary (the unnamed creek) with respect to the overburden unit. The direction of

overburden groundwater flow at the 3618 Highway 43 development envelope is assumed to be to the north based on topographic data. The direction of flow in the upper bedrock aquifer is assumed to the to the south towards the Rideau River. The risk of impacts to the 3618 Highway 43 well from the Compost Site is low if the well is a drilled well accessing the bedrock aquifer and has casing that extends several metres into the bedrock unit. Further investigation of the configuration of the 3618 Highway 43 well is warranted.

The next closest water supply well appears to be the well at 114 Saumure Circle (well record #3504601). This well is approximately 560 m west-southwest of the site and is located to the west of the eastern portion of The Swale Wetland. The well has steel casing extending approximately 7 m into the bedrock unit. No impacts to the well are anticipated from activities at the Compost Site.

The closest water supply well to the north of the site (#3508204) is approximately 860 m north of the Compost Site. The well has steel casing extending approximately 2.4 m into the bedrock unit No impacts to the well are anticipated from activities at the Compost Site, and the risk of impacts is considered to be extremely low.

5.3 Potential Sources of Contamination

For compost sites that accept only leaf and yard waste (in paper bags), the risk of contamination is relatively low. Potential contaminants include:

- Nutrients (nitrate, ammonia, phosphorus, and potassium).
- Organics (dissolved organic carbon (DOC)).
- Trace metals (typically iron, manganese, copper, and zinc).
- Debris including plastics, paint chips, pressure-treated wood, dyed mulch (phthalates, phenols, metals, chromated copper arsenate).
- Vehicular traffic and machinery use at the site including a loader, and contractor screening equipment (BTEX, and PHCs). All vehicles and machinery are stored, refueled, and serviced offsite.

The site is used during summer months only, so no road salt use is indicated.

5.4 Hydrogeological Sensitivity

The site is not within an area of ‘known, potential, or inferred karst’ as determined by the OGS Karst map layer (OGS, 2025).

The water well records show that the overburden thickness within approximately 700 m of the subject property varies from 0 to 8.5 m and has an average thickness of 1.9 m. The overburden material is described in well records as sand, clay, gravel, rocks/stones, and fill.

Recent drilling by SLT at seven (7) boreholes included two boreholes that was drilled at the Compost Site (BH1 and BH7). The boreholes encountered silty sand to a depth of 4.03 m at BH1, and a depth of 2.36 m at BH7.

Based on an overburden thickness of less than 2 m, the subject site is considered to be hydrogeologically sensitive due to the presence of thin permeable soils.

5.5 Water Budget

A water budget describes the relationship between the inputs and outputs of a water system. The water budget is defined as:

$$P = E + I + R + \Delta S$$

Where:

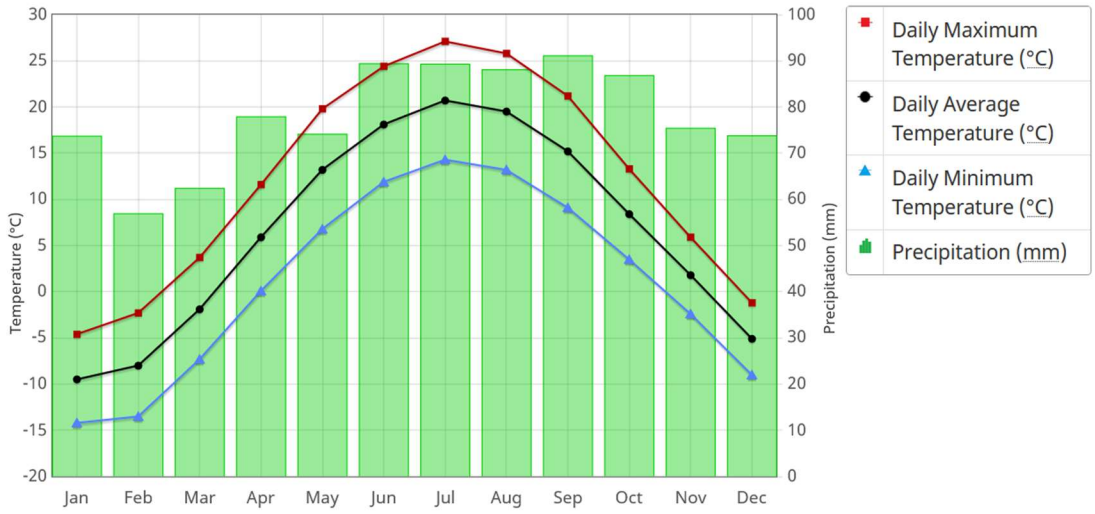
P = total precipitation
E = evaporation
I = infiltration
R = runoff
ΔS = change in storage.

Precipitation and Temperature

The Drummond Centre Climate Station is located approximately 21 km northwest of the site. Temperature and precipitation 'Normals' for the period from 1981 to 2020 are presented in Figure 10 (Environment Canada, 2025).

The precipitation and temperature patterns affect overburden groundwater elevations and storage, surface water levels and flow, and vegetation growth.

Figure 10: Drummond Centre Temperature and Precipitation (1981 to 2020)



Evaporation and Water Surplus

For this study output from an Environment Canada Engineering Climate Services water balance model was used. The model is described in an Environment Canada information sheet by K. Johnstone and P.Y.T. Louie titled 'Water Balance Tabulations for Canadian Climate Stations. Hydrometeorology Division, Canadian Climate Centre, Atmospheric Environment Service'. The model is based on the methodology of Thornthwaite and Mather (1957) with Canada specific modifications and uses decades of meteorological

data from the nearest weather station up to 2023. The Environment Canada water balance output sheet that was used for this report is provided in Table 4.

Table 4: Environment Canada Climatic Water Balance Model – Drummond Centre

Drummond Centre WATER BUDGET MEANS FOR THE PERIOD 1985-2023 DC20492

LAT.... 44.85 WATER HOLDING CAPACITY... 75 MM HEAT INDEX... 36.54
LONG... 78.13 LOWER ZONE..... 45 MM A..... 1.077

DATE	TEMP (C)	PCPN	RAIN	MELT	PE	AE	DEF	SURP	SNOW	SOIL	ACC P
31- 1	-9.2	69	18	23	1	1	0	41	58	74	304
28- 2	-8.0	57	16	30	1	1	0	44	70	75	360
31- 3	-1.9	61	33	77	8	8	0	102	21	75	420
30- 4	6.1	77	72	26	33	33	0	66	0	74	498
31- 5	13.3	75	75	0	81	81	0	10	0	58	574
30- 6	18.0	95	95	0	114	105	-9	10	0	38	670
31- 7	20.5	90	90	0	133	108	-25	2	0	17	760
31- 8	19.4	85	85	0	116	84	-32	2	0	17	846
30- 9	15.0	89	89	0	76	71	-6	5	0	31	935
31-10	8.4	86	85	1	37	37	0	17	0	62	86
30-11	1.6	74	59	11	11	11	0	47	5	74	160
31-12	-5.3	73	29	19	2	2	0	44	31	75	234
AVE	6.5 TTL	930	746	187	613	542	-72	390			

Drummond Centre STANDARD DEVIATIONS FOR THE PERIOD 1985-2023 DC20492

DATE	TEMP (C)	PCPN	RAIN	MELT	PE	AE	DEF	SURP	SNOW	SOIL	ACC P
31- 1	3.1	26	23	23	1	1	0	38	31	5	51
28- 2	2.7	21	15	25	1	1	0	33	43	0	59
31- 3	2.4	28	22	32	5	5	0	36	42	0	67
30- 4	1.6	40	39	43	8	8	0	55	0	4	88
31- 5	1.6	30	30	0	10	10	0	17	0	22	98
30- 6	1.2	46	46	0	8	19	20	23	0	31	115
31- 7	1.3	37	37	0	9	30	33	8	0	23	126
31- 8	1.2	45	45	0	8	28	31	9	0	26	140
30- 9	1.4	41	41	0	8	13	12	17	0	27	133
31-10	1.5	34	35	4	7	7	1	26	0	19	34
30-11	1.8	28	27	10	4	4	0	33	9	6	47
31-12	3.1	26	21	15	2	2	0	26	29	0	46

The Environment Canada Water Balance model indicates:

- Total annual precipitation (PCPN) 930 mm/year
- Potential evaporation (PE) 613 mm/year
- Water surplus (SURP) 390 mm/year

Infiltration and Runoff

An infiltration factor was calculated using MECP guidelines (MOEE, 1995 and MOE, 2008). The infiltration factor is the sum of topographic, soil, and cover (i.e. vegetation) factors. The site occurs within an undulating terrain so a topographic infiltration factor of 0.2 is applicable. Undisturbed soil at the site includes a 2.4 to 4 m layer of silty sand. A soil infiltration factor of 0.4 (open sandy loam) is applicable. 60% of the compost site is cleared and the rest of the site is forested. A cover (i.e. vegetation) infiltration factor of 0.14 was calculated. The combined infiltration factor (topography + soil + cover) is 0.74.

Infiltration is calculated by multiplying the combined infiltration factor by the water surplus. The available infiltration at the site is estimated to be 288.6 mm/year.

As discussed in Section 2.5 (Hydrology) drainage at the site is by infiltration and runoff to the onsite stormwater pond. Runoff typically occurs during the spring melt season and immediately after high rainfall events.

Storage is assumed to be stable. Runoff is calculated by subtracting evapotranspiration and infiltration from total precipitation. The water budget for pre and post-development conditions at the site is provided in Table 5.

Table 5: Water Budget (Pre- and Post Development)

Pre-Development Conditions		
Site		
Area of Compost Site	15,000	square metres
	1.50	hectares
Precipitation		
Total Precipitation (DRUMMOND CENTRE)	930	mm/year
	0.93	m/year
Volume of precipitation	13,950	cubic metres/year
Evaporation		
Potential Evapotranspiration (PE)	613.0	mm/yr
	0.613	m/year
	9,195	cubic metres / year
Water Surplus		
Water Holding Capacity	75	mm
EC Water Surplus (DRUMMOND CENTRE - 1985-2023)	390	mm/year
Water Surplus	0.39	m/year
Infiltration		
Infiltration Factors		
Topography	0.2	undulating
Soil	0.4	sand
Area of woodland	5,700	square metres
Area of cleared land	9,300	square metres
woodland	0.2	100%
cleared	0.1	0%
Cover	0.20	woodland
Total	**0.80**	
Factored Water Surplus (water available for infiltration)	312.0	mm/yr
	0.312	m/year
	4,680	cubic metres / year
Runoff	5.0	mm/yr
	0.005	m/year
	75	cubic metres / year

Post-Development Conditions		
Site		
Area of Compost Site	15,000	square metres
	1.50	hectares
Precipitation		
Total Precipitation (DRUMMOND CENTRE)	930	mm/year
	0.93	m/year
Volume of precipitation	13,950	cubic metres/year
Evaporation		
Potential Evapotranspiration (PE)	613.0	mm/yr
	0.613	m/year
	9,195	cubic metres / year
Water Surplus		
Water Holding Capacity	75	mm
EC Water Surplus (DRUMMOND CENTRE - 1985-2023)	390	mm/year
Water Surplus	0.39	m/year
Infiltration		
Infiltration Factors		
Topography	0.2	undulating
Soil	0.2	sand / compacted gravel
Area of woodland	5,700	square metres
Area of cleared land	9,300	square metres
woodland	0.2	40%
cleared	0.1	60%
Cover	0.14	woodland and cleared
Total	**0.54**	
Factored Water Surplus (water available for infiltration)	210.6	mm/yr
	0.211	m/year
	3,159	cubic metres / year
Runoff	106.4	mm/yr
	0.106	m/year
	1,596	cubic metres / year

The water budget analysis shows that runoff associated with the pre-development condition is estimated to be approximately 75 m^3/year. Runoff associated with current site conditions (post-development) is estimated to be approximately 1,596 m^3/year. The change in runoff is due to clearing and installation of compacted fill and accounts for approximately 11% of the water in the system. The net change in runoff is mitigated as most of the runoff from the pad is captured by the onsite stormwater pond, where it infiltrates. Runoff that is not directed to the stormwater pond is to the site's vegetated buffers where infiltration and evapotranspiration occur.

6 IMPACT ASSESSMENT

6.1 Soil Impacts

Five (5) shallow test pits (TP1-1 to TP1-5) were excavated to the southeast of the Compost Site by SLT on March 7, 2024 (SLT, 2024a). None of the test pits were excavated at the Compost Site.

Ten (10) test pits (TP2-1 to TP2-10) were excavated by SLT on December 12, 2024 (SLT, 2024b). Most of the test pits were located to the southeast of the Compost Site. One test pit (TP2-9) was located at the Compost Site. The soil samples were submitted for laboratory analysis of BTEX, PHCs, metals, inorganics, and PAHs.

The analytical results from test pit soil samples were compared to O.Reg. 153, Table 2 site condition standards (commercial land use, coarse textured soil, potable groundwater condition). The analytical results for the sample from TP2-9 were below the selected criteria. The relevant pages from the laboratory certificate of analysis are provided in Attachment G (see SLT, 2024b for the full certificate of analysis). It should be noted that soil exceedances were identified at five of the nine test pit locations to the southeast of the Compost Site (SLT, 2024b). Exceedances are noted for PHCs, metals, and PAH parameters. These exceedances are thought to be associated with previous snow storage activities at the clearings to the southeast of the Compost Site. Snow storage activities ended in 2023.

Seven boreholes (BH1 to BH7) were drilled on June 24 and 25, 2025 (SLT, 2025b). Borehole locations are indicated in Figure 2. Analytical results from borehole soil samples from B H1, BH2, and BH7 are compared to O.Reg 153 Table 2 site condition standards (institutional and commercial land use, coarse texture soil, potable groundwater condition) in Table 6 of this report. The laboratory certificate of analysis is provided in Attachment H. The analytical results for borehole soil samples from BH1, BH2, and BH7 were all below the applicable criteria.

It is noted that soil samples BH1-S1, BH2-S3, and BH7-S13 had detectable concentrations of one or more PAH parameters, and that soil sample BH2-S3 had detectable concentrations of PHC F3 and F4, all at levels that are well below the applicable criteria.

Table 6: Borehole Soil Geochemistry

PARAMETER	Units	Reporting Limit	O.Reg 153 limits (Table 2 * Institutional Land Use)	O.Reg 153 limits (Table 2 ** Commercial Land Use)	BH1-S1 (0.0 to 1.37 m bgs)	BH1-S2 (1.52 to 3.66 m bgs)	BH2-S3 (0.0 to 2.13 m bgs)	BH7-S12 (0.0 to 1.37 m bgs)	BH7-S13 (1.52 to 2.59 m bgs)	BH7-S13 (DUP)
Metals										
Antimony	ug/g	0.2	7.5	40	<0.2	<0.2	0.25	<0.2	<0.2	<0.2
Arsenic	ug/g	1	18	18	1.9	<1	2.4	1.3	1.8	1.7
Barium	ug/g	0.5	390	670	65	52	62	97	100	100
Beryllium	ug/g	0.2	4	8	0.26	<0.2	0.22	<0.2	0.22	0.21
Boron	ug/g	5	120	120	<5	<5	<5	<5	6.2	5.9
Cadmium	ug/g	0.1	1.2	1.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/g	1	160	160	11	8.5	12	9.7	10	10
Chromium IV	ug/g	0.18	8	8	<0.18	<0.18	<0.18	<0.18	<0.18	NA
Cobalt	ug/g	0.1	22	80	4.6	3.6	3.1	4.4	4.5	4.5
Copper	ug/g	0.5	140	230	9.7	7.6	12	9.1	12	12
Lead	ug/g	1	120	120	7.7	3.0	17	4.4	13	14
Mercury	ug/g	0.05	0.27	3.9	<0.05	<0.05	0.056	<0.05	<0.05	<0.05
Molybdenum	ug/g	0.5	6.9	40	<0.5	<0.5	1.4	<0.5	<0.5	<0.5
Nickel	ug/g	0.5	100	270	7.6	5.3	7.5	7.5	8.1	7.9
Selenium	ug/g	0.5	2.4	5.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	ug/g	0.2	20	40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	ug/g	0.05	1	3.3	0.074	0.052	0.07	0.065	0.075	0.082
Uranium	ug/g	0.05	23	33	0.45	0.41	0.4	0.45	0.44	0.46
Vanadium	ug/g	5	86	86	24	18	16	10	19	19
Zinc	ug/g	5	340	340	19	11	29	15	32	32
Polycyclic Aromatics Hydrocarbons (PAHs)										
Acenaphthene	ug/g	0.005	7.9	21	<0.005	<0.005	0.007	<0.005	<0.005	NA
Acenaphthylene	ug/g	0.005	0.15	0.15	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Anthracene	ug/g	0.005	0.67	0.67	<0.005	<0.005	0.02	<0.005	<0.005	NA
Benz[a]anthracene	ug/g	0.005	0.5	0.96	<0.005	<0.005	0.053	<0.005	0.0092	NA
Benzo[a]pyrene	ug/g	0.005	0.3	0.3	<0.005	<0.005	0.052	<0.005	0.019	NA
Benzo[b,j]fluoranthene	ug/g	0.005	0.78	0.96	<0.005	<0.005	0.079	<0.005	0.033	NA
Benzo(g,h,i)perylene	ug/g	0.005	6.6	9.6	0.0064	<0.005	0.035	<0.005	0.017	NA
Benzo[k]fluoranthene	ug/g	0.005	0.78	0.96	<0.005	<0.005	0.025	<0.005	0.01	NA
Chrysene	ug/g	0.005	7	9.6	<0.005	<0.005	0.052	<0.005	0.012	NA
Dibenz[a,h]anthracene	ug/g	0.005	0.1	0.1	<0.005	<0.005	0.0091	<0.005	<0.005	NA
Fluoranthene	ug/g	0.005	0.69	9.6	<0.005	<0.005	0.13	<0.005	0.016	NA
Fluorene	ug/g	0.005	62	62	<0.005	<0.005	0.0093	<0.005	<0.005	NA
Indeno[1,2,3-cd]pyrene	ug/g	0.005	0.38	0.76	<0.005	<0.005	0.036	<0.005	<0.005	NA
Methlynaphthalene-1	ug/g	0.005	0.99	30	<0.005	<0.005	0.0084	<0.005	<0.005	NA
Methlynaphthalene-2	ug/g	0.005	0.99	30	<0.005	<0.005	0.0092	<0.005	<0.005	NA
Naphthalene	ug/g	0.005	0.6	9.6	<0.005	<0.005	0.011	<0.005	<0.005	NA
Phenanthrene	ug/g	0.005	6.2	12	<0.005	<0.005	0.13	<0.005	<0.005	NA
Pyrene	ug/g	0.005	78	96	<0.005	<0.005	0.095	<0.005	0.012	NA
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)										
Benzene	ug/g	0.02	0.21	0.32	<0.02	<0.02	<0.02	<0.02	<0.02	NA
Toluene	ug/g	0.02	2.3	6.4	<0.02	<0.02	<0.02	<0.02	<0.02	NA
Ethylbenzene	ug/g	0.02	1.1	1.1	<0.02	<0.02	<0.02	<0.02	<0.02	NA
Xylenes	ug/g	0.04	3.1	26	<0.04	<0.04	<0.04	<0.04	<0.04	NA
Petroleum Hydrocarbons (PHCs)										
F1	ug/g	10	55	55	<10	<10	<10	<10	<10	NA
F2	ug/g	7	98	230	<7	<7	<7	<7	<7	NA
F3	ug/g	50	300	1700	<50	<50	87	<50	<50	NA
F4	ug/g	50	2800	3300	<50	<50	30	<50	<50	NA

Bold and shaded = result exceeds limit

Ontario Regulation 153/04 (as amended), Records of Site Condition. Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (institutional land use*, commercial land use**, coarse texture soil, potable groundwater condition)

NA = not analysed | NC - no criteria | ND = non-detectable | bgs = below ground surface

6.2 Surface Water Impacts

Surface water features on or near the subject site include:

- Unregulated wetlands onsite and bordering nearby PSW.
- A stormwater pond at the site that receives surface water runoff from the compost site clearing /pad area.
- An unnamed creek that occurs approximately 190 m to the south of the site.

The site has been operating since 1993. The surface water regime in the vicinity of the site is stable and no changes have occurred since 1992, and no significant changes are anticipated in the future.

Table 7: Surface Water Geochemistry (March 25, 2025)

PARAMETER	Units	Reporting Limit	PWQO	S1	S1 (DUP)	S2	S3	S4
Metals								
Antimony	ug/L	0.5	20	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	ug/L	1	100	<1	<1	<1	<1	<1
Barium	ug/L	2	NC	47	48	51	55	41
Beryllium	ug/L	0.4	11/1100	<0.4	<0.4	<0.4	<0.4	<0.4
Boron	ug/L	10	200	<10	<10	<10	<10	<10
Cadmium	ug/L	0.09	200	<0.09	<0.09	<0.09	<0.09	<0.09
Chromium	ug/L	5	8.9	<5	<5	<5	<5	<5
Chromium IV	ug/L	0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt	ug/L	0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
Copper	ug/L	0.9	5	1.0	1.0	1.1	<0.9	<0.9
Lead	ug/L	0.5	1/3/5	<0.5	<0.5	<0.5	<0.5	<0.5
Mercury	ug/L	0.1	0.2	<0.1	NA	<0.1	<0.1	<0.1
Molybdenum	ug/L	0.5	40	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	ug/L	1	25	<1	<1	<1	<1	<1
Selenium	ug/L	2	100	<2	<2	<2	<2	<2
Silver	ug/L	0.09	0.1	<0.09	<0.09	<0.09	<0.09	<0.09
Sodium	ug/L	100	NC	8100	8000	7300	7500	23000
Thallium	ug/L	0.05	0.3	<0.05	<0.05	<0.05	<0.05	<0.05
Uranium	ug/L	0.1	5	0.14	0.14	0.17	0.16	0.16
Vanadium	ug/L	0.5	6	<0.5	<0.5	<0.5	<0.5	<0.5
Zinc	ug/L	5	30	8.8	13	8.2	6.3	5.5
Polycyclic Aromatics Hydrocarbons (PAHs)								
18 parameters tested as per O.Reg. 153			various	ND	NA	ND	ND	ND
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)								
BTEX parameters	ug/L	various	various	ND	NA	ND	ND	ND
Petroleum Hydrocarbons (PHCs)								
F1 to F4	ug/L	various	various	ND	NA	ND	ND	ND
Bold and shaded = result exceeds limit								
Provincial Water Quality Objectives (PWQO), MOEE, 1994. Water Management, Policies, Guidelines, Provincial Water Quality Objectives.								
NA = not analysed		NC - no criteria		ND = non-detectable				

Surface water sampling was conducted on March 25, 2025 (SLT, 2025a). Four (4) surface water samples (S1 to S4) were collected in locations to the southeast of the Compost Site by Town of Smiths Falls staff. Surface water sample locations are indicated in Figure 2. Analytical results from the surface water samples are compared to the applicable surface water quality standards (Ontario Provincial Water Quality Objectives (PWQO)) in Table 7 of this report. The laboratory certificate of analysis is provided in Attachment I. The analytical results for all surface water samples were below the PWQO limits. The results for PAHs and PHCs were all non-detectable.

It is noted that low level concentrations of copper, uranium and zinc were detected in one or more of the samples, all at levels that are well below the PWQO limits. Barium and sodium were also detected at low concentrations in all four samples.

6.3 Groundwater Impacts

SLT conducted groundwater sampling at six monitoring wells (MW1, MW2, MW3, MW4, MW6, and MW7) on June 26, 2025. Samples were submitted for laboratory analysis of BTEX, PHCs (F1 to F4), metals (including chromium XI, and mercury), and PAHs.

Analytical results from the groundwater samples from MW1, MW2, and MW7 are compared to the limits provided in O.Reg. 153, Table 2 site condition standards (all types of property use, coarse textures soils) in Table 8 of this report. The laboratory certificate of analysis is provided in Attachment J. The analytical results for groundwater samples from MW1, MW2, and MW7 were all below the applicable Table 2 Site Condition Standards.

It is noted that the groundwater samples from MW1 and MW7 had detectable concentrations of one or more PAH parameters, and that the sample from MW2 had detectable concentrations of benzene and toluene, all at levels that are well below the applicable Table 2 Site Condition Standards.

The results were also compared to the Ontario Drinking Water Standards (MECP – ODWS, 2003, as amended) in Table 8 of this report. There were no exceedances of the ODWS health limits. The concentration of sodium at MW2 exceeded the ODWSOG (MECP, 2003, as amended) aesthetic objective (AO) limit.

Table 8: Groundwater Geochemistry (June 26, 2025)

PARAMETER	Units	Reporting Limit	O.Reg 153 limits (Table 2 *)	ODWS***	MW1	MW2	MW7
				Sample Date	26-Jun-25		
Metals							
Antimony	ug/L	0.5	6	6	<0.5	<0.5	<0.5
Arsenic	ug/L	1	25	10	<1	1.9	<1
Barium	ug/L	2	1,000	1,000	150	350	340
Beryllium	ug/L	0.4	4	NC	<0.4	<0.4	<0.4
Boron	ug/L	10	5,000	5,000	21	56	40
Cadmium	ug/L	0.09	2.7	5	<0.09	<0.09	<0.09
Chromium	ug/L	5	50	50	<5	<5	<5
Chromium IV	ug/L	0.5	25	NC	<0.5	<0.5	<0.5
Cobalt	ug/L	0.5	3.8	NC	2.4	2.2	<0.5
Copper	ug/L	0.9	87	1,000[AO]	<0.9	3.4	3.3
Lead	ug/L	0.5	10	10	<0.5	<0.5	<0.5
Mercury	ug/L	0.1	0.29	1	<0.1	<0.1	<0.1
Molybdenum	ug/L	0.5	70	NC	2.6	13	2
Nickel	ug/L	1	100	NC	2.4	3.2	<1
Selenium	ug/L	2	10	50	<2	<2	<2
Silver	ug/L	0.09	1.5	NC	<0.09	<0.09	<0.09
Sodium	ug/L	100	NC	200,000[AO]	17,000	**300,000**	7,800
Thallium	ug/L	0.05	2	NC	<0.05	<0.05	<0.05
Uranium	ug/L	0.1	20	20	0.7	2.6	2.8
Vanadium	ug/L	0.5	6.2	NC	<0.5	4.2	0.59
Zinc	ug/L	5	1,100	5,000[AO]	<5	<5	6.1
Polycyclic Aromatics Hydrocarbons (PAHs)							
Fluoranthene	ug/L	0.05	0.41	NC	0.052	ND	ND
Phenanthrene	ug/L	0.03	1	NC	0.18	ND	0.064
Pyrene	ug/L	0.05	4.1	NC	0.073	ND	ND
15 other PAH paremeters		various	various	various	ND	ND	ND
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)							
Benzene	ug/L	0.2	5	1	<0.2	0.40	<0.2
Toluene	ug/L	0.2	24	60	<0.2	0.33	<0.2
Ethylbenzene	ug/L	0.2	2.4	140	<0.2	<0.2	<0.2
Xylenes	ug/L	0.4	300	90	<0.4	<0.4	<0.4
Petroleum Hydrocarbons (PHCs)							
F1 to F4	ug/L	various	various	NC	ND	ND	ND

Bold and shaded = result exceeds health limit

Bold = result exceeds ODWSOG aesthetic obcetive (AO) limit

AO = Aesthetic Objective

* Ontario Regulation 153/04 (as amended), Records of Site Condition. Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (Table 2, all types of property use, coarse textured soils)

*** Ontario Ministry of Environment Conservation and Parks (MECP) (MOE, 2003, Revised 2006 as amended). Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines (ODWSOG) as amended/revised under Ontario Regulation 169/03, 2021.

NA = not analysed

NC - no criteria

ND = non-detectable

6.4 Natural Functions of the Ecosystem

The Compost Site is located in a forested area between two portions of the provincially significant Swale Wetland. Unregulated wetlands extend onto the edges of the Compost Site in two places.

Composting activities have the potential to affect adjacent ecological features through the leaching of nutrients and organic compounds. Elevated concentrations of nutrients (typically nitrate, ammonia, phosphorus, and potassium) and biochemical oxygen demand (BOD) are expected in surface water and/or shallow groundwater. Leaching of trace metals, phthalates, and phenolic compounds may also occur, though these are typically of low concentrations in leaf and yard waste.

Analytical results from one test pit soil sample (TP2-9) collected at the Compost Site did not exceed the applicable Table 2 site condition standards. Groundwater sample analytical results from monitoring wells located on and near the Compost Site (MW1, MW2, and MW7) did not exceed the applicable Table 2 site condition standards. These results suggest that impacts to soil and groundwater are minimal under current operating conditions.

The PSW setbacks are intended to provide a protective buffer to preserve the natural functions of adjacent wetland ecosystems. The Compost Site is located outside of the regulated PSW setback areas, as shown on Figure 4, and all composting activities are confined to a topographically elevated area away from the mapped wetland features.

Stormwater generated on the site is directed to an on-site stormwater management pond, which facilitates sedimentation and infiltration. The site has been in operation since 1993. Based on site observations and aerial imagery, there is no evidence of ecological impacts to the downgradient PSW such as algal blooms, or stressed vegetation.

Given the current site configuration, existing management practices, and monitoring results, there is no indication that the natural function of the adjacent PSW has been adversely affected by site operations. Adverse effects are unlikely to occur in the future if the site continues to be carefully managed in accordance with best practices.

6.5 Mitigation

The following mitigation measures have been identified:

- Supervision of onsite equipment use. Leaf and garden waste is screened onsite by local contractors. The screening process is monitored by Town of Smiths Falls staff to ensure the equipment is in good working condition and is properly maintained.
- This risk of contamination from vehicular traffic and heavy equipment (a loader operated by the Town of Smiths Falls, and contractor screening equipment) can be mitigated by implementation of a site specific spill response plan (see Attachment K).
- Diligent site management and operational controls will help to prevent detrimental impacts.

- Monitoring of surface water quality at the established surface water stations will identify any significant impacts if they do occur. Surface water monitoring details are provided in Section 7.1.
- Monitoring of groundwater at selected monitoring wells will identify any significant impacts if they do occur. Groundwater monitoring details are provided in Section 7.2.

7 MONITORING PLAN

The following is a summary of the locations, monitoring requirements, analytical requirements, and reporting schedule.

The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in:

- MECP 'Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater' (August 1994), ISBN 0-7778-18880-9, as amended.
- The publication 'Standard methods for the Examination of Water and Wastewater' (22nd edition) as amended.

7.1 Surface Water Monitoring

Surface water monitoring stations

- S1
- S2
- S3
- S4

Surface water monitoring

- At all locations conduct surface water monitoring including measurement of:
- Field parameters (pH, conductivity, TDS, and temperature) to be measured using a calibrated multimeter instrument.
- Depth and width of channel.
- Flow condition (low / moderate / high)

Surface water sampling

- Surface water samples are to be collected at each surface water station (S1, S2, S3, and S4).
- Surface water samples to be collected according to standard industry practices by suitably trained personnel (i.e. nitrile gloves, laboratory supplied bottles with preservatives, temperature control, samples submitted within holding times, and strict chain-of-custody protocols).
- Laboratory analysis of surface water samples
- Samples to be submitted to a CALA registered environmental laboratory under strict chain-of custody protocols.

- Samples to be submitted for laboratory analysis of:
    - Hardness
    - Alkalinity as CaCO3
    - Electrical conductivity
    - pH
    - Total oil and grease
    - Total ammonia
    - (un-ionized ammonia to be calculated according to Provincial Water Quality Objectives (PWQO) methodology (MOEE, 1994).
    - Nitrate
    - Nitrite
    - Total Phosphorus
    - Potassium
    - Iron
    - Manganese
    - Copper
    - Zinc
    - DOC
    - Phthalates
    - Phenols

Schedule

- Surface water monitoring and sampling to be conducted once per year in July.

7.2 Groundwater Monitoring

Groundwater monitoring network

- MW1
- MW2
- MW7

Groundwater monitoring

- At all locations conduct groundwater elevation monitoring including measurement of:
- The distance from reference point (top of riser) to water in each well using an electronic water level tape.
- Field parameters (pH, conductivity, TDS, and temperature) to be measured using a calibrated multimeter instrument.

Groundwater sampling

- Groundwater samples are to be collected at each monitoring well.
- Groundwater samples to be collected according to standard industry practices by suitably trained personnel (i.e. nitrile gloves, laboratory supplied bottles with preservatives, temperature control, samples submitted within holding times).

- Field parameters (pH, electrical conductivity, temperature) to be measured using a calibrated multimeter instrument at the time of sampling.
- Laboratory analysis of groundwater samples
- Samples to be submitted to a Canadian Association For Laboratory Accreditation (CALA) registered environmental laboratory under chain-of custody protocols.
- Samples to be submitted for analysis of:
    - Hardness
    - Alkalinity as CaCO3
    - Electrical conductivity
    - pH
    - Chloride
    - Nitrate
    - Nitrite
    - Total Phosphorus
    - Potassium
    - Iron
    - Manganese
    - Copper
    - Zinc
    - DOC
    - Phthalates
    - Phenols
    - Sodium
    - Total oil and grease

Schedule

- Groundwater monitoring and sampling to be conducted at all monitoring wells once per year in July.

7.3 Reporting

An annual water monitoring report to be prepared by a suitable qualified person (environmental geoscientist with P.Geo. or P.Eng. qualification). The annual water monitoring report should include:

- A description of all surface water and groundwater monitoring locations.
- Methodology.
- Results (tabulated and plotted) including a comparison of analytical results with applicable limits.
- Discussion of results.
- Conclusions and recommendations.

Schedule

The annual monitoring report to be submitted to MECP before November 30 of each year.

8 CONTINGENCY PLAN

8.1 Trigger Mechanisms

The following trigger mechanisms will be used:

- A complaint is received.
- Surface water analytical results exceeding PWQO limits.
- Groundwater analytical results at MW1, MW2, or MW7 exceeding the applicable site conditions standards (O.Reg. 153 Table 2 site condition standards, commercial land use, coarse texture soil, for a potable groundwater condition.
- Any indication that the natural environment is being degraded.

The following contingency actions will be taken if triggered:

- If any complaints are received, or if any adverse effects are identified an investigation regarding adverse effects will be conducted immediately.
- The Town of Smiths Falls will retain a qualified person (Ontario licensed environmental geoscientist/engineer with QP_{ESA} designation) to define and supervise the investigation. The qualified person will provide an action plan to ensure safe management as soon as possible.
- If significant impacts to the environment and/or potable water users is identified, the MECP will be informed.
- If a neighbouring property owner within 500 m of the site reports a well water quality issue, the Town of Smiths Falls will investigate the nature of the concern and determine if it is potentially associated with the Compost Site. If the Compost Site is confirmed to be the probable cause of the issue the Town of Smiths Falls will inform MECP, investigate the issue, and a provide an action plan for safe management.

9 CONCLUSIONS

- The location of the Compost Site is suitable for use as a compost facility and is compliant with source protection plan, and Zoning By-law requirements.
- There is no significant threat to drinking water as existing impacts to soil and overburden groundwater are limited and localised. The primary source of potable groundwater in the area is the bedrock aquifer, which is unlikely to be adversely affected by the Compost Site.
- Investigations at the site and surrounding areas (test pitting, drilling, monitoring wells, and surface water sampling) are generally sufficient to characterise potential impacts associated with activities at the Compost Site.
- The site has been active since 1993 and has not caused any significant impacts. The local surface water regime is stable and is unlikely to change.
- The closest water supply wells are unlikely to adversely affected by the Compost Site.

- There is no indication that the natural function of the adjacent PSW has been adversely affected by Compost Site operations. Adverse effects are unlikely to occur in the future if the site continues to be carefully managed in accordance with best practices.

10 RECOMMENDATIONS

- A spill response plan (see Attachment K) for the Compost Site should be implemented.
- The monitoring plan presented in this report (Section 7) should be conducted on an annual basis.
- The contingency plan presented in this report (Section 8) should be used to ensure appropriate actions will be taken if any indications of adverse effects are identified.
- Further information should be obtained regarding the closest water supply well at 3618 Highway 43. The well owner should be interviewed, and the depth of the well should be determined (if possible). The well should be inspected to assess general compliance with Ontario Regulation 903 construction requirements. If the well is not a drilled bedrock well with casing that extends into the bedrock unit, the well should be sampled, and the sample should be submitted for analysis if the list of parameters identified in Section 7.2 of this report.

In summary, it is RLC-HydroG`s professional opinion that the site is suitable for use as a Compost Site. The hydrogeological recommendations contained in this report, if followed, will ensure that operation of the Compost Site will be safe and sustainable in the long term, and will not cause any adverse effects to the environment.

RLC-HydroG – Hydrogeological Services

Russell Laird Chown, P.Geo. QP_{ESA}
Senior Hydrogeologist

Filename: SLT-TOSF - Smiths Falls Compost Site - FINAL - 8jul25

11 LIMITING CONDITIONS

This report has been prepared by **RLC-HydroG** exclusively for the use of the named clients: **St. Lawrence Testing & Inspection Co. Ltd.** and the **Town of Smiths Falls**. No other party may rely on or reproduce this report, in whole or in part, without the prior written consent of RLC-HydroG. RLC-HydroG will consider reasonable requests to authorize use by third parties; however, any unauthorized use of this report is at the sole risk of the user.

This report presents the site conditions and observations as documented by RLC-HydroG during the site investigation and is based on information available at the time of the work. The conclusions and recommendations expressed herein are professional opinions based on the scope of work, project objectives, available data, and the limiting conditions stated in this report.

RLC-HydroG has relied in good faith on information provided by third parties and assumes such information to be accurate and complete. This information has not been independently verified unless specifically stated. RLC-HydroG accepts no liability for errors, omissions, or inaccuracies resulting from inaccurate or incomplete information provided by others.

The findings of this report apply only to the site conditions observed at the specific locations and on the dates noted. Unless otherwise indicated, they should not be extrapolated to other areas, times, or environmental conditions beyond the scope of investigation. Similarly, conclusions related to analytical testing are limited to the parameters analyzed by the laboratories retained for this project.

This report does not constitute legal advice and should not be interpreted as such. RLC-HydroG offers no assurance or certification of compliance with environmental laws, regulations, or policies, which remain the responsibility of the client or regulatory authorities.

Any use of this report by parties other than the client is entirely at their own risk. RLC-HydroG disclaims any responsibility or liability for damages or losses incurred by third parties as a result of decisions made or actions taken based on this report.

12 REFERENCES

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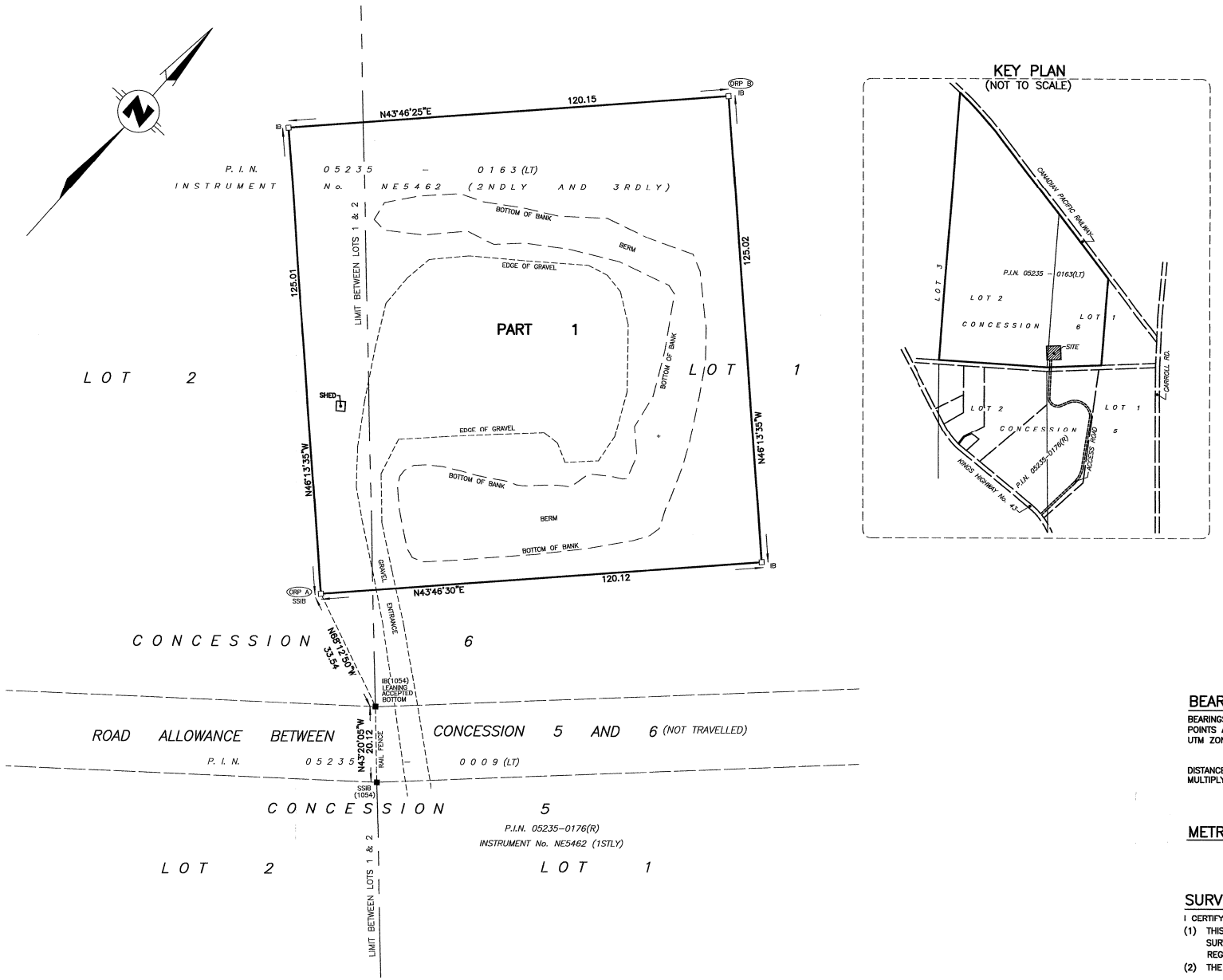
ATTACHMENT A

Legal Survey



KEY PLAN
(NOT TO SCALE)

PLAN OF SURVEY
OF PART OF
LOTS 1 AND 2 CONCESSION 6
IN THE
GEOGRAPHIC TOWNSHIP OF NORTH ELMSLEY
TOWNSHIP OF DRUMMOND/NORTH ELMSLEY
COUNTY OF LANARK

SCALE 1:750

30 22.5 15 7.5 0 15 30
(SCALE IN METRES)

GEORGE N. BRACKEN
ONTARIO LAND SURVEYOR

LEGEND:

□	DENOTES	SURVEY MONUMENT SET
■	"	SURVEY MONUMENT FOUND
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
IB	"	IRON BAR
RIB	"	ROUND IRON BAR
CC	"	CUT CROSS
OU	"	ORIGIN UNKNOWN
ORP	"	OBSERVED REFERENCE POINT
WIT	"	WITNESS
M	"	MEASURED
S	"	SET
1054	"	GEDRGE BRACKEN O.L.S.

BEARING NOTE

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A & B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 18, CENTRAL MERIDIAN 75°00'00"W, NAD83 (CSRS)

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999669

METRIC DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

INTEGRATION DATA

OBSERVED REFERENCE POINTS (ORP'S) DERIVED FROM REAL TIME NETWORK OBSERVATIONS (RTN) AND ARE REFERRED TO UTM ZONE 18 NAD83 (CSRS)(2010) COORDINATES COMPLY WITH RURAL ACCURACY PER SEC.14 (2) OF O. REG. 216/10

POINT ID	NORTHING	EASTING
ORP A	4973831.7	417589.4
ORP B	4974004.8	417582.3

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

(1) THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND LAND TITLES ACT, AND THE REGULATIONS MADE UNDER THEM.

(2) THE SURVEY WAS COMPLETED ON THE 17TH DAY OF APRIL, 2025

April 22, 2025
DATE

GEORGE N. BRACKEN
ONTARIO LAND SURVEYOR

THIS PLAN OF SURVEY RELATES TO AOLS PLAN SUBMISSION FORM NUMBER V-96306

Callon Dietz INCORPORATED
ONTARIO LAND SURVEYORS
CARLETON PLACE LONDON NORTH BAY
requests@callondietz.com callondietz.com

ISO 9001 REGISTERED

SURVEY BY: JV	DRAWN BY: RW	FILE No: 25-27301	PLAN No: X-4027

O:\Projects\2025\25-27301 Town of Smiths Falls Compost Site\Drawings\25-27301 c3d Plan of Survey.dwg April 22, 2025

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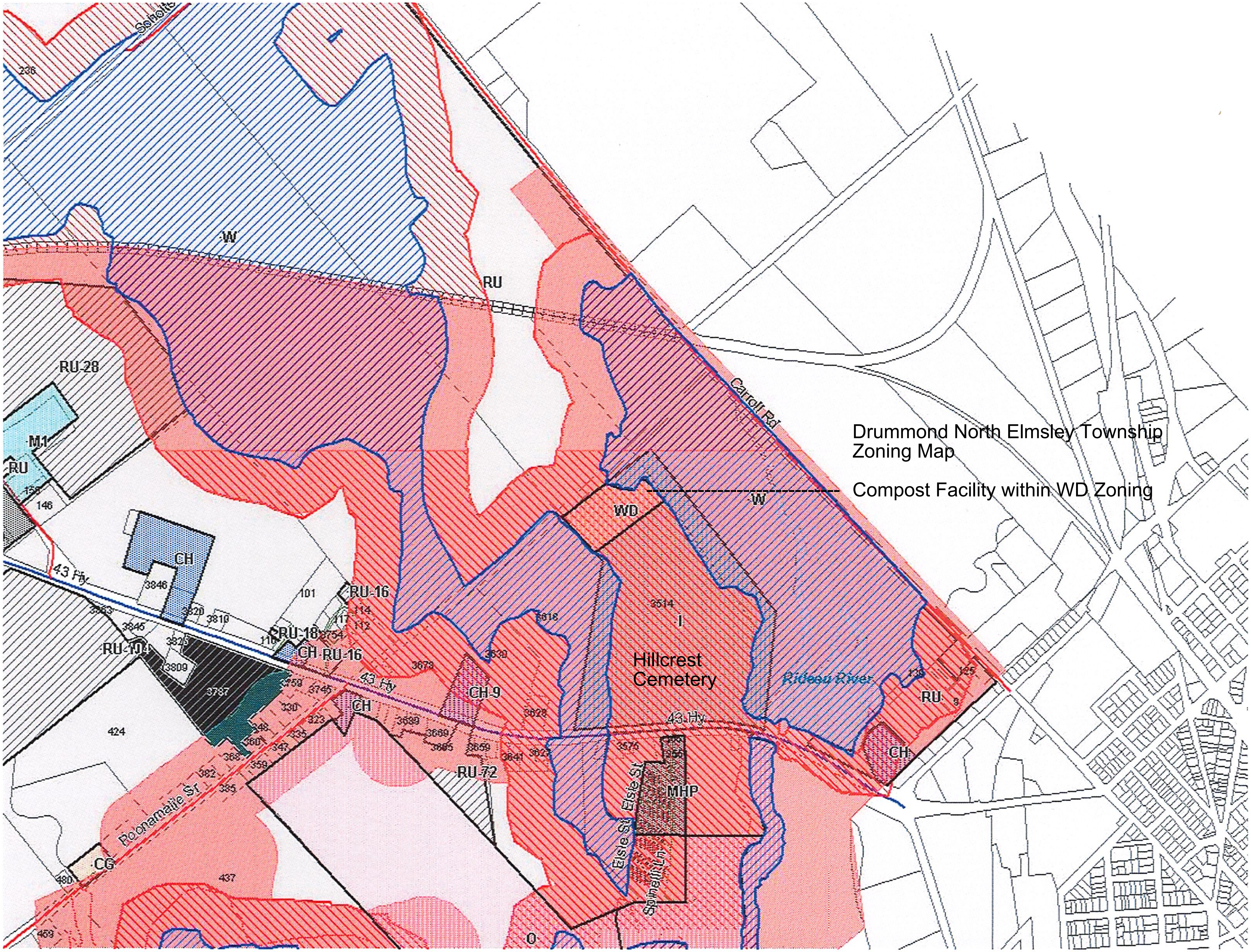
ATTACHMENT B

Zoning Map


Drummond North Elmsley Township
Zoning Map
Compost Facility within WD Zoning
W
RU
RU-28
M1
RU
CH
43 Hy
RU-16
RU-18
CH
RU-16
RU-10
CH-9
CH
RU-72
WD
W
I
Hillcrest
Cemetery
Rideau River
RU
CH
MHP
Carroll Rd
Poonamalie Sr
Elsie St
CG
O

RLC-HydroG

ATTACHMENT C

Elevation Survey

Elevation survey at Smiths Falls Compost Site - 27jun25				
Bench Mark				masl
CONTROL POINT A	*Elev at centre of roadway in front of white-blue shed at compost site*		*LIDAR ->*	*126.58*
Setup level	STN-0		measurement	masl
	Elevation of laser level (1st setup)		1.344	127.924
MW7		GS	3.078	124.846
		TOC	5 cm above TOR	126.022
		TOR	1.952	125.972
MW1		GS	2.098	125.826
		TOC	1.002	126.922
		TOR	1.077	126.847
Move level	STN-A			
	BS to BH1-TOR (***above***)		0.196	126.651
	FS to TP-A		1.901	124.750
Move level	STN-B			
	BS to TP-A		0.836	125.586
MW3		GS	1.887	123.699
		TOC	0.852	124.734
		TOR	0.898	124.688
Move level	STN-C			
	BS to MW3-TOR		1.037	125.725
MW2		GS	1.514	124.211
		TOC	0.682	125.043
		TOR	0.753	124.972
Move level	STN-D			
	BS to MW3-TOR		1.027	125.715
	FS to TP-B		1.311	124.404
CONTROL POINT B	*Centre of bridge*		*1.782*	*123.933*
Move level	STN-E			
	BS to TP-B		1.920	126.324
MW4		GS	2.444	123.880
		TOC	1.445	124.879
		TOR	1.487	124.837
MW5		GS	1.464	124.860
		TOC	no casing	
		TOR	0.443	125.881
	FS to TP-C		1.234	125.090
Move level	STN-F			
	BS to TP-C		0.896	125.986
	BS to MW5-TOR		0.104	125.882
need another TP	FS to TP-D		1.372	124.614
Move level	STN-G			
	BS to TP-D		1.711	126.325
MW6		GS	1.466	124.859
		TOC	0.336	125.989
		TOR	0.403	125.922
CONTROL POINT C	*Centre of tarmac road adjacent to centre of access to MW6*		*1.876*	*124.449*

ID	GS	TOR
MW1	125.83	126.85
MW2	124.21	124.97
MW3	123.70	124.69
MW4	123.88	124.84
MW5	124.86	125.88
MW6	124.86	125.92
MW7	124.85	125.97

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ATTACHMENT D

SLT Borehole Logs

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163

CLIENT Town of Smiths Falls — BOREHOLE NO. 1

LOCATION Compost Site — CASING HF Auger

DATE OF BORING June 24, 2025 — DATE OF WL READING June 26, 2025 — DATUM

DEPTH	ELEVATION DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0		Silty Sand Brown, moist, loose, becoming gravelly and compact below 0.9 m, and very moist and dense below 2.4 m and moist and dense below 3.0 m				SS	1	30	6	
						SS	2	40	17	
						SS	3	75	14	
						SS	4	65	36	
						SS	5	75	45	
4	4.03	Auger refusal Well Installed Screen: 4.03 to 0.91 m Sand: 4.03 to 0.61 m Hole Plug: 0.61 to surface								
5										

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS. WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . . .
0 20 40 60 80

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163
BOREHOLE NO. 2
CASING HF Auger
DATUM

CLIENT Town of Smiths Falls
LOCATION Compost Site
DATE OF BORING June 24, 2025 DATE OF WL READING June 26, 2025

DEPTH	ELEVATION DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0										
		75 mm Topsoil Silty Sand Brown, moist, dense, with gravel, becoming loose below 1.5 m and dense below 2.3 m				SS	1	50	57	
1						SS	2	40	40	
2						SS	3	10	8	
	2.44	Auger refusal Well Installed Screen: 2.44 to 0.91 m Sand: 2.44 to 0.61 m Hole Plug: 0.61 m to surface								
3										
4										
5										

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS.
WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . . .
0 20 40 60 80

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163
BOREHOLE NO. 3
CASING HF Auger
DATUM

CLIENT Town of Smiths Falls
LOCATION Compost Site
DATE OF BORING June 24, 2025
DATE OF WL READING June 26, 2025

DEPTH	ELEVATION DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0										
		75 mm Topsoil				SS	1	35	2	
		Silty Sand								
		Brown, moist, loose, becoming compact below 0.8 m with wet zone and gravel and gravelly, moist and dense below 2.3 m				SS	2	25	11	
1										
						SS	3	50	15	
2										
						SS	4	100	41	
3										
						SS	5	80	43	
4										
	4.37	Auger refusal								
		Well Installed								
		Screen: 4.37 to 0.91 m								
		Sand: 4.37 to 0.61 m								
5		Hole Plug: 0.61 m to surface								

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS.
WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . . .
0 20 40 60 80

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163
BOREHOLE NO. 4
CASING HF Auger
DATUM

CLIENT Town of Smiths Falls
LOCATION Compost Site
DATE OF BORING June 24, 2025
DATE OF WL READING June 26, 2025

DEPTH	ELEVATION DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0										
		125 mm Topsoil Silt & Sand Brown, moist, loose with clay				SS	1	20	6	
1						SS	2	30	9	
						SS	3	55	4	
2	1.98	Silty Sand Brown, moist, gravelly, compact, becoming brown grey, very moist and dense below 3.0 m				SS	4	60	23	
3						SS	5	55	50+	
4										
	4.29	Auger refusal Well Installed Screen: 4.29 to 0.91 m Sand: 4.29 to 0.61 m Hole Plug: 0.61 to surface								
5										

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS.
WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . . .
0 20 40 60 80

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163

CLIENT Town of Smiths Falls — BOREHOLE NO. 5

LOCATION Compost Site — CASING HF Auger

DATE OF BORING June 24, 2025 — DATE OF WL READING June 26, 2025 — DATUM

DEPTH	ELEVATION / DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0		Topsoil with gravel				SS	1	55	19	
	0.61	Silty Sand Black then brown, moist, compact with gravel, with black below 1.5 m to 1.8 m and very moist and dense below 2.4 m				SS	2	50	12	
1						SS	3	45	7	
2						SS	4	80	50+	
	2.64	Auger refusal								
		Well Installed Screen: 2.64 to 0.91 m Sand: 2.64 to 0.61 m Hole Plug: 0.61 m to surface								
3										
4										
5										

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS. WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . . .
0 20 40 60 80

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163

CLIENT Town of Smiths Falls — BOREHOLE NO. 6

LOCATION Compost Site — CASING HF Auger

DATE OF BORING June 24, 2025 — DATE OF WL READING June 26, 2025 — DATUM

DEPTH	ELEVATION DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED	LAB TEST RESULTS
0		Silt & Sand									WATER CONTENT & ATTERBERG LIMITS. WP W WL
		blackn moist, compact, with gravel, with no gravel from 0.8 m to 2.1 m, brown and loose below 0.8 m, becoming compact with gravel below 2.3 m				SS	1	50	13		DYNAMIC PENETRATION TEST BLOWS PER FOOT. 0 20 40 60 80
1						SS	2	50	5		
2						SS	3	55	11		
3						SS	4	100	10		
	3.07	Auger refusal									
		Well Installed Screen: 3.07 to 0.91 m Sand: 3.07 to 0.61 m Hole Plug: 0.61 m to surface									
4											
5											

APPENDIX

St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

REPORT NO. 25C163
BOREHOLE NO. 7
CASING HF Auger
DATUM

CLIENT Town of Smiths Falls
LOCATION Compost Site
DATE OF BORING June 24, 2025 DATE OF WL READING June 26, 2025

DEPTH	ELEVATION / DEPTH	SOIL DESCRIPTION	STRAT. PLOT	WATER CONDITIONS	SAMPLES: CONDITION	TYPE	NUMBER	RECOVERY	N - VALUE	LABORATORY TESTS PERFORMED
0		Topsoil								
	0.18	Silt & Sand Brown, moist, compact, with gravel noted below 1.5 m				SS	1	50	20	
1						SS	2	100	12	
						SS	3	75	10	
2						SS	4	100	50+	
	2.36	Auger refusal Well Installed Screen: 2.36 to 0.91 m Sand: 2.36 to 0.61 m Hole Plug: 0.61 m to surface								
3										
4										
5										

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS.
WP W WL

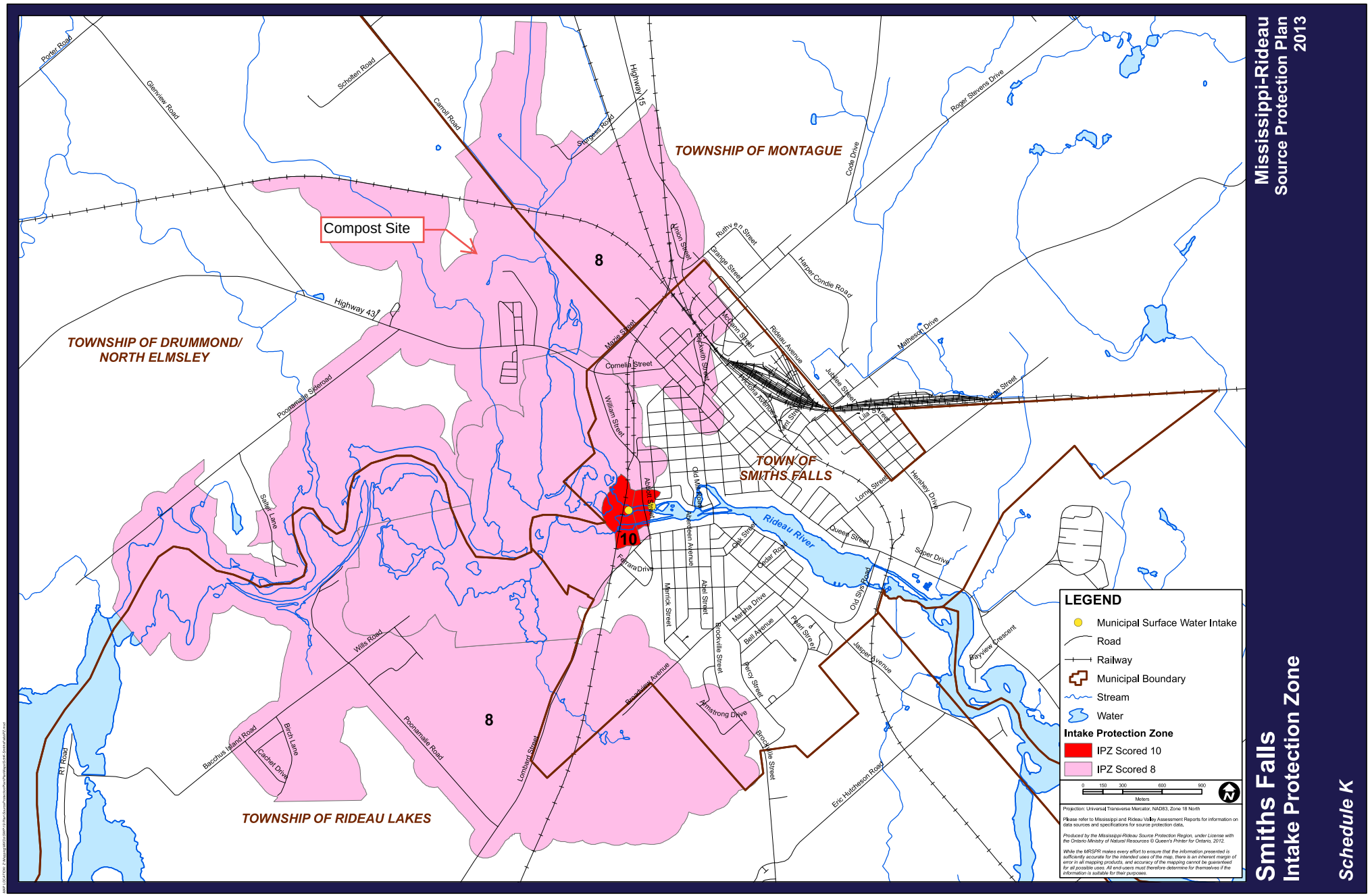
DYNAMIC PENETRATION TEST BLOWS PER FOOT. . .K. . .
0 20 40 60 80

APPENDIX

RLC-HydroG

ATTACHMENT E

Town of Smiths Falls IPZ


Mississippi-Rideau
Source Protection Plan
2013
Smiths Falls
Intake Protection Zone
Schedule K
TOWNSHIP OF MONTAGUE
TOWNSHIP OF DRUMMOND/
NORTH ELMSLEY
TOWN OF
SMITHS FALLS
TOWNSHIP OF RIDEAU LAKES
Compost Site
8
8
10
Rideau River
Highway 15
Highway 43
Porter Road
Glenview Road
Scholten Road
Carroll Road
Slungers Road
Code Drive
Roger Stevens Drive
Ruhy e n Street
Union Street
Grange Street
Harper Condie Road
Methesco t Drive
McMann Street
Rideau Avenue
Rockwith Street
Victoria Avenue
Church Street
Judge Street
Lisa Marie Court
Queen Street
Lorne Street
Hershey Drive
Super Drive
Old Slys Road
Jasper Avenue
Bayview Crescent
Mazie Street
Cornelia Street
William Street
Poonamalie Sideroad
Salter Lane
Alain Street
Old Mill Creek
Aberdeen Avenue
Oak Street
Cedar Road
Ferrara Drive
Merrick Street
Abel Street
Brockville Street
Martha Drive
Bell Avenue
Pearl Street
Perci Street
Broadview Avenue
Armstrong Drive
Brockville Street
Eric Hutcheson Road
Wills Road
Poonamalie Road
Lombard Street
Bacchus Island Road
Birch Lane
Cashel Drive
R1 Road
LEGEND
Municipal Surface Water Intake
Road
Railway
Municipal Boundary
Stream
Water
Intake Protection Zone
IPZ Scored 10
IPZ Scored 8
0 150 300 600 900
Meters
N
Projection: Universal Transverse Mercator, NAD83, Zone 18 North
Please refer to Mississippi and Rideau Valley Assessment Reports for information on data sources and specifications for source protection data.
Produced by the Mississippi-Rideau Source Protection Region, under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
While the MRSPR makes every effort to ensure that the information presented is sufficiently accurate for the intended uses of the map, there is an inherent margin of error in all mapping products, and accuracy of the mapping cannot be guaranteed for all possible uses. All end-users must therefore determine for themselves if the information is suitable for their purposes.

RLC-HydroG

ATTACHMENT F

Water Well Records

ENL 'A'
31 C/16 E

UTM 18 Z 4 1 8 1 1 0 E
5 R 4 9 7 3 1 0 0 N
Elev. 5 R 8 4 0 6

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
35 No 1528
JUL 12 1961
ONTARIO WATER RESOURCES COMMISSION

Basin 2 5
County or District LANARK Township, Village, Town or City NORTH ELMSLEY
Con. 5 Lot 2 Date completed 9th (day Tues.) 5 (month) 1961 (year)
[redacted] address Smiths Falls Ont.

Casing and Screen Record

Inside diameter of casing 4 in.
Total length of casing 22 ft.
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 4 in.

Pumping Test

Static level 10
Test-pumping rate 5 G.P.M.
Pumping level 40
Duration of test pumping 1 hr.
Water clear or cloudy at end of test clear.
Recommended pumping rate 5 G.P.M.
with pump setting of 70 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Soil	0	2	40	
Clay	2	18		fresh.
Sandstone	18	80	78	

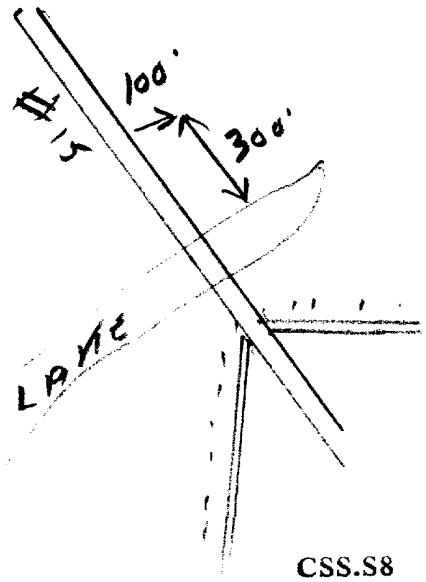
For what purpose(s) is the water to be used? Watering farm drinking purposes toilets.
Is well on upland, in valley, or on hillside? upland.
Drilling or Boring Firm C. V. Morrison
Address Frankville Ont.
Licence Number 275
Name of Driller or Borer Carl Desaulniers
Address Estons Corners.
Date June 14th.
C V Morrison
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

ENL 'A'
31C/16 E

UTM 18 Z 417976 E
19 R 4973020 N
Elev. ~~[illegible]~~ 0407
Basin 25

24

ONTARIO

DEPARTMENT OF MINES
OCT 22 1951
TO ....

35 № 1530

The Well Drillers Act
Department of Mines, Province of Ontario

Water Well Record

[redacted] p, ~~Village, Town or City~~ Elmsley Nor...
Town or City)..
s... Smith Falls

Date Completed .... 6 Sept 49 (day) (month) (year) Cost of Well (excluding pump).....................

Pipe and Casing Record		**Pumping Test**	
Casing diameter(s)	6 in	Date	Sep 6th 1949
Length(s) of casing(s)	5 ft.	Static level	20 ft to water
Type of screen	—	Pumping level	20 to 25 ft
Length of screen	—	Pumping rate	200 g p h
Distance from top of screen to ground level	—	Duration of test	1 hr
Is well a gravel-wall type?	no	Distance from cylinder or bowls to ground level	—

Water Record

Kind (fresh or mineral) .... fresh
Quality (hard, soft, contains iron, sulphur, etc.) .... hard
Appearance (clear, cloudy, coloured) .... clear
For what purpose(s) is the water to be used? .... house
How far is well from possible source of contamination? 100 ft
What is the source of contamination? .... out door house
Enclose a copy of any mineral analysis that has been made of water. —

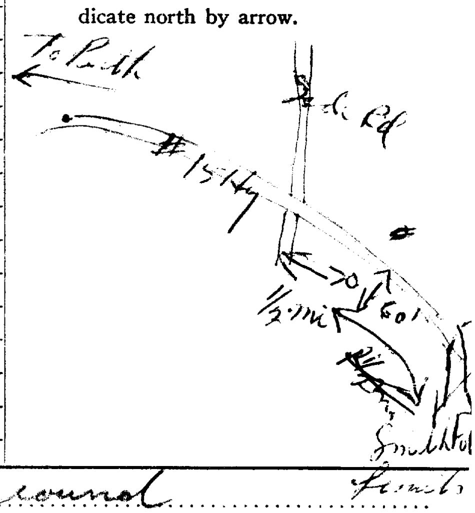
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
50 ft	fresh	30 ft

Well Log

Overburden and Bedrock Record	From	To
	0 ft.	....ft.
5 ft soil		
sandstone & limestone mixed	5	57

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Situation: Is well on upland, in valley, or on hillside? level ground
Drilling Firm ..... C. E. Morrison
Address ..... [illegible]ville Ont.
Name of Driller ..... C. E. Morrison ..... Address
Date ..... Sep 6th ..... Licence Number CSS.S8

C. E. Morrison
Signature of Licensee

Form 5

ENL 'A'
31 C/16 E

UTM |1|8| Z |4|1|7|6|9|3| E
|1|9| R |4|9|7|3|1|0|6| N

Elev. |1|9| R |0|4|1|0|
Con. V
Basin |2|5|
Lot 2

The Water-well Drillers Act, 1954
Department of Mines

GROUND WATER BRANCH
NOV 29 1957
ONTARIO WATER RESOURCES COMMISSION

No. 35 1531

Water-Well Record

County or Territorial District Lanark Township, ~~Village, Town or City~~ Elmsley North

[redacted] in Village, Town or City)

Address % George D. Howith
337 Creighton Street, Ottawa.
Agent.

(day) (month) (year)

Pipe and Casing Record		Pumping Test	
Casing diameter(s)	2 inch	Static level	3
Length(s)	26 feet	Pumping rate	3.00 g.p.h.
Type of screen	NONE	Pumping level	20 feet
Length of screen		Duration of test	1 hour

Well Log **Water Record**

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
clay and gravel	0	20	142 & 150	147 ft	fresh
lime stone & sand stone	20	150			

For what purpose(s) is the water to be used? Domestic

Is water clear or cloudy? Clear

Is well on upland, in valley, or on hillside? valley

Drilling firm Dufresne

Address 103 Sutherland Ave. Ottawa

Name of Driller E. Dufresne

Address

Licence Number 58

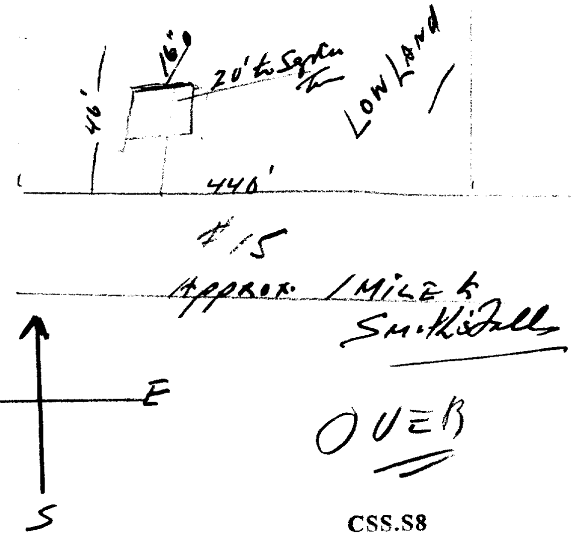
I certify that the foregoing statements of fact are true.

Date

E. Dufresne
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



OVER

Form 5

CSS.S8

ENL 'A'
31 C/16 E

UTM |18| Z |4|1|7|1|3|5| E
|9| R |4|9|7|3|1|0|8| N
Elev. G/o/m |V|4|2|0|
Basin |2|5|3|

35 № 1584

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

County or Territorial District LANARK (Township) Village, Town or City NORTH ELMSLEY
[redacted] Village, Town or City)
Address smith falls ont.
(day) (month) (year)

Pipe and Casing Record		Pumping Test	
Casing diameter(s)	5 inch	Static level	18 ft. from top
Length(s)	4 ft	Pumping rate	300 G.P.H.
Type of screen	—	Pumping level	20 ft. from top
Length of screen	—	Duration of test	1 hr.

Well Log / **Water Record**

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
old well, 16 ft	0	16			
deep.			40 to 48 ft.	30 ft.	fresh.
hard sandstone	16	48 ft			

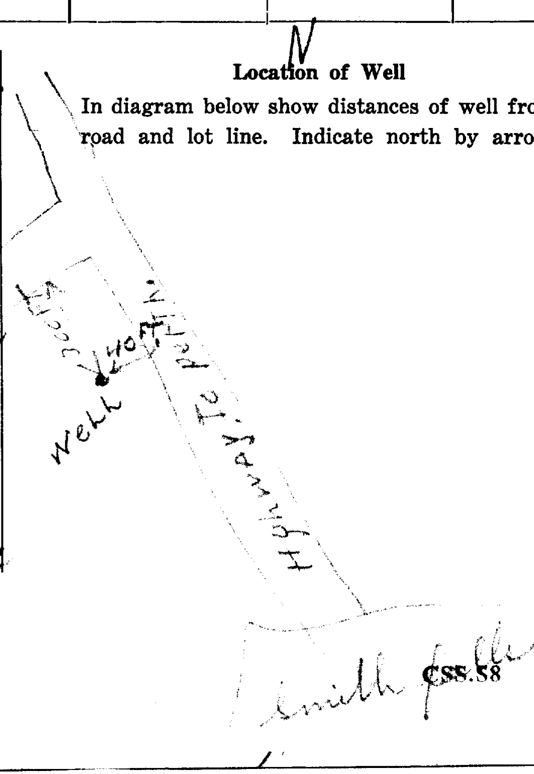
For what purpose(s) is the water to be used? house
Is water clear or cloudy? clear
Is well on upland, in valley, or on hillside? upland
Drilling firm L. V. Harrison
Address Smiths Falls Ont.
Name of Driller L. V. Harrison
Address
Licence Number 22

I certify that the foregoing statements of fact are true.

Date aug. 24th L. V. Harrison
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.58

Form 5

ENL 'A'
31 C/16 E

UTM 18 Z 461715 E
5 R 4973089 N

Elev. 5 R 01420

The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
No. 1536
AUG 7 1962
ONTARIO WATER RESOURCES COMMISSION

Basin 25 | 14
County or District LANARK
Township, Village, Town or City NORTH ELMSLEY
Con. 5 Lot 3
Date completed 17 (day) MAY (month) 1962 (year)
Address RR#2, SMITHS FALLS, ONT.

[redacted]

Casing and Screen Record

Inside diameter of casing 6 5/8 IN
Total length of casing 15 FT.
Type of screen O
Length of screen O
Depth to top of screen O
Diameter of finished hole 5 3/4 IN.

Pumping Test

Static level 18 FT.
Test-pumping rate 5 G.P.M.
Pumping level 28 FT.
Duration of test pumping 2 HR.
Water clear or cloudy at end of test CLEAR
Recommended pumping rate 4 G.P.M.
with pump setting of 25 feet below ground surface

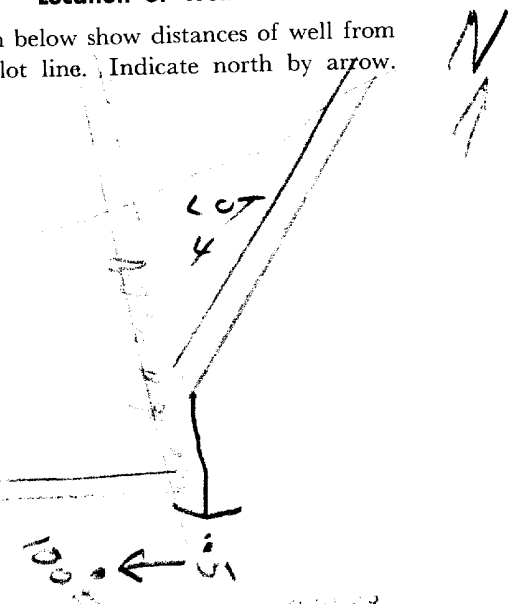
Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
BROWN EARTH	0	2	30	FRESH
BROWN SANDSTONE	2	38		

For what purpose(s) is the water to be used?
HOUSEHOLD
Is well on upland, in valley, or on hillside? UPLAND
Drilling or Boring Firm THOMPSON BROS
Address RR# 3, LANARK, ONT.
Licence Number 644
Name of Driller or Borer GERALD THOMPSON
Address RR# 3, LANARK ONT.
Date
Gerald Thompson
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M Sets 60-5930

OWRC COPY

ENL 'A'
31 C/16E

UTM 18 Z 417160 E
19 R 4973310 N
Elev. 19 R 0421
Basin 25

ONTARIO

35 No 1570

RECEIVED
MAR 28 1957
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

The Water-well Drillers Act, 1954
Department of Mines

Water-Well Record

County or Territorial District Sudbury Township, Village, Town or City North Edwardsburg
Con. 6 Lot 3 Street and Number (if in Village, Town or City)
Owner [redacted] Address Smith Falls
Date completed 18 Feb. 57. 1957
(day) (month) (year)
[redacted]

Pipe and Casing Record

Casing diameter(s) 5 1/4
Length(s) 8 ft
Type of screen None
Length of screen

Pumping Test

Static level 15 ft
Pumping rate 900 gal p hr
Pumping level 25 ft
Duration of test 1 hr.

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Sandstone	0	37	35	17	Fresh

Water Record

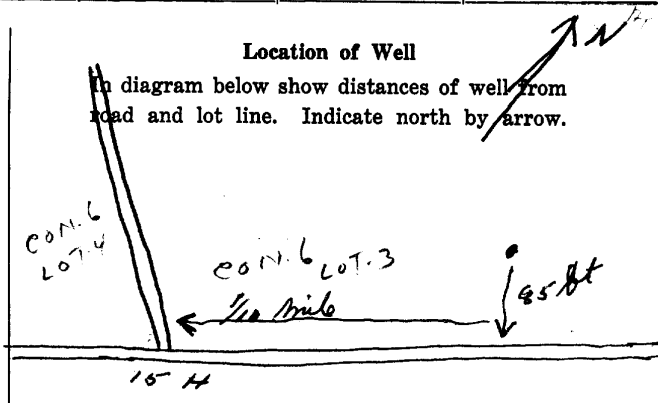
For what purpose(s) is the water to be used?
Domestic
Is water clear or cloudy? Clear
Is well on upland, in valley, or on hillside? Upland
Drilling firm W. W. Maguire
Address Smiths Falls
Name of Driller Cecil Munro
Address Smiths Falls
Licence Number 1077

I certify that the foregoing statements of fact are true.

Date Mar 26 Cecil Munro
Signature of Licensee

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 5

W

ENL 'A'
31 C/14 E

UTM 18 Z 417419 E
9 R 4973501 N

Elev. 9 R 0415

Basin 25

County or District LANARK

Township, Village, Town or City NORTH ELMSLEY

Con. 6 Lot 2

Date completed 6 (day), 8 (month), 1962 (year)

[redacted] dress SMITHS FALLS

The Ontario Water Resources Commission Act

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing 2"

Total length of casing 18 ft.

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 2"

Pumping Test

Static level 18 ft

Test-pumping rate 8 G.P.M.

Pumping level 20

Duration of test pumping 2 HRS.

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 6 G.P.M.

with pump setting of 35 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
SANDY LOAM	0	3	129	FRESH
GREY LIMESTONE	3	129		

For what purpose(s) is the water to be used?

INDUSTRIAL

Is well on upland, in valley, or on hillside?

Drilling or Boring Firm

R.H. MILLER

Address R.R. 3
BROCKVILLE

Licence Number 580

Name of Driller or Borer C. ROBERTSON

Address NORTH GOWER

Date Dec. 2, 1962

R.H. Miller

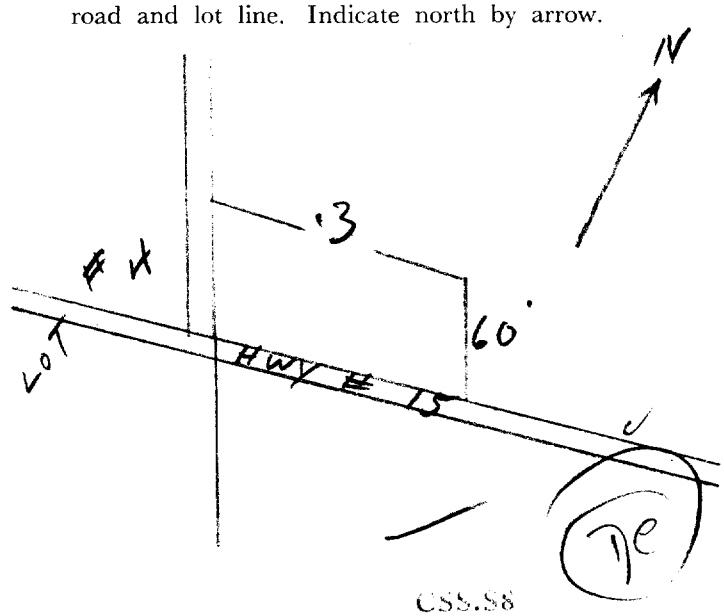
(Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.58

UTM 18 417620 E
4R 4923000 N
Elev. 5R 0415
Basin 25

3/5/66

3502306

DIVISION OF WATER RESOURCES
NOV 25 1968
ONTARIO WATER RESOURCES COMMISSION

63

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District LANARK Township, Village, Town or City NORTH ELMSLEY
Con. 5 Lot 2 Date completed 27 (day) 9 month 1968 year)

[redacted] dress R R 2 Smiths Falls Ont

Casing and Screen Record	
Inside diameter of casing	
Total length of casing	
Type of screen	
Length of screen	
Depth to top of screen	
Diameter of finished hole	6 in

Pumping Test	
Static level	
Test-pumping rate	G.P.M.
Pumping level	
Duration of test pumping	
Water clear or cloudy at end of test	
Recommended pumping rate	G.P.M.
with pump setting of 100	feet below ground surface

Well Log: Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Hard Grey Rock	94	125'	125'	

For what purpose(s) is the water to be used?

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm

Address

Licence Number

Name of Driller or Borer

Address

Date 1968

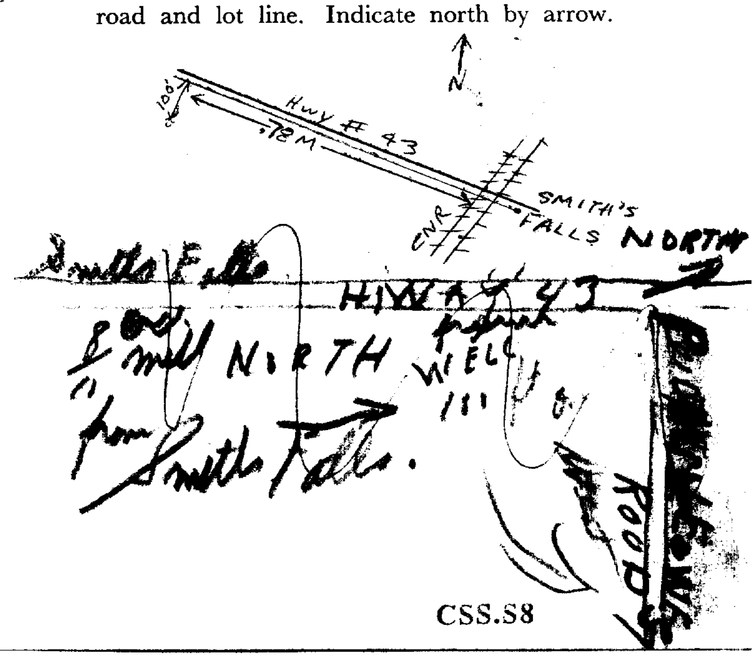
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

O W R C COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

UTM 1 8 Z 4 1 7 0 3 0 E
4 R 4 9 7 3 3 0 0 N
Elev. 5 R 0 4 2 5
Basin 2 5

31 C/16 E

3502360

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District Lanark (Township), Village, Town or City North Elmsley

Con. 6 VI Lot 3 Date completed 27 (day) 5 (month) 1968 (year)

[redacted] Address R. R. # 2, Smiths Falls, Ontario

Casing and Screen Record		Pumping Test	
Inside diameter of casing	5"	Static level	18'
Total length of casing	21'	Test-pumping rate	8 G.P.M.
Type of screen		Pumping level	60'
Length of screen		Duration of test pumping	2 hrs
Depth to top of screen		Water clear or cloudy at end of test	clear
Diameter of finished hole	5½"	Recommended pumping rate	6 G.P.M.
		with pump setting of 70 feet below ground surface	

Well Log			Water Record	
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Sand and fill	0	2		
Sandstone Shale	2	12		
Solid Brown Sandstone	12	75	73	fresh

For what purpose(s) is the water to be used? Domestic use

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm Lloyd Troddam

Address R. R. # 2, Smiths Falls, Ont

Licence Number 2827

Name of Driller or Borer Lloyd Troddam

Address R. R. # 2, Smiths Falls, Ont.

Date June 28, 1968

L. Trodden

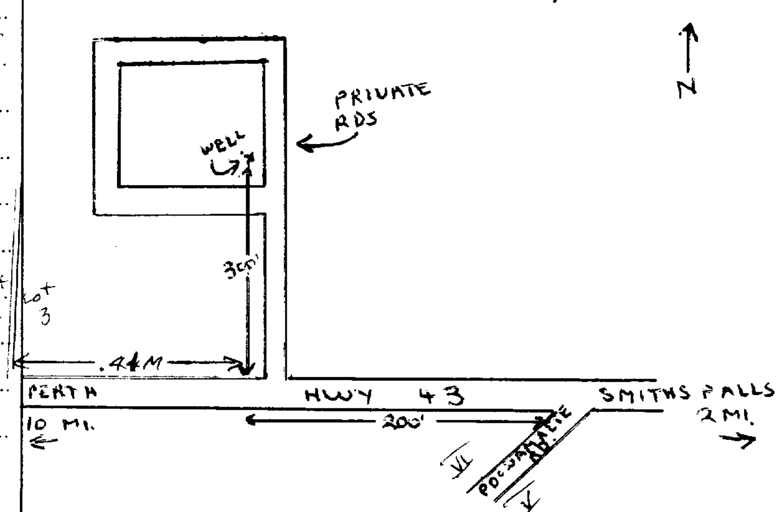
(Signature of Licensed Drilling or Boring Contractor)

Form 7 5M 60-20912

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



... 18 Z 4 1 7 0 5 0 E

4 R 4 9 2 3 2 8 0 N

ev. 5 R 0 4 2 5

asin 2 5

315/16E

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District LANARK — Township, Village, Town or City NORTH ELMSLEY

Con. 5 Lot 3 — Date completed 7 (day) MAY (month) 1969 (year)

[redacted]ess RR#2 SMITH FALLS

Casing and Screen Record

Inside diameter of casing 6

Total length of casing 26

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 6 IN

Pumping Test

Static level 8

Test-pumping rate 20 G.P.M.

Pumping level 50

Duration of test pumping 1 HOUR

Water clear or cloudy at end of test CLOUDY

Recommended pumping rate 10 G.P.M.

with pump setting of 60 feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
GREY SANDSTONE	0	72	66	FRESH

For what purpose(s) is the water to be used? DOMESTIC

Is well on upland, in valley, or on hillside? (upland circled)

Drilling or Boring Firm THOMPSON BROS

Address LANARK RR#3

Licence Number 3303

Name of Driller or Borer ROY D CAMERON

Address CLAYTON RR#2

Date May 2 1969

Carroll Thompson

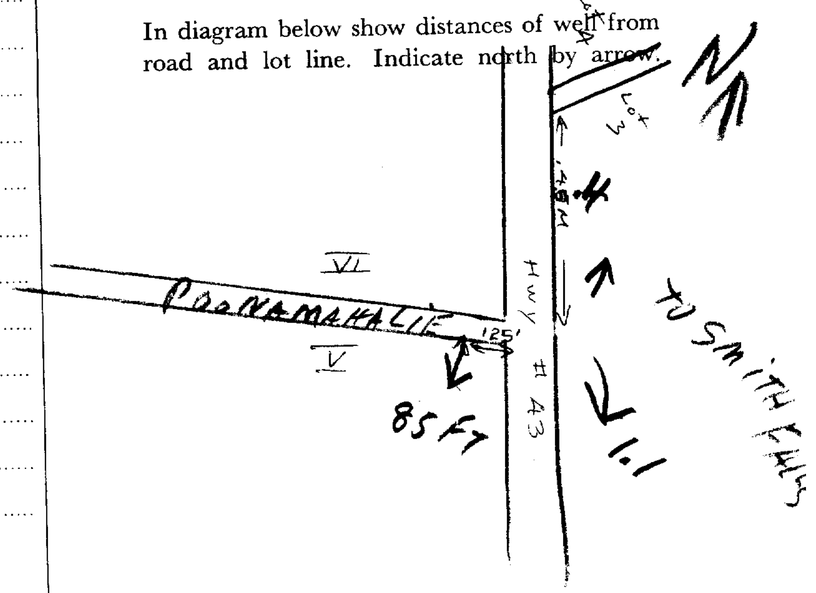
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

3/C/16E

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 (1 2) | 3502774 (3 9) | MUNICIP. 35007 (10 14) | CON. GORE 06 (15 22 23 24)

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT (25-27)
LANARK	N. ELMSLEY	III	23 003

[redacted] SMITH FALLS

DATE COMPLETED (48-53): DAY 18 MO. 11 YR 70

UTM (24) | RC (25) 4 | ELEVATION (26) 0425 | RC (30) 5 | BASIN CODE (31) 25 | II | III | IV (47)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
brown	soil			0	4
"	sandstone			4	86
#2					

31 (1 2) 0004602 | (10 14 15) 0008618 (21 32 43 54 65 75 80)

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER	
0080 (10-13)	1 ☐ FRESH 2 ☐ SALTY 5	3 ☐ SULPHUR 4 ☐ MINERAL (14)
(15-18)	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL (19)
(20-23)	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL (24)
(25-28)	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL (29)
(30-33)	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL (34 80)

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
05 (10-11)	1 ☒ STEEL (12) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		0	0025 (13-16)
(17-18)	1 ☐ STEEL (19) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0086 (20-23)
(24-25)	1 ☐ STEEL (26) 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			(27-30)

SCREEN

SIZE(S) OF OPENING (SLOT NO.) (31-33)	DIAMETER (34-38) INCHES	LENGTH (39-40) FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN (41-44) FEET	(80)

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
(10-13)	(14-17)	
(18-21)	(22-25)	
(26-29)	(30-33)	(80)

71 PUMPING TEST

PUMPING TEST METHOD (10)	PUMPING RATE (11-14)	DURATION OF PUMPING (15-16 HOURS, 17-18 MINS.)
1 ☒ PUMP 2 ☐ BAILER	0005 GPM.	HOURS MINS.

STATIC LEVEL (19-21)	WATER LEVEL END OF PUMPING (22-24)	WATER LEVELS DURING (25) 1 ☐ PUMPING 2 ☒ RECOVERY	15 MINUTES (26-28)	30 MINUTES (29-31)	45 MINUTES (32-34)	60 MINUTES (35-37)
026 FEET	031 FEET		026 FEET	026 FEET	026 FEET	026 FEET

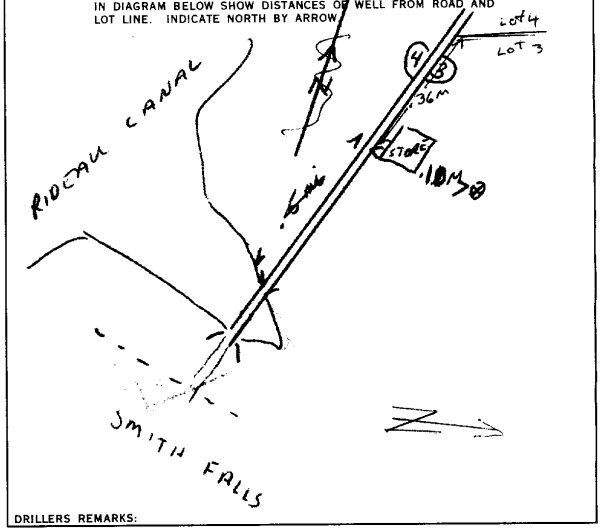
IF FLOWING, GIVE RATE (38-41)	PUMP INTAKE SET AT	WATER AT END OF TEST (42)
GPM.	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING (43-45)	RECOMMENDED PUMPING RATE (46-49)
☐ SHALLOW ☐ DEEP	FEET	0005 GPM.

(50-53) 001.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING (57)

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: C V MORRISON — LICENCE NUMBER

ADDRESS: 1X2 JASPER

NAME OF DRILLER OR BORER — LICENCE NUMBER

SIGNATURE OF CONTRACTOR: C V Morrison — SUBMISSION DATE: DAY MO. YR.

OWRC COPY

OFFICE USE ONLY

DATA SOURCE (58): 1 | CONTRACTOR (59-62): 3705 | DATE RECEIVED (63-68): 220371 (80)

DATE OF INSPECTION | INSPECTOR

REMARKS:

P 1

WI

31C16E

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

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2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 (1 2) | 3502775 (3) | MUNICIP. 35007 (10 14) | CON. CON (15) | 96 (22 23 24)

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, etc.	LOT (25-27)
LANARK LEEDS	E. N. ELMSLEY	VI	2 3 003

[redacted] SMITH FALLS

DATE COMPLETED (48-53): DAY 18 MO. 11 YR. 70

UTM (24) 173420 | RC. (25) 4 | ELEVATION (26) 0425 | RC. (30) 5 | BASIN CODE (31) 25 | II | III | IV (47)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
brown	soil			0	4
"	SANDSTONE			4	73
#3 WELL					

31 0004002 | 0073618

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0070	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0025
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0073
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☐ BAILER

PUMPING RATE: 0005 GPM | DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
030 FEET	035 FEET		030 FEET	035 FEET	035 FEET	035 FEET

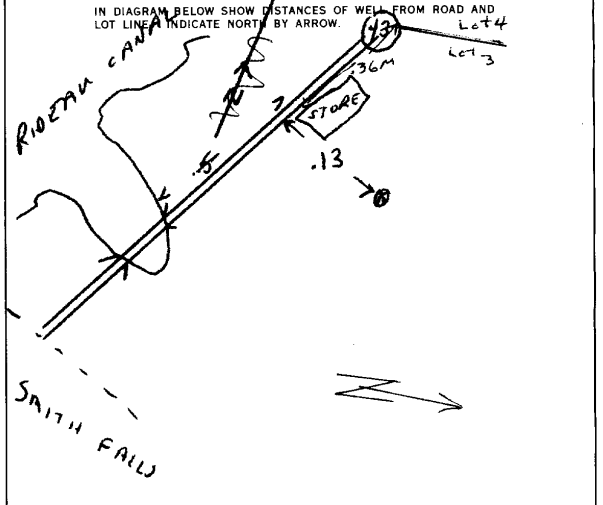
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM.	FEET	1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☐ DEEP	FEET	GPM.

50-53: 001.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINES. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54)

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56) 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING (57)

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
C V MORRISON	3705
ADDRESS	
RR 2 JASPER.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
C V Morrison	DAY MO. YR.

OWRC COPY

OFFICE USE ONLY

DATA SOURCE (58)	CONTRACTOR (59-62)	DATE RECEIVED (63-68)
1	3705	220371
DATE OF INSPECTION	INSPECTOR	
REMARKS:		P 1 WI

3/C 16 E

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

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11 | 3502776 | MUNICIP. 35002 | CON. Con | 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
LANARK ~~LEEDS~~	~~S~~ ELMSLEY NORTH	II	~~23~~ 003

[redacted] SMITH FALLS

DATE COMPLETED: DAY 04 MO. ~~Nov~~ YR. 70

	RC.	ELEVATION	RC.	BASIN CODE
73350	4	6425	5	25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET TO
brown	soil			0	3
brown	sandstone			3	60

#1

31 | 0003002 | 0060418

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0055 ~~55-60~~	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0025 ~~25~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0060
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.) | DIAMETER INCHES | LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT – FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 0005 GPM.

DURATION OF PUMPING: 01 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
026 FEET	031 FEET	026 FEET	026 FEET	026 FEET	026 FEET

WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY

IF FLOWING, GIVE RATE: GPM.

PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP

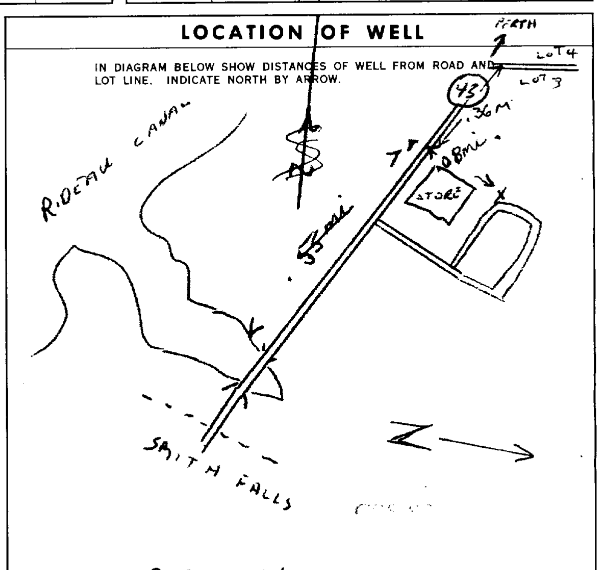
RECOMMENDED PUMP SETTING: FEET

RECOMMENDED PUMPING RATE: 0005 GPM.

0010 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS: Subdivision.

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY
2 ☐ OBSERVATION WELL
3 ☐ TEST HOLE
4 ☐ RECHARGE WELL
5 ☐ ABANDONED, INSUFFICIENT SUPPLY
6 ☐ ABANDONED, POOR QUALITY
7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC
2 ☐ STOCK
3 ☐ IRRIGATION
4 ☐ INDUSTRIAL
☐ OTHER
5 ☐ COMMERCIAL
6 ☐ MUNICIPAL
7 ☐ PUBLIC SUPPLY
8 ☐ COOLING OR AIR CONDITIONING
9 ☐ NOT USED

METHOD OF DRILLING

1 ☒ CABLE TOOL
2 ☐ ROTARY (CONVENTIONAL)
3 ☐ ROTARY (REVERSE)
4 ☐ ROTARY (AIR)
5 ☐ AIR PERCUSSION
6 ☐ BORING
7 ☐ DIAMOND
8 ☐ JETTING
9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: C U MORRISON | LICENCE NUMBER:

ADDRESS: RR 2 JASPER.

NAME OF DRILLER OR BORER: | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: C. U. Morrison | SUBMISSION DATE: DAY MO. YR.

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 3705 | DATE RECEIVED: 220371

DATE OF INSPECTION: | INSPECTOR:

REMARKS:

P 1

WI

OWRC COPY

UTM 18 Z 516935

N 4 R 4973270

Elev. 5 R 0425

Basin 25 L

3502849 — 3 9

31C/16E

CODED

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Lanark

(Township), Village, Town or City: North Elmsely

Con. 6 Lot 3

Date completed: 16 (day) June (month) 1971 (year)

Owner: [redacted]

Address: RR 3 Smiths Falls

Casing and Screen Record

Inside diameter of casing: 5"

Total length of casing: 25'

Type of screen:

Length of screen:

Depth to top of screen:

Diameter of finished hole: 6"

DIVISION OF WATER RESOURCES
AUG 30 1971
ONTARIO WATER RESOURCES COMMISSION

Pumping Test

Static level: 35'

Test-pumping rate: 5 G.P.M.

Pumping level: 45

Duration of test pumping: 1 hr.

Water clear or cloudy at end of test: Clear

Recommended pumping rate: 5 G.P.M.

with pump setting of 75 feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
soil	0	2		
sandy limestone	2	83		mineral water

For what purpose(s) is the water to be used? house

Is well on upland, in valley, or on hillside? upland

Drilling or Boring Firm: C. V. Morrison

Address: Frankville Ont

Licence Number: 3705

Name of Driller or Borer: R. C. Morrison

Address: 166 Lorne St

Date: July 19/71

C V Morrison / rcm

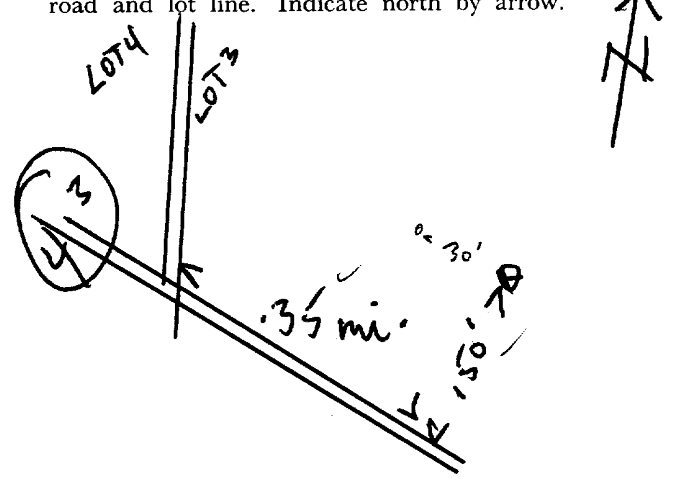
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



CSS.S8

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 3503752 | MUNICIP 35007 | CON. CON | 05

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY ETC.	LOT
Lanark	North Elmsley	5	1/2 002

[redacted] 5 Carol Crescent — DATE COMPLETED DAY 11 MO. 06 YR. 74

THING 9730009 | RC. 5 | ELEVATION 0405 | RC 5 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Soil			0	2
Blue	Clay and Gravel			2	14
White	Sandy Limestone			14	136

31 | 0002602 | 0014305111 | 0136111581

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0035	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
0090	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
0133	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0025
6 1/4				25
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER | PUMPING RATE 0010 GPM | DURATION OF PUMPING 01 HOURS 00 MINS

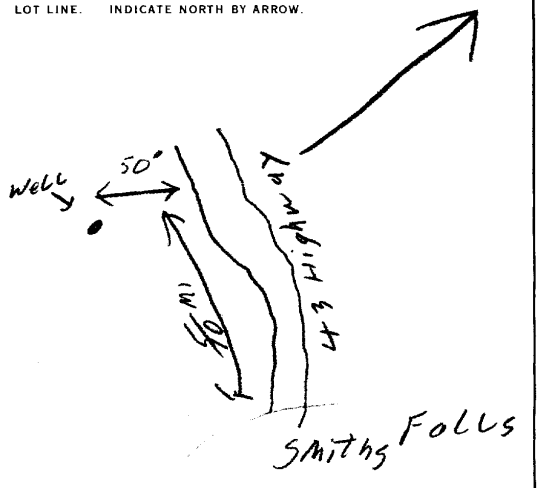
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
002 FEET	050 FEET	FEET	FEET	050 FEET	FEET

IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	80 FEET	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 1773

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 1	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 01	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING 1	1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Bill Morrison | LICENCE NUMBER 3736

ADDRESS: 166 Corne St Smiths Falls

NAME OF DRILLER OR BORER | LICENCE NUMBER

SIGNATURE OF CONTRACTOR: Bill Morrison | SUBMISSION DATE DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3736 | DATE RECEIVED 190774

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.S8 | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

31C/16E

1. PRINT ONLY IN SPACES PROVIDED
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11 — 3504372 — MUNICIP 35007 — CON. CON 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT	DATE COMPLETED
[redacted]	North Elmsley RR#3 Smiths Falls	6	003	DAY 24 MO 03 YR 76

UTM ZONE 18 — EASTING 9 23 400 — RC 5 — NORTHING 0425 — RC 5 — BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Soil & Stones			0	4
grey	Limestone			4	30
grey	Sandy "			30	158

31 — 0004 0212 — 0302 15 — 0158 215 81

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0153	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0025
6¼	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			25
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0006 GPM	00 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	050 FEET	1 ☒ PUMPING 2 ☐ RECOVERY	050 FEET	050 FEET	FEET	FEET

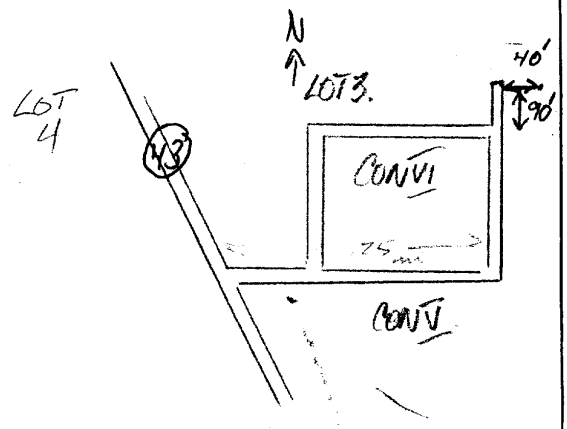
IF FLOWING, GIVE RATE — GPM — PUMP INTAKE SET AT — FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING 060 FEET — RECOMMENDED PUMPING RATE 0006 GPM

50-53 — GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 1773

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 54 — 1

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56 — 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 57 — 2

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☒ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Air Rock Drilling Co LTD. — LICENCE NUMBER: 1119

ADDRESS: RR #2 Jasper Ont.

NAME OF DRILLER OR BORER: Wallace Desaulniers — LICENCE NUMBER: 1119

SIGNATURE OF CONTRACTOR: Wallace Desaulniers — SUBMISSION DATE: DAY 24 MO. 6 YR 76

OFFICE USE ONLY

DATA SOURCE 58: 1 — CONTRACTOR 59-62: 1119 — DATE RECEIVED 63-68: 300676

DATE OF INSPECTION — INSPECTOR: PHO

REMARKS: CSS.SB

P

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3 1 C/16 E.

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11 | 3504376 | MUNICIP. 35007 | CON. CON | 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Lanark	North Elmsley	6	003

[redacted]

DATE COMPLETED: DAY 24 MO 03 YR 76

RR#3 Smiths Falls Ont.

UTHING 4973200 | RC 5 | ELEVATION 6425 | RC 5 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Fill			0	3
grey	Limestone			3	35
"	Sandy "			35	137

31 | 0003 01 | 0035215 | 01372581

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0132	1 ☒ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0025
6 1/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			25
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER	0020 GPM	00 HOURS 30 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
015 FEET	035 FEET	1 ☒ PUMPING 2 ☐ RECOVERY	035 FEET	035 FEET	FEET	FEET

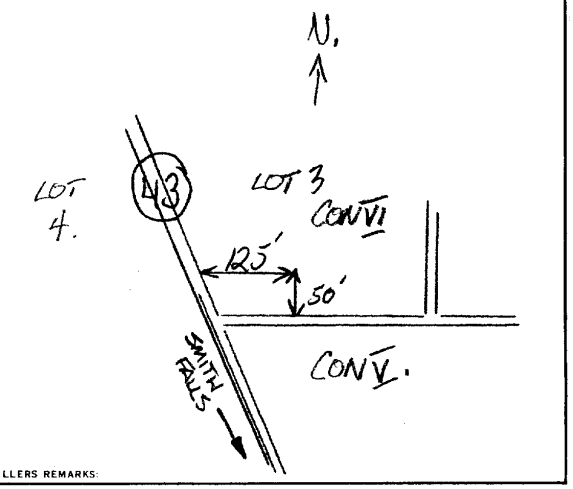
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	040 FEET	0020 GPM

50-53 ——•—— GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 1773

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 1	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL	5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 01	1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER	5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING 2	1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION	6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Co LTD. | LICENCE NUMBER: 1119

ADDRESS: RR#2 Jasper Ont.

NAME OF DRILLER OR BORER: Wallace Desaulniers | LICENCE NUMBER: 1119

SIGNATURE OF CONTRACTOR: Wallace Desaulniers | SUBMISSION DATE: DAY 24 MO. 6 YR. 76

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1119 | DATE RECEIVED 300676

DATE OF INSPECTION | INSPECTOR PHO

REMARKS: CSS.88 | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

114 Saumure Circle well

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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11 | 3504601 | MUNICIP. 35007 | CON. CON 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT 003
[redacted]	North Elmsley	5	

[redacted] 3 Smiths Falls | DATE COMPLETED DAY 10 MO. 07 YR. 76

73350 5 | ELEVATION 0425 5 | BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Red	Sand			0	2
Gray	Sand Stone			2	100

31 | 0002728 | 0100218

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0082	1 ☑ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06 6 1/4	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	25 0025
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN: SIZE(S) OF OPENING (SLOT NO.) | DIAMETER INCHES | LENGTH FEET | MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☑ PUMP 2 ☐ BAILER | PUMPING RATE 0002 GPM | DURATION OF PUMPING 01 HOURS 00 MINS

STATIC LEVEL: 018 FEET | WATER LEVEL END OF PUMPING: FEET | WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY | 15 MINUTES FEET | 30 MINUTES FEET | 45 MINUTES FEET | 60 MINUTES FEET

IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT 99 FEET | WATER AT END OF TEST: 1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP | RECOMMENDED PUMP SETTING 090 FEET | RECOMMENDED PUMPING RATE 0002 GPM

GPM./FT. SPECIFIC CAPACITY

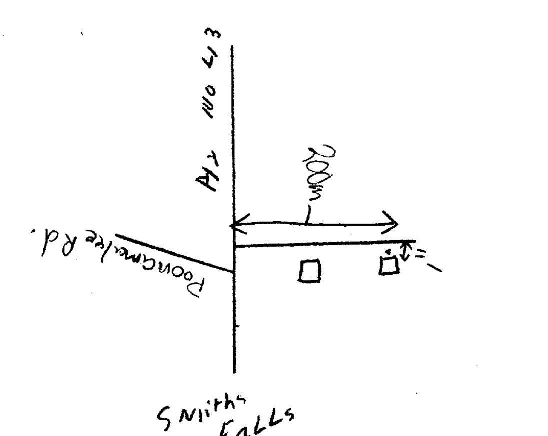
FINAL STATUS OF WELL 1: 1 ☑ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01: 1 ☑ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 4: 1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☑ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

CONTRACTOR: NAME OF WELL CONTRACTOR: Wi[illegible] | LICENCE NUMBER 2558
ADDRESS: McDonalds Corners
NAME OF DRILLER OR BORER: Ron[illegible] Cooper | LICENCE NUMBER 1670
SIGNATURE OF CONTRACTOR: [illegible] | SUBMISSION DATE DAY 21 MO. 12 YR. 76

P-5 (stamp)

OFFICE USE ONLY: DATA SOURCE 1 | CONTRACTOR 2558 | DATE RECEIVED 020377
DATE OF INSPECTION July 15/77 | INSPECTOR 95
REMARKS: | P 75 | WI

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FORM 7 MOE 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

31C16

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(11) 3504698 | MUNICIP. 35007 | CON. C&N | 05

COUNTY OR DISTRICT: [redacted]
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Elmsley
CON., BLOCK, TRACT, SURVEY, ETC.: 5 V
LOT: 003
DATE COMPLETED: DAY 26 MO 04 YR 77
RR #3 Smiths Falls Ont.
UTM: 772999 | ELEVATION: 0425 | BASIN CODE: 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	soil			0	2
grey	Sandy Limestone			2	124

(31) 0002 02 01242158I
(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0118	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

(61) CASING & OPEN HOLE RECORD

INSIDE DIAM. - INCHES	MATERIAL	WALL THICKNESS - INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	025
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER - INCHES	LENGTH - FEET

MATERIAL AND TYPE: | DEPTH TO TOP OF SCREEN - FEET:

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) PUMPING TEST

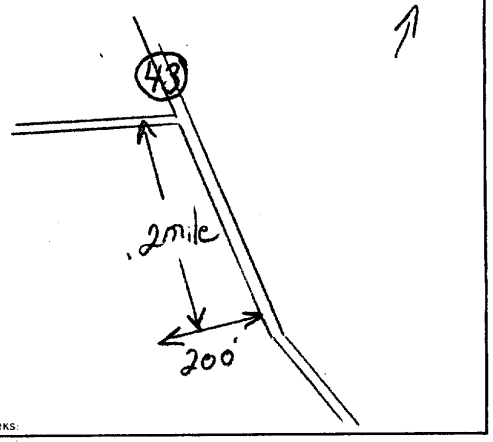
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 0009 GPM
DURATION OF PUMPING: 00 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
030 FEET	080 FEET	080 FEET	080 FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 090 FEET
RECOMMENDED PUMPING RATE: 0008 GPM
GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 2
1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Co LTD. | LICENCE NUMBER: 1119
ADDRESS: RR #2 Jasper Ont.
NAME OF DRILLER OR BORER: Wallace Desaulniers | LICENCE NUMBER: 1119
SIGNATURE OF CONTRACTOR: Wallace Desaulniers | SUBMISSION DATE: DAY 3 MO. 8 YR 77

MINISTRY OF THE ENVIRONMENT COPY

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DATA SOURCE: | CONTRACTOR: 1119 | DATE RECEIVED: 080877
DATE OF INSPECTION: | INSPECTOR:
REMARKS: (2)
CSS.S8
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FORM 7 MOE 07-091

Ministry of the Environment

Ontario

The Ontario Water Resources Act 31C16

WATER WELL RECORD

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(11) 3505025 MUNICIP. 35007 CON. CON 05

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Lanark	North Elmsley	5 V	002

[redacted] RR# 3 Smiths Falls Ont. DATE COMPLETED DAY 29 MO 03 YR 78

UTM 972999 5 0425 5 26 ELEVATION ORIGIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	clay			0	11
grey	limestone			11	90
"	sandstone			90	1411

(31) 00111 02 0090215 0144218

(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0139	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0022
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

PUMPING TEST

(71) PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0009 GPM

DURATION OF PUMPING: 00 HOURS 30 MINS

(25) WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	025 FEET	025 FEET	025 FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

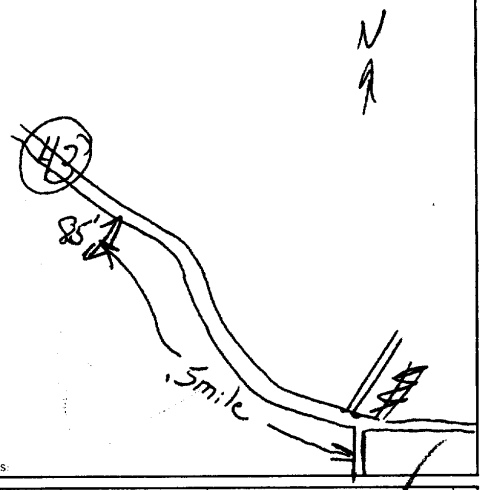
RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP

RECOMMENDED PUMP SETTING: 030 FEET

RECOMMENDED PUMPING RATE: 0009 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL (54): 1

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE (55-56): 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING (57): 2

1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Co Ltd. LICENCE NUMBER: 1119

ADDRESS: RR# 2 Jasper Ont.

NAME OF DRILLER OR BORER: Wallace Desaulniers LICENCE NUMBER: 1119

SIGNATURE OF CONTRACTOR: Wallace Desaulniers SUBMISSION DATE: DAY 4 MO. 4 YR. 78

OFFICE USE ONLY

DATA SOURCE (58): 1 CONTRACTOR (59-62): 1119 DATE RECEIVED (63-68): 060478

DATE OF INSPECTION: INSPECTOR: KR

REMARKS: (1)

CSS.S8

FORM NO. 0506—4—77

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Ministry of the Environment

Ontario

The Ontario Water Resources Act

31C16

WATER WELL RECORD

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11 — 3505040 — MUNICIP. 35007 — CON. CON — 05

COUNTY OR DISTRICT: [redacted]

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: North Elmsley

CON., BLOCK, TRACT, SURVEY, ETC.: IV — 5

LOT: 003

DATE COMPLETED: DAY 04 MO 06 YR 78

[redacted] Smith Falls

72999 — 5 — 0925 — 5 — 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
BRN	SAND	STONE		0	129

JUN 04 1978

MOE WF-18

31 — 0129618

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0125	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	20
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☑ BAILER

PUMPING RATE: 0010 GPM — DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	060 FEET	040 FEET	060 FEET	060 FEET	060 FEET

IF FLOWING GIVE RATE: GPM

PUMP INTAKE SET AT: 90 FEET

WATER AT END OF TEST: 1 ☐ CLEAR 2 ☑ CLOUDY

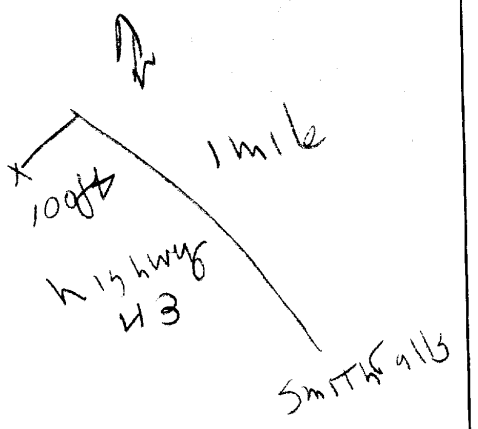
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP

RECOMMENDED PUMP SETTING: FEET

RECOMMENDED PUMPING RATE: 0005 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

FINAL STATUS OF WELL 1

1 ☑ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☑ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 1

1 ☑ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry L Davis — LICENCE NUMBER: 1707

ADDRESS: Addison

NAME OF DRILLER OR BORER: Gary Engle — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: [signature] — SUBMISSION DATE: DAY 6 MO 5 YR 78

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 1707 — DATE RECEIVED: 160678

DATE OF INSPECTION — INSPECTOR

REMARKS: (4) C35.38

FORM NO. 0506—4—77

MINISTRY OF THE ENVIRONMENT COPY

3IC16E

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

(11) 3505850 MUNICIP. 35010 CON. CON 05

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]		V 5	029

DATE COMPLETED DAY 18 MO. 06 YR. 80

(21) 74199 5 ELEVATION 0425 5 BASIN CODE 86

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Previous drilled				00	71
Gry	Lime stone			71	112

(31) 0071 24 0112 15

32

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0110	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
(scribbled out)	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.) | DIAMETER INCHES | LENGTH FEET
MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE: 0010 GPM
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	020 FEET	020 FEET	020 FEET	020 FEET	020 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: 90 FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: FEET
RECOMMENDED PUMPING RATE: 0005 GPM

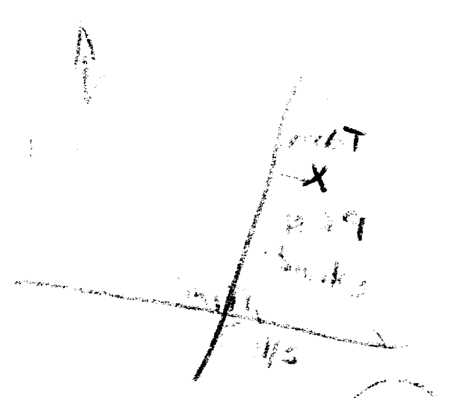
FINAL STATUS OF WELL 1
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 15
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☒ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 1
1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

CONTRACTOR

NAME OF WELL CONTRACTOR: Henry L Davis | LICENCE NUMBER: 1707
ADDRESS: Addison ont
NAME OF DRILLER OR BORER: [illegible] | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [signature] | SUBMISSION DATE DAY 26 MO. 6 YR. 80

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 1707 | DATE RECEIVED 210780
DATE OF INSPECTION | INSPECTOR K
REMARKS
CSS.ES

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FORM NO. 0506—4—77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act **31 C16E**

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

(11) 3506496 MUNICIP. 35010 CON. CON 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Montague	6 VI	030

[redacted] Perth ont. DATE COMPLETED DAY 09 MO 12 YR 82

[redacted] 74199 5 0415 5 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
BRN	sand stone			0	114

MOE VE17

(31) 0114618

32

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0112	☑ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06	☑ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	188	0	0020
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE — DEPTH TO TOP OF SCREEN FEET

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) PUMPING TEST

PUMPING TEST METHOD: ☐ PUMP ☑ BAILER — PUMPING RATE 0010 GPM — DURATION OF PUMPING 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
020 FEET	025 FEET	025 FEET	025 FEET	025 FEET	025 FEET

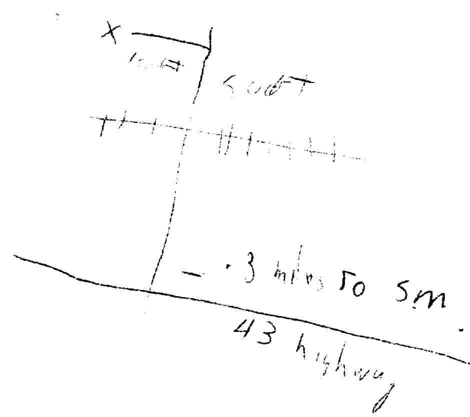
WATER LEVELS DURING: ☑ PUMPING ☐ RECOVERY

IF FLOWING, GIVE RATE: GPM — PUMP INTAKE SET AT 50 FEET — WATER AT END OF TEST: ☑ CLEAR ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP — RECOMMENDED PUMP SETTING FEET — RECOMMENDED PUMPING RATE 0005 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

FINAL STATUS OF WELL 1
☑ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE 01
☑ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING 1
☑ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☐ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Davis — LICENCE NUMBER 1707
ADDRESS: Allison ont
NAME OF DRILLER OR BORER: D Irish — LICENCE NUMBER
SIGNATURE OF CONTRACTOR: [signature] — SUBMISSION DATE DAY 11 MO 12 YR 82

OFFICE USE ONLY

DATA SOURCE 1 — CONTRACTOR 1707 — DATE RECEIVED 030683
DATE OF INSPECTION — INSPECTOR
REMARKS: CSS.ES

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Ministry of the Environment
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

3508204

1. PRINT ONLY IN SPACES PROVIDED
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11 | MUNICIP | CON.

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC	LOT
[redacted]	MonTague	6	30

Smiths Falls OnT

DATE COMPLETED: DAY 9 MO 6 YR 82

ELEVATION | RC | BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	clay & STones.			0	12
	gravel			12	14
grey & brown	Sandstone			14	70

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
65	☒ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERALS ☐ GAS
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERALS ☐ GAS
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERALS ☐ GAS
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERALS ☐ GAS
	☐ FRESH ☐ SALTY ☐ SULPHUR ☐ MINERALS ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC	.188	0	22
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC			
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

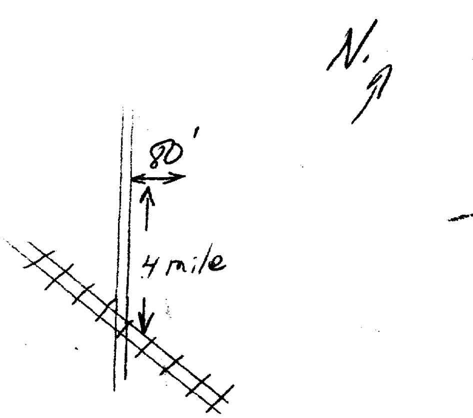
DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☒ PUMP ☐ BAILER	PUMPING RATE: 20 GPM	DURATION OF PUMPING: 1 HOURS, MINS		
STATIC LEVEL: 2 FEET	WATER LEVEL END OF PUMPING: 40 FEET	WATER LEVELS DURING ☒ PUMPING ☐ RECOVERY: 15 MINUTES 40 FEET	30 MINUTES 40 FEET	45 MINUTES 40 FEET; 60 MINUTES 40 FEET
IF FLOWING, GIVE RATE: GPM	PUMP INTAKE SET AT: FEET	WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY		
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP	RECOMMENDED PUMP SETTING: 50 FEET	RECOMMENDED PUMPING RATE: 20 GPM		

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS:

11015

FINAL STATUS OF WELL
☒ WATER SUPPLY
☐ OBSERVATION WELL
☐ TEST HOLE
☐ RECHARGE WELL
☐ ABANDONED, INSUFFICIENT SUPPLY
☐ ABANDONED, POOR QUALITY
☐ UNFINISHED
☐ DEWATERING

WATER USE
☒ DOMESTIC
☐ STOCK
☐ IRRIGATION
☐ INDUSTRIAL
☐ OTHER
☐ COMMERCIAL
☐ MUNICIPAL
☐ PUBLIC SUPPLY
☐ COOLING OR AIR CONDITIONING
☐ NOT USED

METHOD OF CONSTRUCTION
☐ CABLE TOOL
☐ ROTARY (CONVENTIONAL)
☐ ROTARY (REVERSE)
☐ ROTARY (AIR)
☒ AIR PERCUSSION
☐ BORING
☐ DIAMOND
☐ JETTING
☐ DRIVING
☐ DIGGING
☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Co. LTD.
WELL CONTRACTOR'S LICENCE NUMBER: 1119
ADDRESS: RR # 2 Jasper OnT
NAME OF WELL TECHNICIAN: Barry Galway
WELL TECHNICIAN'S LICENCE NUMBER: T005
SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature]
SUBMISSION DATE: DAY 30 MO 12 YR 87

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR | DATE RECEIVED: JAN 08 1988
DATE OF INSPECTION | INSPECTOR
REMARKS: CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

2-3 5

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11 3509649 MUNICIP 35007 CON. CON. 05

COUNTY OR DISTRICT: Lanark
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: North Elmsley Smiths Falls Ont
CON. BLOCK, TRACT, SURVEY, ETC: 5
LOT: 2-3
DATE COMPLETED: DAY 23 MO 4 YR 90

[redacted]

RC. ELEVATION RC BASIN CODE

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	clay & gravel			0	28
grey	sandstone			28	158

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
145	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
152	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	33
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	DEPTH SET AT - FEET TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)

71 PUMPING TEST

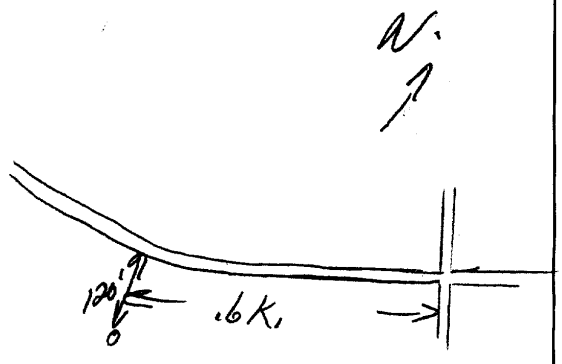
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 12 GPM
DURATION OF PUMPING: 1 HOURS ____ MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
8 FEET	50 FEET	50 FEET	50 FEET	50 FEET	50 FEET

IF FLOWING, GIVE RATE: ____ GPM
PUMP INTAKE SET AT: ____ FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING: 60 FEET
RECOMMENDED PUMPING RATE: 12 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



48230

DRILLERS REMARKS

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED ☐ DEWATERING

WATER USE

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF CONSTRUCTION

1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☒ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Air-Rock Drilling Ltd
WELL CONTRACTOR'S LICENCE NUMBER: 1119
ADDRESS: R.R. #2 Tay per Ont
NAME OF WELL TECHNICIAN: Randy Kerr
WELL TECHNICIAN'S LICENCE NUMBER: 7021
SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature]
SUBMISSION DATE: DA 20 MO 12 YR 90

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR: 1119
DATE RECEIVED: JAN 18 1991
DATE OF INSPECTION
INSPECTOR
REMARKS: CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 — 3513519 — Municipality 35007 — Con. CON — 06

County or District: Lanark [redacted]
Township/Borough/City/Town/Village: North Emsley
Con block tract survey, etc.: 6
Lot: 2
Address: Smiths Falls, Ont
Date completed: 27 day 08 month 01 year

21 — UTM — Northing — RC — Elevation — RC — Basin Code — ii — iii — iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	Sandy Soil			0	5
grey	Sandy limestone			5	85
"	Sandstone			85	165

31
32

41 WATER RECORD

Water found at - feet	Kind of water
161	1 ☒ Fresh 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 6 ☐ NOT USED — 2 ☐ Salty
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas 6 ☐ NOT USED — 2 ☐ Salty
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas — 2 ☐ Salty
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas — 2 ☐ Salty
	1 ☐ Fresh 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas — 2 ☐ Salty

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	188	0	22
8 3/4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic		0	20
6	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☒ Open hole 5 ☐ Plastic		20	165

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet

Material and type: | Depth at top of screen feet:

61 PLUGGING & SEALING RECORD

☒ Annular space ☐ Abandonment

Depth set at - From	Depth set at - To	Material and type (Cement grout, bentonite, etc.)
2	22	Cement grout

71 PUMPING TEST

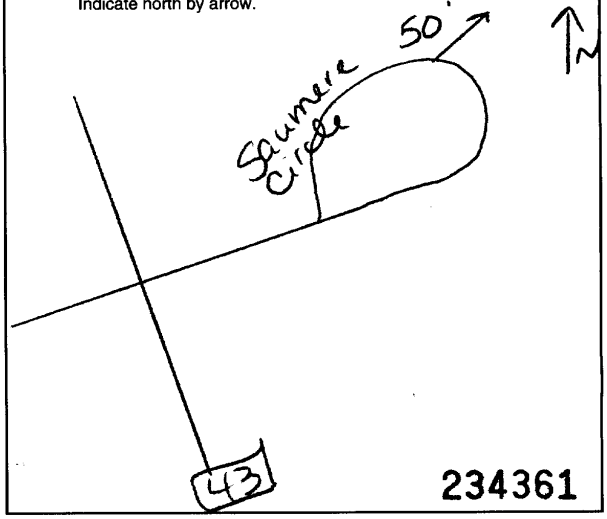
Pumping test method: 1 ☐ Pump 2 ☐ Bailer
Pumping rate: 100 GPM
Duration of pumping: 1 Hours ..... Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☒ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
42 feet	80 feet	42 feet	42 feet	42 feet	42 feet

If flowing give rate: GPM
Pump intake set at: feet
Water at end of test: ☐ Clear ☒ Cloudy
Recommended pump type: ☐ Shallow ☒ Deep
Recommended pump setting: 80 feet
Recommended pump rate: 100 GPM

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.



234361

FINAL STATUS OF WELL

☒ 1 Water supply
☐ 2 Observation well
☐ 3 Test hole
☐ 4 Recharge well
☐ 5 Abandoned, insufficient supply
☐ 6 Abandoned, poor quality
☐ 7 Abandoned (Other)
☐ 8 Dewatering
☐ 9 Unfinished
☐ 10 Replacement well

WATER USE

☒ 1 Domestic
☐ 2 Stock
☐ 3 Irrigation
☐ 4 Industrial
☐ 5 Commercial
☐ 6 Municipal
☐ 7 Public supply
☐ 8 Cooling & air conditioning
☐ 9 Not use
☐ 10 Other .....

METHOD OF CONSTRUCTION

☐ 1 Cable tool
☐ 2 Rotary (conventional)
☐ 3 Rotary (reverse)
☐ 4 Rotary (air)
☒ 5 Air percussion
☐ 6 Boring
☐ 7 Diamond
☐ 8 Jetting
☐ 9 Driving
☐ 10 Digging
☐ 11 Other .....

Name of Well Contractor: Air Rock Drilling Ltd. — Well Contractor's Licence No.: 1119
Address: RR#2 Jasper, Ont
Name of Well Technician: Ken Sayers — Well Technician's Licence No.: T4
Signature of Technician/Contractor: — Submission date: 12 day 09 mo 01 yr

MINISTRY USE ONLY

Data source | Contractor: 1119 | Date received: OCT 09 2001
Date of inspection | Inspector
Remarks

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 (1 2) **3513956** Municipality 35007 (10 14) Con. CON (15 22 23 24) 06

Lanark

County or District: Leeds

[redacted]

Township/Borough/City/Town/Village: North Elmsley

Con block tract survey, etc.: 6

Lot: 3 (25-27)

Address: Smiths Falls, Ont

Date completed: 17 day 10 month 02 year (48-53)

21 (1 2) UTM (10 12 17 18 24) Northing RC (25) Elevation RC (26 30) Basin Code (31 47) ii iii iv

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
	rocky earth			0	2
grey	Limestone			2	141

31 (10 14 15 21 32 43 54 65 75 80)

32

41 WATER RECORD

Water found at - feet	Kind of water
136 (10-13)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (14)
(15-18)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 5 ☐ Gas (19)
(20-23)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (24)
(25-28)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (29)
(30-33)	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas (34)

60

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6¼ (10-11)	1 ☑ Steel (12) 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	188	0	22 (13-16)
8¾ (17-18)	1 ☐ Steel (19) 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		0	20 (20-23)
6 (24-25)	1 ☐ Steel (26) 2 ☐ Galvanized 3 ☐ Concrete 4 ☑ Open hole 5 ☐ Plastic		20	141 (27-30)

SCREEN

Sizes of opening (Slot No.) (31-33)	Diameter (34-38) inches	Length (39-40) feet
Material and type	Depth at top of screen (41-44) feet	(30)

61 PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
2 (10-13)	22 (14-17)	Cement grout
(18-21)	(22-25)	
(26-29)	(30-33)	(80)

PUMPING TEST

71 Pumping test method (10): 1 ☑ Pump 2 ☐ Bailer

Pumping rate (11-14): 50 GPM

Duration of pumping (15-16): 1 Hours ..... (17-18) Mins

Static level	Water level end of pumping	Water levels during (25): 1 ☐ Pumping 2 ☑ Recovery			
25 (19-21) feet	130 (22-24) feet	15 minutes (26-28) 25 feet	30 minutes (29-31) 25 feet	45 minutes (32-34) 25 feet	60 minutes (35-37) 25 feet

If flowing give rate (38-41): GPM

Pump intake set at: feet

Water at end of test (42): ☐ Clear ☑ Cloudy

Recommended pump type: ☐ Shallow ☑ Deep

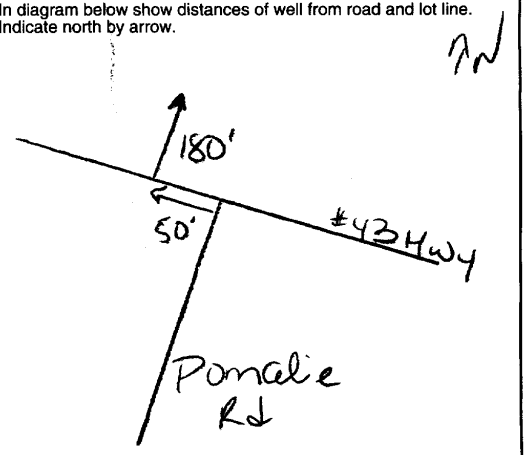
Recommended pump setting (43-45): 130 feet

Recommended pump rate (46-49): 50 GPM

(50-53)

LOCATION OF WELL

In diagram below show distances of well from road and lot line.
Indicate north by arrow.



248196

FINAL STATUS OF WELL (54)

1 ☑ Water supply 2 ☐ Observation well 3 ☐ Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE (55-56)

1 ☑ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 10 ☐ Other .....

METHOD OF CONSTRUCTION (57)

1 ☐ Cable tool 2 ☐ Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☑ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other .....

Name of Well Contractor	Well Contractor's Licence No.
A. Koch Drilling Ltd	1119
Address: RR#1 Richmond, Ont	
Name of Well Technician: Ken Desaulniers	Well Technician's Licence No.: T4
Signature of Technician/Contractor	Submission date: 28 day 10 mo 02 yr

MINISTRY USE ONLY

Data source (58)	Contractor (59-62): 1119	Date received (63-68): NOV 04 2002 (80)
Date of inspection	Inspector	
Remarks		

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: Tag#: A 228111

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
3618 Hwy 43 Smith Falls	Drumond N. Elmsley	2	5
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Leeds Grenville	Smith Falls	Ontario	K7A4S4
UTM Coordinates Zone	Easting	Northing	**Municipal Plan and Sublot Number**	**Other**
NAD 83 18	0417350	4973326		

Overburden and Bedrock Materials/Abandonment Sealing Record *(see instructions on the back of this form)*

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	Depth (m/ft) To
Brown	Sand			0	5
Gray	Limestone			5	22
Gray	Limestone			22	80
Gray	Brown Sandstone			80	148

Chlorine Residuals Collected And Recorded At 125 Milligrams Per Liter

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	22	Quick Grout	3 Bags

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☒ Air percussion ☐ Other, specify ____

Well Use

☐ Public ☐ Commercial ☐ Not used ☒ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify ____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	Depth (m/ft) To
6 1/8"	Steel	186	0	22

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To

Status of Well

☒ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ____ ☐ Other, specify ____

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☒ Untested ☐ Other, specify ____
138		
Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify ____
Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	22	10 1/1
22	148	6 1/8

Results of Well Yield Testing

After test of well yield, water was: ☒ Clear and sand free ☐ Other, specify ____

If pumping discontinued, give reason: 0

Pump intake set at (m/ft): 140 Ft

Pumping rate (l/min / GPM): 20 GPM

Duration of pumping: 1 hrs + ____ min

Final water level end of pumping (m/ft): 18 FT

If flowing give rate (l/min / GPM): 0

Recommended pump depth (m/ft): 100 FT

Recommended pump rate (l/min / GPM): 15 GPM

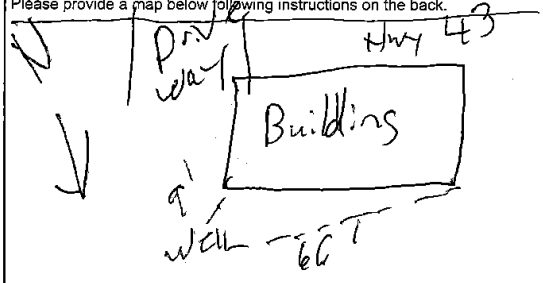
Well production (l/min / GPM): 20 GPM

Disinfected? ☒ Yes ☐ No 125 MPL

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	17		18
1	18	1	17
2	18	2	17
3	19	3	17
4	18	4	17
5	18	5	17
10	18	10	17
15	18	15	17
20	18	20	17
25	18	25	17
30	18	30	17
40	18	40	17
50	18	50	17
60	18	60	17

Map of Well Location

Please provide a map below following instructions on the back.



Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
362845 Ont Limited	6515

Business Address (Street Number/Name)	Municipality
4446 Hurray Rd	Brockville Elizabethtown

Province	Postal Code	Business E-mail Address
Ont.	K6V5T4	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 926 2864	Dave Irish

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
10144		2020/11/26

Comments:

Well owner's information package delivered: ☒ Yes ☐ No

Date Package Delivered: 2020/11/28

Date Work Completed: 2020/11/28

Ministry Use Only

Audit No. Z325275

Received JAN 26 2021

0506E (2018/12)

Ministry's Copy

RLC-HydroG

ATTACHMENT G

Laboratory Certificate of Analysis – TP2-9

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.

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

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

==========

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 #: 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)

TP2-9

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.

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

TP2-9

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

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 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

TP2-9

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.

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RLC-HydroG

ATTACHMENT H

Laboratory Certificate of Analysis – Borehole Soils

Your Project #: COMPOST SITE
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: 2025/07/03
Report #: R8569338
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C577434
Received: 2025/06/28, 11:30

Sample Matrix: Soil
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	13	N/A	2025/07/03	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	13	2025/07/03	2025/07/03	CAM SOP-00408	R153 Ana. Prot. 2011
Hexavalent Chromium in Soil by IC (1, 2)	13	2025/07/03	2025/07/03	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 3)	7	N/A	2025/06/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 3)	6	N/A	2025/07/01	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 4)	13	2025/06/30	2025/07/01	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	4	2025/07/03	2025/07/03	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	13	2025/07/02	2025/07/02	CAM SOP-00447	EPA 6020B m
Moisture (1)	13	N/A	2025/06/28	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	1	2025/07/02	2025/07/02	CAM SOP-00318	EPA 8270E
PAH Compounds in Soil by GC/MS (SIM) (1)	12	2025/07/02	2025/07/03	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.

Your Project #: COMPOST SITE
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: 2025/07/03
Report #: R8569338
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C577434

Received: 2025/06/28, 11:30

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) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

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

(3) 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.

(4) 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
03 Jul 2025 17:46:45

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.

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID		ASLF63	ASLF64			ASLF64			ASLF65		
Sampling Date		2025/06/24 10:00	2025/06/24 10:30			2025/06/24 10:30			2025/06/25 10:00		
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**
Inorganics											
Chromium (VI)	ug/g	ND	ND	0.18	9962182	ND	0.18	9962182	ND	0.18	9962182
Metals											
Hot Water Ext. Boron (B)	ug/g	0.15	ND	0.050	9962324				0.22	0.050	9962324
Acid Extractable Antimony (Sb)	ug/g	ND	ND	0.20	9961905				0.25	0.20	9961905
Acid Extractable Arsenic (As)	ug/g	1.9	ND	1.0	9961905				2.4	1.0	9961905
Acid Extractable Barium (Ba)	ug/g	65	52	0.50	9961905				62	0.50	9961905
Acid Extractable Beryllium (Be)	ug/g	0.26	ND	0.20	9961905				0.22	0.20	9961905
Acid Extractable Boron (B)	ug/g	ND	ND	5.0	9961905				ND	5.0	9961905
Acid Extractable Cadmium (Cd)	ug/g	ND	ND	0.10	9961905				ND	0.10	9961905
Acid Extractable Chromium (Cr)	ug/g	11	8.5	1.0	9961905				12	1.0	9961905
Acid Extractable Cobalt (Co)	ug/g	4.6	3.6	0.10	9961905				3.1	0.10	9961905
Acid Extractable Copper (Cu)	ug/g	9.7	7.6	0.50	9961905				12	0.50	9961905
Acid Extractable Lead (Pb)	ug/g	7.7	3.0	1.0	9961905				17	1.0	9961905
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	0.50	9961905				1.4	0.50	9961905
Acid Extractable Nickel (Ni)	ug/g	7.6	5.3	0.50	9961905				7.5	0.50	9961905
Acid Extractable Selenium (Se)	ug/g	ND	ND	0.50	9961905				ND	0.50	9961905
Acid Extractable Silver (Ag)	ug/g	ND	ND	0.20	9961905				ND	0.20	9961905
Acid Extractable Thallium (Tl)	ug/g	0.074	0.052	0.050	9961905				0.070	0.050	9961905
Acid Extractable Uranium (U)	ug/g	0.45	0.41	0.050	9961905				0.40	0.050	9961905
Acid Extractable Vanadium (V)	ug/g	24	18	5.0	9961905				16	5.0	9961905
Acid Extractable Zinc (Zn)	ug/g	19	11	5.0	9961905				29	5.0	9961905
Acid Extractable Mercury (Hg)	ug/g	ND	ND	0.050	9961905				0.056	0.050	9961905

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.

BUREAU VERITAS

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID		ASLF66	ASLF67	ASLF68	ASLF69			ASLF69		
Sampling Date		2025/06/25 10:30	2025/06/25 10:45	2025/06/25 11:30	2025/06/25 10:45			2025/06/25 10:45		
COC Number		N/A	N/A	N/A	N/A			N/A		
	UNITS	**S4**	**S5**	**S6**	**S7**	**RDL**	**QC Batch**	**S7 Lab-Dup**	**RDL**	**QC Batch**
Inorganics										
Chromium (VI)	ug/g	ND	ND	ND	ND	0.18	9962182			
Metals										
Hot Water Ext. Boron (B)	ug/g	0.24	0.070	0.43	0.11	0.050	9962324	0.098	0.050	9962324
Acid Extractable Antimony (Sb)	ug/g	ND	ND	0.55	ND	0.20	9961905			
Acid Extractable Arsenic (As)	ug/g	1.5	1.1	2.8	1.4	1.0	9961905			
Acid Extractable Barium (Ba)	ug/g	77	51	110	100	0.50	9961905			
Acid Extractable Beryllium (Be)	ug/g	ND	ND	0.34	ND	0.20	9961905			
Acid Extractable Boron (B)	ug/g	ND	ND	ND	ND	5.0	9961905			
Acid Extractable Cadmium (Cd)	ug/g	ND	ND	0.25	ND	0.10	9961905			
Acid Extractable Chromium (Cr)	ug/g	11	8.6	18	11	1.0	9961905			
Acid Extractable Cobalt (Co)	ug/g	3.3	3.1	4.8	3.1	0.10	9961905			
Acid Extractable Copper (Cu)	ug/g	6.8	6.5	16	9.0	0.50	9961905			
Acid Extractable Lead (Pb)	ug/g	30	3.1	75	4.0	1.0	9961905			
Acid Extractable Molybdenum (Mo)	ug/g	0.80	ND	1.3	ND	0.50	9961905			
Acid Extractable Nickel (Ni)	ug/g	5.9	5.3	25	6.0	0.50	9961905			
Acid Extractable Selenium (Se)	ug/g	ND	ND	ND	ND	0.50	9961905			
Acid Extractable Silver (Ag)	ug/g	ND	ND	ND	ND	0.20	9961905			
Acid Extractable Thallium (Tl)	ug/g	0.094	ND	0.10	ND	0.050	9961905			
Acid Extractable Uranium (U)	ug/g	0.43	0.44	0.51	0.47	0.050	9961905			
Acid Extractable Vanadium (V)	ug/g	20	19	26	20	5.0	9961905			
Acid Extractable Zinc (Zn)	ug/g	28	11	93	14	5.0	9961905			
Acid Extractable Mercury (Hg)	ug/g	ND	ND	0.082	ND	0.050	9961905			

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.

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID		ASLF70	ASLF71	ASLF72	ASLF73	ASLF74	ASLF75		
Sampling Date		2025/06/25 13:00	2025/06/25 13:30	2025/06/25 14:00	2025/06/24 14:30	2025/06/24 13:00	2025/06/25 13:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**S8**	**S9**	**S10**	**S11**	**S12**	**S13**	**RDL**	**QC Batch**
Inorganics									
Chromium (VI)	ug/g	ND	ND	ND	ND	ND	ND	0.18	9962182
Metals									
Hot Water Ext. Boron (B)	ug/g	0.18	0.13	0.26	ND	0.12	1.5	0.050	9962324
Acid Extractable Antimony (Sb)	ug/g	0.39	ND	0.41	ND	ND	ND	0.20	9961905
Acid Extractable Arsenic (As)	ug/g	2.8	2.8	2.3	1.2	1.3	1.8	1.0	9961905
Acid Extractable Barium (Ba)	ug/g	51	370	140	88	97	100	0.50	9961905
Acid Extractable Beryllium (Be)	ug/g	0.21	0.28	0.25	ND	ND	0.22	0.20	9961905
Acid Extractable Boron (B)	ug/g	ND	ND	ND	ND	ND	6.2	5.0	9961905
Acid Extractable Cadmium (Cd)	ug/g	0.11	ND	0.43	ND	ND	ND	0.10	9961905
Acid Extractable Chromium (Cr)	ug/g	11	13	27	11	9.7	10	1.0	9961905
Acid Extractable Cobalt (Co)	ug/g	3.2	4.8	3.7	4.5	4.4	4.5	0.10	9961905
Acid Extractable Copper (Cu)	ug/g	20	9.1	34	11	9.1	12	0.50	9961905
Acid Extractable Lead (Pb)	ug/g	42	15	74	4.7	4.4	13	1.0	9961905
Acid Extractable Molybdenum (Mo)	ug/g	0.91	1.2	1.1	ND	ND	ND	0.50	9961905
Acid Extractable Nickel (Ni)	ug/g	7.4	9.5	11	7.7	7.5	8.1	0.50	9961905
Acid Extractable Selenium (Se)	ug/g	ND	ND	ND	ND	ND	ND	0.50	9961905
Acid Extractable Silver (Ag)	ug/g	ND	ND	1.7	ND	ND	ND	0.20	9961905
Acid Extractable Thallium (Tl)	ug/g	0.070	0.098	0.10	0.065	0.065	0.075	0.050	9961905
Acid Extractable Uranium (U)	ug/g	0.40	0.49	0.51	0.43	0.45	0.44	0.050	9961905
Acid Extractable Vanadium (V)	ug/g	24	24	23	22	20	19	5.0	9961905
Acid Extractable Zinc (Zn)	ug/g	44	23	110	16	15	32	5.0	9961905
Acid Extractable Mercury (Hg)	ug/g	0.089	ND	0.20	ND	ND	ND	0.050	9961905

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 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID		ASLF75		
Sampling Date		2025/06/25 13:30		
COC Number		N/A		
	UNITS	**S13 Lab-Dup**	**RDL**	**QC Batch**
Metals				
Acid Extractable Antimony (Sb)	ug/g	ND	0.20	9961905
Acid Extractable Arsenic (As)	ug/g	1.7	1.0	9961905
Acid Extractable Barium (Ba)	ug/g	100	0.50	9961905
Acid Extractable Beryllium (Be)	ug/g	0.21	0.20	9961905
Acid Extractable Boron (B)	ug/g	5.9	5.0	9961905
Acid Extractable Cadmium (Cd)	ug/g	ND	0.10	9961905
Acid Extractable Chromium (Cr)	ug/g	10	1.0	9961905
Acid Extractable Cobalt (Co)	ug/g	4.5	0.10	9961905
Acid Extractable Copper (Cu)	ug/g	12	0.50	9961905
Acid Extractable Lead (Pb)	ug/g	14	1.0	9961905
Acid Extractable Molybdenum (Mo)	ug/g	ND	0.50	9961905
Acid Extractable Nickel (Ni)	ug/g	7.9	0.50	9961905
Acid Extractable Selenium (Se)	ug/g	ND	0.50	9961905
Acid Extractable Silver (Ag)	ug/g	ND	0.20	9961905
Acid Extractable Thallium (Tl)	ug/g	0.082	0.050	9961905
Acid Extractable Uranium (U)	ug/g	0.46	0.050	9961905
Acid Extractable Vanadium (V)	ug/g	19	5.0	9961905
Acid Extractable Zinc (Zn)	ug/g	32	5.0	9961905
Acid Extractable Mercury (Hg)	ug/g	ND	0.050	9961905

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.

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7WS Phone: 613-274-0573 Website: www.bvna.com

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ASLF63	ASLF64			ASLF64			ASLF65		
Sampling Date		2025/06/24 10:00	2025/06/24 10:30			2025/06/24 10:30			2025/06/25 10:00		
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											
Methylnaphthalene, 2-(1-)	ug/g	ND	ND	0.0071	9959980				0.018	0.0071	9959980
Polyaromatic Hydrocarbons											
Acenaphthene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.0070	0.0050	9961299
Acenaphthylene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	ND	0.0050	9961299
Anthracene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.020	0.0050	9961299
Benzo(a)anthracene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.053	0.0050	9961299
Benzo(a)pyrene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.052	0.0050	9961299
Benzo(b/j)fluoranthene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.079	0.0050	9961299
Benzo(g,h,i)perylene	ug/g	0.0064	ND	0.0050	9961299	ND	0.0050	9961299	0.035	0.0050	9961299
Benzo(k)fluoranthene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.025	0.0050	9961299
Chrysene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.052	0.0050	9961299
Dibenzo(a,h)anthracene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.0091	0.0050	9961299
Fluoranthene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.13	0.0050	9961299
Fluorene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.0093	0.0050	9961299
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.036	0.0050	9961299
1-Methylnaphthalene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.0084	0.0050	9961299
2-Methylnaphthalene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.0092	0.0050	9961299
Naphthalene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.011	0.0050	9961299
Phenanthrene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.13	0.0050	9961299
Pyrene	ug/g	ND	ND	0.0050	9961299	ND	0.0050	9961299	0.095	0.0050	9961299
Surrogate Recovery (%)											
D10-Anthracene	%	90	94		9961299	92		9961299	93		9961299
D14-Terphenyl (FS)	%	74	80		9961299	78		9961299	77		9961299
D8-Acenaphthylene	%	83	83		9961299	82		9961299	89		9961299

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.

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ASLF66	ASLF67	ASLF68	ASLF69		ASLF70		ASLF71		
Sampling Date		2025/06/25 10:30	2025/06/25 10:45	2025/06/25 11:30	2025/06/25 10:45		2025/06/25 13:00		2025/06/25 13:30		
COC Number		N/A	N/A	N/A	N/A		N/A		N/A		
	UNITS	**S4**	**S5**	**S6**	**S7**	**RDL**	**S8**	**RDL**	**S9**	**RDL**	**QC Batch**
Calculated Parameters											
Methylnaphthalene, 2-(1-)	ug/g	0.090	ND	ND	ND	0.0071	ND	0.071	ND	0.0071	9959980
Polyaromatic Hydrocarbons											
Acenaphthene	ug/g	0.20	ND	0.0087	ND	0.0050	ND	0.050	ND	0.0050	9961299
Acenaphthylene	ug/g	0.039	ND	0.0072	ND	0.0050	ND	0.050	ND	0.0050	9961299
Anthracene	ug/g	0.56	0.011	0.034	ND	0.0050	ND	0.050	ND	0.0050	9961299
Benzo(a)anthracene	ug/g	1.2	0.023	0.088	0.0052	0.0050	0.060	0.050	0.014	0.0050	9961299
Benzo(a)pyrene	ug/g	1.1	0.018	0.086	0.0050	0.0050	0.073	0.050	0.017	0.0050	9961299
Benzo(b/j)fluoranthene	ug/g	1.5	0.024	0.12	0.0060	0.0050	0.11	0.050	0.025	0.0050	9961299
Benzo(g,h,i)perylene	ug/g	0.60	0.011	0.054	ND	0.0050	0.11	0.050	0.018	0.0050	9961299
Benzo(k)fluoranthene	ug/g	0.50	0.0096	0.041	ND	0.0050	ND	0.050	0.0079	0.0050	9961299
Chrysene	ug/g	0.98	0.020	0.074	ND	0.0050	0.056	0.050	0.013	0.0050	9961299
Dibenzo(a,h)anthracene	ug/g	0.16	ND	0.014	ND	0.0050	ND	0.050	ND	0.0050	9961299
Fluoranthene	ug/g	2.6	0.045	0.19	0.010	0.0050	0.12	0.050	0.032	0.0050	9961299
Fluorene	ug/g	0.24	ND	0.011	ND	0.0050	ND	0.050	ND	0.0050	9961299
Indeno(1,2,3-cd)pyrene	ug/g	0.66	0.011	0.055	ND	0.0050	0.066	0.050	0.014	0.0050	9961299
1-Methylnaphthalene	ug/g	0.044	ND	ND	ND	0.0050	ND	0.050	ND	0.0050	9961299
2-Methylnaphthalene	ug/g	0.046	ND	ND	ND	0.0050	ND	0.050	ND	0.0050	9961299
Naphthalene	ug/g	0.080	ND	ND	ND	0.0050	ND	0.050	ND	0.0050	9961299
Phenanthrene	ug/g	2.0	0.033	0.11	0.0055	0.0050	0.058	0.050	0.015	0.0050	9961299
Pyrene	ug/g	2.0	0.034	0.15	0.0082	0.0050	0.13	0.050	0.026	0.0050	9961299
Surrogate Recovery (%)											
D10-Anthracene	%	86	89	87	92		100		92		9961299
D14-Terphenyl (FS)	%	73	71	75	79		97		79		9961299
D8-Acenaphthylene	%	85	83	82	76		104		87		9961299

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

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		ASLF72		ASLF73	ASLF74	ASLF75		
Sampling Date		2025/06/25 14:00		2025/06/24 14:30	2025/06/24 13:00	2025/06/25 13:30		
COC Number		N/A		N/A	N/A	N/A		
	UNITS	**S10**	**RDL**	**S11**	**S12**	**S13**	**RDL**	**QC Batch**
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	ND	0.071	ND	ND	ND	0.0071	9959980
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Acenaphthylene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Anthracene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Benzo(a)anthracene	ug/g	0.058	0.050	ND	ND	0.0092	0.0050	9961299
Benzo(a)pyrene	ug/g	0.074	0.050	ND	ND	0.019	0.0050	9961299
Benzo(b/j)fluoranthene	ug/g	0.11	0.050	ND	ND	0.033	0.0050	9961299
Benzo(g,h,i)perylene	ug/g	0.077	0.050	ND	ND	0.017	0.0050	9961299
Benzo(k)fluoranthene	ug/g	ND	0.050	ND	ND	0.010	0.0050	9961299
Chrysene	ug/g	0.054	0.050	ND	ND	0.012	0.0050	9961299
Dibenzo(a,h)anthracene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Fluoranthene	ug/g	0.13	0.050	ND	ND	0.016	0.0050	9961299
Fluorene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Indeno(1,2,3-cd)pyrene	ug/g	0.060	0.050	ND	ND	0.016	0.0050	9961299
1-Methylnaphthalene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
2-Methylnaphthalene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Naphthalene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Phenanthrene	ug/g	ND	0.050	ND	ND	ND	0.0050	9961299
Pyrene	ug/g	0.11	0.050	ND	ND	0.012	0.0050	9961299
Surrogate Recovery (%)								
D10-Anthracene	%	108		89	94	92		9961299
D14-Terphenyl (FS)	%	101		72	79	76		9961299
D8-Acenaphthylene	%	104		82	81	88		9961299

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

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

Bureau Veritas ID		ASLF63			ASLF63			ASLF64	ASLF65		
Sampling Date		2025/06/24 10:00			2025/06/24 10:00			2025/06/24 10:30	2025/06/25 10:00		
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	9960382	ND	0.020	9960382	ND	ND	0.020	9960382
Toluene	ug/g	ND	0.020	9960382	ND	0.020	9960382	ND	ND	0.020	9960382
Ethylbenzene	ug/g	ND	0.020	9960382	ND	0.020	9960382	ND	ND	0.020	9960382
o-Xylene	ug/g	ND	0.020	9960382	ND	0.020	9960382	ND	ND	0.020	9960382
p+m-Xylene	ug/g	ND	0.040	9960382	ND	0.040	9960382	ND	ND	0.040	9960382
Total Xylenes	ug/g	ND	0.040	9960382	ND	0.040	9960382	ND	ND	0.040	9960382
F1 (C6-C10)	ug/g	ND	10	9960382	ND	10	9960382	ND	ND	10	9960382
F1 (C6-C10) - BTEX	ug/g	ND	10	9960382	ND	10	9960382	ND	ND	10	9960382
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	ND	7.0	9960611				ND	ND	7.0	9960611
F3 (C16-C34 Hydrocarbons)	ug/g	ND	50	9960611				ND	87	50	9960611
F4 (C34-C50 Hydrocarbons)	ug/g	ND	50	9960611				ND	130	50	9960611
Reached Baseline at C50	ug/g	Yes		9960611				Yes	Yes		9960611
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	102		9960382	104		9960382	105	105		9960382
4-Bromofluorobenzene	%	95		9960382	94		9960382	94	96		9960382
D10-o-Xylene	%	101		9960382	100		9960382	101	102		9960382
D4-1,2-Dichloroethane	%	100		9960382	99		9960382	97	96		9960382
o-Terphenyl	%	90		9960611				90	90		9960611

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.

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

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

Bureau Veritas ID		ASLF66	ASLF67	ASLF68	ASLF69			ASLF69		
Sampling Date		2025/06/25 10:30	2025/06/25 10:45	2025/06/25 11:30	2025/06/25 10:45			2025/06/25 10:45		
COC Number		N/A	N/A	N/A	N/A			N/A		
	UNITS	**S4**	**S5**	**S6**	**S7**	**RDL**	**QC Batch**	**S7 Lab-Dup**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons										
Benzene	ug/g	ND	ND	ND	ND	0.020	9960382			
Toluene	ug/g	ND	ND	ND	ND	0.020	9960382			
Ethylbenzene	ug/g	ND	ND	ND	ND	0.020	9960382			
o-Xylene	ug/g	ND	ND	ND	ND	0.020	9960382			
p+m-Xylene	ug/g	ND	ND	ND	ND	0.040	9960382			
Total Xylenes	ug/g	ND	ND	ND	ND	0.040	9960382			
F1 (C6-C10)	ug/g	ND	ND	ND	ND	10	9960382			
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	ND	10	9960382			
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	7.0	ND	ND	ND	7.0	9960611	ND	7.0	9960611
F3 (C16-C34 Hydrocarbons)	ug/g	120	ND	69	ND	50	9960611	ND	50	9960611
F4 (C34-C50 Hydrocarbons)	ug/g	160	ND	56	ND	50	9960611	ND	50	9960611
Reached Baseline at C50	ug/g	No	Yes	Yes	Yes		9960611	Yes		9960611
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	103	102	102	101		9960382			
4-Bromofluorobenzene	%	94	95	95	96		9960382			
D10-o-Xylene	%	108	110	100	109		9960382			
D4-1,2-Dichloroethane	%	98	101	101	101		9960382			
o-Terphenyl	%	90	88	87	90		9960611	97		9960611

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.

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

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

Bureau Veritas ID		ASLF70	ASLF71	ASLF72	ASLF73	ASLF74	ASLF75		
Sampling Date		2025/06/25 13:00	2025/06/25 13:30	2025/06/25 14:00	2025/06/24 14:30	2025/06/24 13:00	2025/06/25 13:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**S8**	**S9**	**S10**	**S11**	**S12**	**S13**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
Benzene	ug/g	ND	ND	ND	ND	ND	ND	0.020	9960382
Toluene	ug/g	ND	ND	0.024	ND	ND	ND	0.020	9960382
Ethylbenzene	ug/g	ND	ND	ND	ND	ND	ND	0.020	9960382
o-Xylene	ug/g	ND	ND	ND	ND	ND	ND	0.020	9960382
p+m-Xylene	ug/g	ND	ND	ND	ND	ND	ND	0.040	9960382
Total Xylenes	ug/g	ND	ND	ND	ND	ND	ND	0.040	9960382
F1 (C6-C10)	ug/g	ND	ND	ND	ND	ND	ND	10	9960382
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	ND	ND	ND	10	9960382
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	8.9	ND	ND	ND	ND	ND	7.0	9960611
F3 (C16-C34 Hydrocarbons)	ug/g	140	ND	170	ND	ND	ND	50	9960611
F4 (C34-C50 Hydrocarbons)	ug/g	1000	110	360	ND	ND	ND	50	9960611
Reached Baseline at C50	ug/g	No	No	No	Yes	Yes	Yes		9960611
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	105	102	104	102	104	103		9960382
4-Bromofluorobenzene	%	94	96	94	96	96	96		9960382
D10-o-Xylene	%	106	96	100	102	101	107		9960382
D4-1,2-Dichloroethane	%	101	101	103	102	102	101		9960382
o-Terphenyl	%	89	87	85	88	87	91		9960611

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 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		ASLF63	ASLF64	ASLF65	ASLF66	ASLF67	ASLF68	ASLF69		
Sampling Date		2025/06/24 10:00	2025/06/24 10:30	2025/06/25 10:00	2025/06/25 10:30	2025/06/25 10:45	2025/06/25 11:30	2025/06/25 10:45		
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	%	12	10	9.2	19	8.5	29	13	1.0	9960116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		ASLF70	ASLF71	ASLF72	ASLF73	ASLF74	ASLF75		
Sampling Date		2025/06/25 13:00	2025/06/25 13:30	2025/06/25 14:00	2025/06/24 14:30	2025/06/24 13:00	2025/06/25 13:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**S8**	**S9**	**S10**	**S11**	**S12**	**S13**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	9.3	8.4	12	11	10	16	1.0	9960116

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		ASLF66	ASLF70	ASLF71	ASLF72		
Sampling Date		2025/06/25 10:30	2025/06/25 13:00	2025/06/25 13:30	2025/06/25 14:00		
COC Number		N/A	N/A	N/A	N/A		
	UNITS	**S4**	**S8**	**S9**	**S10**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	820	5700	510	2400	100	9962192

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

TEST SUMMARY

Bureau Veritas ID: ASLF63
Sample ID: S1
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF63 Dup
Sample ID: S1
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea

Bureau Veritas ID: ASLF64
Sample ID: S2
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/02	Mitesh Raj

Bureau Veritas ID: ASLF64 Dup
Sample ID: S2
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/02	Mitesh Raj

Bureau Veritas ID: ASLF65
Sample ID: S3
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur

TEST SUMMARY

Bureau Veritas ID: ASLF65
Sample ID: S3
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF66
Sample ID: S4
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9962192	2025/07/03	2025/07/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF67
Sample ID: S5
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF68
Sample ID: S6
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

TEST SUMMARY

Bureau Veritas ID: ASLF68
Sample ID: S6
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF69
Sample ID: S7
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/06/30	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF69 Dup
Sample ID: S7
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb

Bureau Veritas ID: ASLF70
Sample ID: S8
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9962192	2025/07/03	2025/07/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

TEST SUMMARY

Bureau Veritas ID: ASLF71
Sample ID: S9
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9962192	2025/07/03	2025/07/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF72
Sample ID: S10
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
F4G (CCME Hydrocarbons Gravimetric)	BAL	9962192	2025/07/03	2025/07/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF73
Sample ID: S11
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF74
Sample ID: S12
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

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

TEST SUMMARY

Bureau Veritas ID: ASLF74
Sample ID: S12
Matrix: Soil

Collected: 2025/06/24
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF75
Sample ID: S13
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959980	N/A	2025/07/03	Automated Statchk
Hot Water Extractable Boron	ICP	9962324	2025/07/03	2025/07/03	Suban Kanapathippllai
Hexavalent Chromium in Soil by IC	IC/SPEC	9962182	2025/07/03	2025/07/03	Harpuneet Kaur
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9960382	N/A	2025/07/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9960611	2025/06/30	2025/07/01	Mohammed Abdul Nafay Shoeb
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu
Moisture	BAL	9960116	N/A	2025/06/28	Diksha Desawer
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9961299	2025/07/02	2025/07/03	Mitesh Raj

Bureau Veritas ID: ASLF75 Dup
Sample ID: S13
Matrix: Soil

Collected: 2025/06/25
Shipped:
Received: 2025/06/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	9961905	2025/07/02	2025/07/02	Daniel Teclu

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

GENERAL COMMENTS

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

Package 1	2.0°C

F1 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 ASLF70 [S8] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ASLF72 [S10] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9960116	DDR	RPD	Moisture	2025/06/28	1.2		%	20
9960382	AGA	Matrix Spike [ASLF63-04]	1,4-Difluorobenzene	2025/06/30		99	%	60 - 140
			4-Bromofluorobenzene	2025/06/30		100	%	60 - 140
			D10-o-Xylene	2025/06/30		101	%	60 - 140
			D4-1,2-Dichloroethane	2025/06/30		95	%	60 - 140
			Benzene	2025/06/30		79	%	50 - 140
			Toluene	2025/06/30		80	%	50 - 140
			Ethylbenzene	2025/06/30		92	%	50 - 140
			o-Xylene	2025/06/30		92	%	50 - 140
			p+m-Xylene	2025/06/30		89	%	50 - 140
			F1 (C6-C10)	2025/06/30		93	%	60 - 140
9960382	AGA	Spiked Blank	1,4-Difluorobenzene	2025/06/30		94	%	60 - 140
			4-Bromofluorobenzene	2025/06/30		98	%	60 - 140
			D10-o-Xylene	2025/06/30		100	%	60 - 140
			D4-1,2-Dichloroethane	2025/06/30		99	%	60 - 140
			Benzene	2025/06/30		87	%	50 - 140
			Toluene	2025/06/30		85	%	50 - 140
			Ethylbenzene	2025/06/30		95	%	50 - 140
			o-Xylene	2025/06/30		97	%	50 - 140
			p+m-Xylene	2025/06/30		91	%	50 - 140
			F1 (C6-C10)	2025/06/30		96	%	80 - 120
9960382	AGA	Method Blank	1,4-Difluorobenzene	2025/06/30		104	%	60 - 140
			4-Bromofluorobenzene	2025/06/30		94	%	60 - 140
			D10-o-Xylene	2025/06/30		99	%	60 - 140
			D4-1,2-Dichloroethane	2025/06/30		99	%	60 - 140
			Benzene	2025/06/30	ND, RDL=0.020		ug/g	
			Toluene	2025/06/30	ND, RDL=0.020		ug/g	
			Ethylbenzene	2025/06/30	ND, RDL=0.020		ug/g	
			o-Xylene	2025/06/30	ND, RDL=0.020		ug/g	
			p+m-Xylene	2025/06/30	ND, RDL=0.040		ug/g	
			Total Xylenes	2025/06/30	ND, RDL=0.040		ug/g	
			F1 (C6-C10)	2025/06/30	ND, RDL=10		ug/g	
			F1 (C6-C10) - BTEX	2025/06/30	ND, RDL=10		ug/g	
9960382	AGA	RPD [ASLF63-04]	Benzene	2025/06/30	NC		%	50
			Toluene	2025/06/30	NC		%	50
			Ethylbenzene	2025/06/30	NC		%	50
			o-Xylene	2025/06/30	NC		%	50
			p+m-Xylene	2025/06/30	NC		%	50
			Total Xylenes	2025/06/30	NC		%	50
			F1 (C6-C10)	2025/06/30	NC		%	30
			F1 (C6-C10) - BTEX	2025/06/30	NC		%	30
9960611	MSZ	Matrix Spike [ASLF69-03]	o-Terphenyl	2025/07/01		86	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/01		92	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/07/01		92	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/07/01		86	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9960611	MSZ	Spiked Blank	o-Terphenyl	2025/07/01		84	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/07/01		87	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2025/07/01		87	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2025/07/01		80	%	80 - 120
9960611	MSZ	Method Blank	o-Terphenyl	2025/06/30		87	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/30	ND, RDL=7.0		ug/g	
			F3 (C16-C34 Hydrocarbons)	2025/06/30	ND, RDL=50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2025/06/30	ND, RDL=50		ug/g	
9960611	MSZ	RPD [ASLF69-03]	F2 (C10-C16 Hydrocarbons)	2025/07/01	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/07/01	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/07/01	NC		%	30
9961299	RAJ	Matrix Spike [ASLF64-03]	D10-Anthracene	2025/07/02		91	%	50 - 130
			D14-Terphenyl (FS)	2025/07/02		85	%	50 - 130
			D8-Acenaphthylene	2025/07/02		84	%	50 - 130
			Acenaphthene	2025/07/02		88	%	50 - 130
			Acenaphthylene	2025/07/02		83	%	50 - 130
			Anthracene	2025/07/02		103	%	50 - 130
			Benzo(a)anthracene	2025/07/02		98	%	50 - 130
			Benzo(a)pyrene	2025/07/02		95	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/02		97	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/02		98	%	50 - 130
			Benzo(k)fluoranthene	2025/07/02		95	%	50 - 130
			Chrysene	2025/07/02		92	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/02		98	%	50 - 130
			Fluoranthene	2025/07/02		97	%	50 - 130
			Fluorene	2025/07/02		90	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/02		100	%	50 - 130
			1-Methylnaphthalene	2025/07/02		75	%	50 - 130
			2-Methylnaphthalene	2025/07/02		79	%	50 - 130
			Naphthalene	2025/07/02		70	%	50 - 130
			Phenanthrene	2025/07/02		92	%	50 - 130
			Pyrene	2025/07/02		98	%	50 - 130
9961299	RAJ	Spiked Blank	D10-Anthracene	2025/07/02		96	%	50 - 130
			D14-Terphenyl (FS)	2025/07/02		86	%	50 - 130
			D8-Acenaphthylene	2025/07/02		93	%	50 - 130
			Acenaphthene	2025/07/02		94	%	50 - 130
			Acenaphthylene	2025/07/02		92	%	50 - 130
			Anthracene	2025/07/02		104	%	50 - 130
			Benzo(a)anthracene	2025/07/02		102	%	50 - 130
			Benzo(a)pyrene	2025/07/02		96	%	50 - 130
			Benzo(b/j)fluoranthene	2025/07/02		99	%	50 - 130
			Benzo(g,h,i)perylene	2025/07/02		100	%	50 - 130
			Benzo(k)fluoranthene	2025/07/02		98	%	50 - 130
			Chrysene	2025/07/02		95	%	50 - 130
			Dibenzo(a,h)anthracene	2025/07/02		100	%	50 - 130
			Fluoranthene	2025/07/02		97	%	50 - 130
			Fluorene	2025/07/02		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/07/02		104	%	50 - 130
			1-Methylnaphthalene	2025/07/02		90	%	50 - 130
			2-Methylnaphthalene	2025/07/02		96	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Naphthalene	2025/07/02		94	%	50 - 130
			Phenanthrene	2025/07/02		93	%	50 - 130
			Pyrene	2025/07/02		99	%	50 - 130
9961299	RAJ	Method Blank	D10-Anthracene	2025/07/02		96	%	50 - 130
			D14-Terphenyl (FS)	2025/07/02		81	%	50 - 130
			D8-Acenaphthylene	2025/07/02		92	%	50 - 130
			Acenaphthene	2025/07/02	ND, RDL=0.0050		ug/g	
			Acenaphthylene	2025/07/02	ND, RDL=0.0050		ug/g	
			Anthracene	2025/07/02	ND, RDL=0.0050		ug/g	
			Benzo(a)anthracene	2025/07/02	ND, RDL=0.0050		ug/g	
			Benzo(a)pyrene	2025/07/02	ND, RDL=0.0050		ug/g	
			Benzo(b/j)fluoranthene	2025/07/02	ND, RDL=0.0050		ug/g	
			Benzo(g,h,i)perylene	2025/07/02	ND, RDL=0.0050		ug/g	
			Benzo(k)fluoranthene	2025/07/02	ND, RDL=0.0050		ug/g	
			Chrysene	2025/07/02	ND, RDL=0.0050		ug/g	
			Dibenzo(a,h)anthracene	2025/07/02	ND, RDL=0.0050		ug/g	
			Fluoranthene	2025/07/02	ND, RDL=0.0050		ug/g	
			Fluorene	2025/07/02	ND, RDL=0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2025/07/02	ND, RDL=0.0050		ug/g	
			1-Methylnaphthalene	2025/07/02	ND, RDL=0.0050		ug/g	
			2-Methylnaphthalene	2025/07/02	ND, RDL=0.0050		ug/g	
			Naphthalene	2025/07/02	ND, RDL=0.0050		ug/g	
			Phenanthrene	2025/07/02	ND, RDL=0.0050		ug/g	
			Pyrene	2025/07/02	ND, RDL=0.0050		ug/g	
9961299	RAJ	RPD [ASLF64-03]	Acenaphthene	2025/07/02	NC		%	40
			Acenaphthylene	2025/07/02	NC		%	40
			Anthracene	2025/07/02	NC		%	40
			Benzo(a)anthracene	2025/07/02	NC		%	40
			Benzo(a)pyrene	2025/07/02	NC		%	40
			Benzo(b/j)fluoranthene	2025/07/02	NC		%	40
			Benzo(g,h,i)perylene	2025/07/02	NC		%	40
			Benzo(k)fluoranthene	2025/07/02	NC		%	40
			Chrysene	2025/07/02	NC		%	40
			Dibenzo(a,h)anthracene	2025/07/02	NC		%	40
			Fluoranthene	2025/07/02	NC		%	40
			Fluorene	2025/07/02	NC		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Indeno(1,2,3-cd)pyrene	2025/07/02	NC		%	40
			1-Methylnaphthalene	2025/07/02	NC		%	40
			2-Methylnaphthalene	2025/07/02	NC		%	40
			Naphthalene	2025/07/02	NC		%	40
			Phenanthrene	2025/07/02	NC		%	40
			Pyrene	2025/07/02	NC		%	40
9961905	DT1	Matrix Spike [ASLF75-01]	Acid Extractable Antimony (Sb)	2025/07/02		115	%	75 - 125
			Acid Extractable Arsenic (As)	2025/07/02		104	%	75 - 125
			Acid Extractable Barium (Ba)	2025/07/02		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2025/07/02		101	%	75 - 125
			Acid Extractable Boron (B)	2025/07/02		99	%	75 - 125
			Acid Extractable Cadmium (Cd)	2025/07/02		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2025/07/02		101	%	75 - 125
			Acid Extractable Cobalt (Co)	2025/07/02		101	%	75 - 125
			Acid Extractable Copper (Cu)	2025/07/02		99	%	75 - 125
			Acid Extractable Lead (Pb)	2025/07/02		105	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2025/07/02		96	%	75 - 125
			Acid Extractable Nickel (Ni)	2025/07/02		101	%	75 - 125
			Acid Extractable Selenium (Se)	2025/07/02		107	%	75 - 125
			Acid Extractable Silver (Ag)	2025/07/02		101	%	75 - 125
			Acid Extractable Thallium (Tl)	2025/07/02		108	%	75 - 125
			Acid Extractable Uranium (U)	2025/07/02		111	%	75 - 125
			Acid Extractable Vanadium (V)	2025/07/02		103	%	75 - 125
			Acid Extractable Zinc (Zn)	2025/07/02		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2025/07/02		101	%	75 - 125
9961905	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2025/07/02		113	%	80 - 120
			Acid Extractable Arsenic (As)	2025/07/02		101	%	80 - 120
			Acid Extractable Barium (Ba)	2025/07/02		101	%	80 - 120
			Acid Extractable Beryllium (Be)	2025/07/02		96	%	80 - 120
			Acid Extractable Boron (B)	2025/07/02		89	%	80 - 120
			Acid Extractable Cadmium (Cd)	2025/07/02		97	%	80 - 120
			Acid Extractable Chromium (Cr)	2025/07/02		98	%	80 - 120
			Acid Extractable Cobalt (Co)	2025/07/02		98	%	80 - 120
			Acid Extractable Copper (Cu)	2025/07/02		97	%	80 - 120
			Acid Extractable Lead (Pb)	2025/07/02		103	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2025/07/02		91	%	80 - 120
			Acid Extractable Nickel (Ni)	2025/07/02		102	%	80 - 120
			Acid Extractable Selenium (Se)	2025/07/02		103	%	80 - 120
			Acid Extractable Silver (Ag)	2025/07/02		96	%	80 - 120
			Acid Extractable Thallium (Tl)	2025/07/02		105	%	80 - 120
			Acid Extractable Uranium (U)	2025/07/02		106	%	80 - 120
			Acid Extractable Vanadium (V)	2025/07/02		99	%	80 - 120
			Acid Extractable Zinc (Zn)	2025/07/02		101	%	80 - 120
			Acid Extractable Mercury (Hg)	2025/07/02		97	%	80 - 120
9961905	DT1	Method Blank	Acid Extractable Antimony (Sb)	2025/07/02	ND, RDL=0.20		ug/g	
			Acid Extractable Arsenic (As)	2025/07/02	ND, RDL=1.0		ug/g	
			Acid Extractable Barium (Ba)	2025/07/02	ND, RDL=0.50		ug/g	
			Acid Extractable Beryllium (Be)	2025/07/02	ND, RDL=0.20		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Boron (B)	2025/07/02	ND, RDL=5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2025/07/02	ND, RDL=0.10		ug/g	
			Acid Extractable Chromium (Cr)	2025/07/02	ND, RDL=1.0		ug/g	
			Acid Extractable Cobalt (Co)	2025/07/02	ND, RDL=0.10		ug/g	
			Acid Extractable Copper (Cu)	2025/07/02	ND, RDL=0.50		ug/g	
			Acid Extractable Lead (Pb)	2025/07/02	ND, RDL=1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2025/07/02	ND, RDL=0.50		ug/g	
			Acid Extractable Nickel (Ni)	2025/07/02	ND, RDL=0.50		ug/g	
			Acid Extractable Selenium (Se)	2025/07/02	ND, RDL=0.50		ug/g	
			Acid Extractable Silver (Ag)	2025/07/02	ND, RDL=0.20		ug/g	
			Acid Extractable Thallium (Tl)	2025/07/02	ND, RDL=0.050		ug/g	
			Acid Extractable Uranium (U)	2025/07/02	ND, RDL=0.050		ug/g	
			Acid Extractable Vanadium (V)	2025/07/02	ND, RDL=5.0		ug/g	
			Acid Extractable Zinc (Zn)	2025/07/02	ND, RDL=5.0		ug/g	
			Acid Extractable Mercury (Hg)	2025/07/02	ND, RDL=0.050		ug/g	
9961905	DT1	RPD [ASLF75-01]	Acid Extractable Antimony (Sb)	2025/07/02	NC		%	30
			Acid Extractable Arsenic (As)	2025/07/02	5.0		%	30
			Acid Extractable Barium (Ba)	2025/07/02	3.7		%	30
			Acid Extractable Beryllium (Be)	2025/07/02	4.5		%	30
			Acid Extractable Boron (B)	2025/07/02	4.3		%	30
			Acid Extractable Cadmium (Cd)	2025/07/02	NC		%	30
			Acid Extractable Chromium (Cr)	2025/07/02	1.1		%	30
			Acid Extractable Cobalt (Co)	2025/07/02	1.5		%	30
			Acid Extractable Copper (Cu)	2025/07/02	0.24		%	30
			Acid Extractable Lead (Pb)	2025/07/02	2.9		%	30
			Acid Extractable Molybdenum (Mo)	2025/07/02	NC		%	30
			Acid Extractable Nickel (Ni)	2025/07/02	3.2		%	30
			Acid Extractable Selenium (Se)	2025/07/02	NC		%	30
			Acid Extractable Silver (Ag)	2025/07/02	NC		%	30
			Acid Extractable Thallium (Tl)	2025/07/02	8.8		%	30
			Acid Extractable Uranium (U)	2025/07/02	3.3		%	30
			Acid Extractable Vanadium (V)	2025/07/02	0.38		%	30
			Acid Extractable Zinc (Zn)	2025/07/02	0.36		%	30
			Acid Extractable Mercury (Hg)	2025/07/02	NC		%	30
9962182	HK1	Matrix Spike [ASLF64-01]	Chromium (VI)	2025/07/03		85	%	70 - 130
9962182	HK1	Spiked Blank	Chromium (VI)	2025/07/03		89	%	80 - 120
9962182	HK1	Method Blank	Chromium (VI)	2025/07/03	ND, RDL=0.18		ug/g	
9962182	HK1	RPD [ASLF64-01]	Chromium (VI)	2025/07/03	NC		%	35

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9962192	RDU	Matrix Spike	F4G-sg (Grav. Heavy Hydrocarbons)	2025/07/03		82	%	65 - 135
9962192	RDU	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2025/07/03		101	%	65 - 135
9962192	RDU	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2025/07/03	ND, RDL=100		ug/g	
9962192	RDU	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2025/07/03	7.7		%	50
9962324	SUK	Matrix Spike [ASLF69-01]	Hot Water Ext. Boron (B)	2025/07/03		100	%	75 - 125
9962324	SUK	Spiked Blank	Hot Water Ext. Boron (B)	2025/07/03		104	%	75 - 125
9962324	SUK	Method Blank	Hot Water Ext. Boron (B)	2025/07/03	ND, RDL=0.050		ug/g	
9962324	SUK	RPD [ASLF69-01]	Hot Water Ext. Boron (B)	2025/07/03	9.0		%	40

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).

Bureau Veritas Job #: C577434
Report Date: 2025/07/03

St Lawrence Testing & Inspection Co Ltd
Client Project #: COMPOST SITE
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

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.

RLC-HydroG

ATTACHMENT I

Laboratory Certificate of Analysis – Surface Water

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

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

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.

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 #: 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

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RLC-HydroG

ATTACHMENT J

Laboratory Certificate of Analysis – Groundwater

Your Project #: 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: 2025/07/03
Report #: R8569237
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C577436
Received: 2025/06/27, 11:30

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	6	N/A	2025/07/02	CAM SOP-00301	EPA 8270D m
Chromium (VI) in Water (1)	6	N/A	2025/06/30	CAM SOP-00436	EPA 7199 m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	4	N/A	2025/07/02	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	2	N/A	2025/07/03	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	6	2025/06/29	2025/06/30	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	6	2025/06/30	2025/06/30	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	6	N/A	2025/06/30	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	6	2025/06/29	2025/06/30	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.

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) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) 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

Your Project #: 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: 2025/07/03
Report #: R8569237
Version: 1 - Final

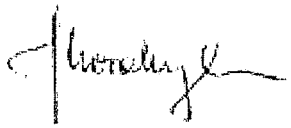
CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C577436

Received: 2025/06/27, 11:30

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
03 Jul 2025 17:26:58

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 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Bureau Veritas Job #: C577436
Report Date: 2025/07/03

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

O.REG 153 METALS PACKAGE (WATER)

Bureau Veritas ID		ASLF87			ASLF87			ASLF88	ASLF89		
Sampling Date		2025/06/26 10:30			2025/06/26 10:30			2025/06/26 11:00	2025/06/26 10:15		
COC Number		N/A			N/A			N/A	N/A		
	UNITS	**MW 1**	**RDL**	**QC Batch**	**MW 1 Lab-Dup**	**RDL**	**QC Batch**	**MW 2**	**MW 3**	**RDL**	**QC Batch**
Metals											
Chromium (VI)	ug/L	ND	0.50	9960659	ND	0.50	9960659	ND	ND	0.50	9960659
Mercury (Hg)	ug/L	ND	0.10	9960669				ND	ND	0.10	9960669
Dissolved Antimony (Sb)	ug/L	ND	0.50	9960077				ND	ND	0.50	9960077
Dissolved Arsenic (As)	ug/L	ND	1.0	9960077				1.9	ND	1.0	9960077
Dissolved Barium (Ba)	ug/L	150	2.0	9960077				350	190	2.0	9960077
Dissolved Beryllium (Be)	ug/L	ND	0.40	9960077				ND	ND	0.40	9960077
Dissolved Boron (B)	ug/L	21	10	9960077				56	51	10	9960077
Dissolved Cadmium (Cd)	ug/L	ND	0.090	9960077				ND	ND	0.090	9960077
Dissolved Chromium (Cr)	ug/L	ND	5.0	9960077				ND	ND	5.0	9960077
Dissolved Cobalt (Co)	ug/L	2.4	0.50	9960077				2.2	ND	0.50	9960077
Dissolved Copper (Cu)	ug/L	ND	0.90	9960077				3.4	0.97	0.90	9960077
Dissolved Lead (Pb)	ug/L	ND	0.50	9960077				ND	ND	0.50	9960077
Dissolved Molybdenum (Mo)	ug/L	2.6	0.50	9960077				13	4.9	0.50	9960077
Dissolved Nickel (Ni)	ug/L	2.4	1.0	9960077				3.2	2.1	1.0	9960077
Dissolved Selenium (Se)	ug/L	ND	2.0	9960077				ND	ND	2.0	9960077
Dissolved Silver (Ag)	ug/L	ND	0.090	9960077				ND	ND	0.090	9960077
Dissolved Sodium (Na)	ug/L	17000	100	9960077				300000	38000	100	9960077
Dissolved Thallium (Tl)	ug/L	ND	0.050	9960077				ND	ND	0.050	9960077
Dissolved Uranium (U)	ug/L	0.70	0.10	9960077				2.6	1.3	0.10	9960077
Dissolved Vanadium (V)	ug/L	ND	0.50	9960077				4.2	ND	0.50	9960077
Dissolved Zinc (Zn)	ug/L	ND	5.0	9960077				ND	ND	5.0	9960077

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.

Bureau Veritas Job #: C577436
Report Date: 2025/07/03

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

O.REG 153 METALS PACKAGE (WATER)

Bureau Veritas ID		ASLF90	ASLF91	ASLF92		
Sampling Date		2025/06/26 10:00	2025/06/26 09:40	2025/06/26 10:45		
COC Number		N/A	N/A	N/A		
	UNITS	**MW 4**	**MW 6**	**MW 7**	**RDL**	**QC Batch**
Metals						
Chromium (VI)	ug/L	ND	1.9	ND	0.50	9960659
Mercury (Hg)	ug/L	ND	ND	ND	0.10	9960669
Dissolved Antimony (Sb)	ug/L	ND	ND	ND	0.50	9960077
Dissolved Arsenic (As)	ug/L	ND	ND	ND	1.0	9960077
Dissolved Barium (Ba)	ug/L	120	120	340	2.0	9960077
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	0.40	9960077
Dissolved Boron (B)	ug/L	59	25	40	10	9960077
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	0.090	9960077
Dissolved Chromium (Cr)	ug/L	ND	ND	ND	5.0	9960077
Dissolved Cobalt (Co)	ug/L	0.86	ND	ND	0.50	9960077
Dissolved Copper (Cu)	ug/L	5.0	7.2	3.3	0.90	9960077
Dissolved Lead (Pb)	ug/L	ND	ND	ND	0.50	9960077
Dissolved Molybdenum (Mo)	ug/L	4.3	3.0	2.0	0.50	9960077
Dissolved Nickel (Ni)	ug/L	2.4	1.2	ND	1.0	9960077
Dissolved Selenium (Se)	ug/L	ND	ND	ND	2.0	9960077
Dissolved Silver (Ag)	ug/L	ND	ND	ND	0.090	9960077
Dissolved Sodium (Na)	ug/L	170000	210000	7800	100	9960077
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	0.050	9960077
Dissolved Uranium (U)	ug/L	10	1.0	2.8	0.10	9960077
Dissolved Vanadium (V)	ug/L	ND	1.3	0.59	0.50	9960077
Dissolved Zinc (Zn)	ug/L	ND	7.2	6.1	5.0	9960077

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

O.REG 153 PAHS (WATER)

Bureau Veritas ID		ASLF87	ASLF88	ASLF89	ASLF90	ASLF91	ASLF92		
Sampling Date		2025/06/26 10:30	2025/06/26 11:00	2025/06/26 10:15	2025/06/26 10:00	2025/06/26 09:40	2025/06/26 10:45		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**MW 1**	**MW 2**	**MW 3**	**MW 4**	**MW 6**	**MW 7**	**RDL**	**QC Batch**
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	ND	ND	ND	ND	ND	ND	0.071	9959971
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	ND	ND	0.098	ND	ND	ND	0.050	9960196
Acenaphthylene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Anthracene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	ND	0.0090	9960196
Benzo(b/j)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Chrysene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Fluoranthene	ug/L	0.052	ND	0.098	ND	ND	ND	0.050	9960196
Fluorene	ug/L	ND	ND	0.078	ND	ND	ND	0.050	9960196
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
1-Methylnaphthalene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
2-Methylnaphthalene	ug/L	ND	ND	ND	ND	ND	ND	0.050	9960196
Naphthalene	ug/L	ND	ND	0.12	ND	ND	ND	0.050	9960196
Phenanthrene	ug/L	0.18	ND	0.33	0.031	0.083	0.064	0.030	9960196
Pyrene	ug/L	0.073	ND	0.080	ND	ND	ND	0.050	9960196
Surrogate Recovery (%)									
D10-Anthracene	%	101	98	94	99	99	86		9960196
D14-Terphenyl (FS)	%	96	92	88	93	95	79		9960196
D8-Acenaphthylene	%	95	89	88	89	91	78		9960196

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 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Bureau Veritas Job #: C577436
Report Date: 2025/07/03

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

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

Bureau Veritas ID		ASLF87	ASLF88	ASLF89	ASLF90	ASLF91	ASLF92		
Sampling Date		2025/06/26 10:30	2025/06/26 11:00	2025/06/26 10:15	2025/06/26 10:00	2025/06/26 09:40	2025/06/26 10:45		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	**MW 1**	**MW 2**	**MW 3**	**MW 4**	**MW 6**	**MW 7**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
Benzene	ug/L	ND	0.40	0.28	ND	ND	ND	0.20	9961684
Toluene	ug/L	ND	0.33	0.46	ND	26	ND	0.20	9961684
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	0.20	9961684
o-Xylene	ug/L	ND	ND	ND	ND	ND	ND	0.20	9961684
p+m-Xylene	ug/L	ND	ND	ND	ND	ND	ND	0.40	9961684
Total Xylenes	ug/L	ND	ND	ND	ND	ND	ND	0.40	9961684
F1 (C6-C10)	ug/L	ND	ND	ND	ND	34	ND	25	9961684
F1 (C6-C10) - BTEX	ug/L	ND	ND	ND	ND	ND	ND	25	9961684
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	ND	ND	ND	ND	90	9960197
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	ND	ND	ND	ND	200	9960197
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	ND	ND	ND	ND	200	9960197
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes	Yes		9960197
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	99	99	100	99	97	99		9961684
4-Bromofluorobenzene	%	96	90	95	87	92	92		9961684
D10-o-Xylene	%	97	97	91	93	93	92		9961684
D4-1,2-Dichloroethane	%	104	102	104	105	106	106		9961684
o-Terphenyl	%	98	98	98	98	97	100		9960197

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 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

TEST SUMMARY

Bureau Veritas ID: ASLF87
Sample ID: MW 1
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/03	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

Bureau Veritas ID: ASLF87 Dup
Sample ID: MW 1
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota

Bureau Veritas ID: ASLF88
Sample ID: MW 2
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/03	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

Bureau Veritas ID: ASLF89
Sample ID: MW 3
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

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TEST SUMMARY

Bureau Veritas ID: ASLF90
Sample ID: MW 4
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

Bureau Veritas ID: ASLF91
Sample ID: MW 6
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

Bureau Veritas ID: ASLF92
Sample ID: MW 7
Matrix: Water

Collected: 2025/06/26
Shipped:
Received: 2025/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9959971	N/A	2025/07/02	Automated Statchk
Chromium (VI) in Water	IC	9960659	N/A	2025/06/30	Rupinder Sihota
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9961684	N/A	2025/07/02	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9960197	2025/06/29	2025/06/30	Jeevaraj Jeevaratrnam
Mercury	CV/AA	9960669	2025/06/30	2025/06/30	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9960077	N/A	2025/06/30	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9960196	2025/06/29	2025/06/30	Biljana Lazovic

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GENERAL COMMENTS

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

Package 1	8.7°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
9960077	PBA	Matrix Spike	Dissolved Antimony (Sb)	2025/06/30		104	%	80 - 120
			Dissolved Arsenic (As)	2025/06/30		102	%	80 - 120
			Dissolved Barium (Ba)	2025/06/30		103	%	80 - 120
			Dissolved Beryllium (Be)	2025/06/30		103	%	80 - 120
			Dissolved Boron (B)	2025/06/30		102	%	80 - 120
			Dissolved Cadmium (Cd)	2025/06/30		102	%	80 - 120
			Dissolved Chromium (Cr)	2025/06/30		104	%	80 - 120
			Dissolved Cobalt (Co)	2025/06/30		100	%	80 - 120
			Dissolved Copper (Cu)	2025/06/30		104	%	80 - 120
			Dissolved Lead (Pb)	2025/06/30		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/06/30		103	%	80 - 120
			Dissolved Nickel (Ni)	2025/06/30		99	%	80 - 120
			Dissolved Selenium (Se)	2025/06/30		102	%	80 - 120
			Dissolved Silver (Ag)	2025/06/30		99	%	80 - 120
			Dissolved Sodium (Na)	2025/06/30		NC	%	80 - 120
			Dissolved Thallium (Tl)	2025/06/30		99	%	80 - 120
			Dissolved Uranium (U)	2025/06/30		98	%	80 - 120
			Dissolved Vanadium (V)	2025/06/30		104	%	80 - 120
			Dissolved Zinc (Zn)	2025/06/30		99	%	80 - 120
9960077	PBA	Spiked Blank	Dissolved Antimony (Sb)	2025/06/30		102	%	80 - 120
			Dissolved Arsenic (As)	2025/06/30		101	%	80 - 120
			Dissolved Barium (Ba)	2025/06/30		101	%	80 - 120
			Dissolved Beryllium (Be)	2025/06/30		101	%	80 - 120
			Dissolved Boron (B)	2025/06/30		99	%	80 - 120
			Dissolved Cadmium (Cd)	2025/06/30		100	%	80 - 120
			Dissolved Chromium (Cr)	2025/06/30		101	%	80 - 120
			Dissolved Cobalt (Co)	2025/06/30		99	%	80 - 120
			Dissolved Copper (Cu)	2025/06/30		102	%	80 - 120
			Dissolved Lead (Pb)	2025/06/30		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2025/06/30		101	%	80 - 120
			Dissolved Nickel (Ni)	2025/06/30		99	%	80 - 120
			Dissolved Selenium (Se)	2025/06/30		100	%	80 - 120
			Dissolved Silver (Ag)	2025/06/30		97	%	80 - 120
			Dissolved Sodium (Na)	2025/06/30		97	%	80 - 120
			Dissolved Thallium (Tl)	2025/06/30		99	%	80 - 120
			Dissolved Uranium (U)	2025/06/30		97	%	80 - 120
			Dissolved Vanadium (V)	2025/06/30		101	%	80 - 120
			Dissolved Zinc (Zn)	2025/06/30		98	%	80 - 120
9960077	PBA	Method Blank	Dissolved Antimony (Sb)	2025/06/30	ND, RDL=0.50		ug/L	
			Dissolved Arsenic (As)	2025/06/30	ND, RDL=1.0		ug/L	
			Dissolved Barium (Ba)	2025/06/30	ND, RDL=2.0		ug/L	
			Dissolved Beryllium (Be)	2025/06/30	ND, RDL=0.40		ug/L	
			Dissolved Boron (B)	2025/06/30	ND, RDL=10		ug/L	
			Dissolved Cadmium (Cd)	2025/06/30	ND, RDL=0.090		ug/L	
			Dissolved Chromium (Cr)	2025/06/30	ND, RDL=5.0		ug/L	
			Dissolved Cobalt (Co)	2025/06/30	ND, RDL=0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Copper (Cu)	2025/06/30	ND, RDL=0.90		ug/L	
			Dissolved Lead (Pb)	2025/06/30	ND, RDL=0.50		ug/L	
			Dissolved Molybdenum (Mo)	2025/06/30	ND, RDL=0.50		ug/L	
			Dissolved Nickel (Ni)	2025/06/30	ND, RDL=1.0		ug/L	
			Dissolved Selenium (Se)	2025/06/30	ND, RDL=2.0		ug/L	
			Dissolved Silver (Ag)	2025/06/30	ND, RDL=0.090		ug/L	
			Dissolved Sodium (Na)	2025/06/30	ND, RDL=100		ug/L	
			Dissolved Thallium (Tl)	2025/06/30	ND, RDL=0.050		ug/L	
			Dissolved Uranium (U)	2025/06/30	ND, RDL=0.10		ug/L	
			Dissolved Vanadium (V)	2025/06/30	ND, RDL=0.50		ug/L	
			Dissolved Zinc (Zn)	2025/06/30	ND, RDL=5.0		ug/L	
9960077	PBA	RPD	Dissolved Antimony (Sb)	2025/06/30	NC		%	20
			Dissolved Arsenic (As)	2025/06/30	1.4		%	20
			Dissolved Barium (Ba)	2025/06/30	1.7		%	20
			Dissolved Beryllium (Be)	2025/06/30	NC		%	20
			Dissolved Boron (B)	2025/06/30	1.9		%	20
			Dissolved Cadmium (Cd)	2025/06/30	NC		%	20
			Dissolved Chromium (Cr)	2025/06/30	NC		%	20
			Dissolved Cobalt (Co)	2025/06/30	NC		%	20
			Dissolved Copper (Cu)	2025/06/30	NC		%	20
			Dissolved Lead (Pb)	2025/06/30	NC		%	20
			Dissolved Molybdenum (Mo)	2025/06/30	0.94		%	20
			Dissolved Nickel (Ni)	2025/06/30	NC		%	20
			Dissolved Selenium (Se)	2025/06/30	NC		%	20
			Dissolved Silver (Ag)	2025/06/30	NC		%	20
			Dissolved Sodium (Na)	2025/06/30	0.31		%	20
			Dissolved Thallium (Tl)	2025/06/30	NC		%	20
			Dissolved Uranium (U)	2025/06/30	8.0		%	20
			Dissolved Vanadium (V)	2025/06/30	3.1		%	20
			Dissolved Zinc (Zn)	2025/06/30	NC		%	20
9960196	BLZ	Matrix Spike	D10-Anthracene	2025/06/30		98	%	50 - 130
			D14-Terphenyl (FS)	2025/06/30		94	%	50 - 130
			D8-Acenaphthylene	2025/06/30		89	%	50 - 130
			Acenaphthene	2025/06/30		100	%	50 - 130
			Acenaphthylene	2025/06/30		100	%	50 - 130
			Anthracene	2025/06/30		102	%	50 - 130
			Benzo(a)anthracene	2025/06/30		100	%	50 - 130
			Benzo(a)pyrene	2025/06/30		97	%	50 - 130
			Benzo(b/j)fluoranthene	2025/06/30		97	%	50 - 130
			Benzo(g,h,i)perylene	2025/06/30		98	%	50 - 130
			Benzo(k)fluoranthene	2025/06/30		94	%	50 - 130
			Chrysene	2025/06/30		97	%	50 - 130
			Dibenzo(a,h)anthracene	2025/06/30		101	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluoranthene	2025/06/30		101	%	50 - 130
			Fluorene	2025/06/30		100	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/06/30		100	%	50 - 130
			1-Methylnaphthalene	2025/06/30		103	%	50 - 130
			2-Methylnaphthalene	2025/06/30		106	%	50 - 130
			Naphthalene	2025/06/30		124	%	50 - 130
			Phenanthrene	2025/06/30		98	%	50 - 130
			Pyrene	2025/06/30		100	%	50 - 130
9960196	BLZ	Spiked Blank	D10-Anthracene	2025/06/30		99	%	50 - 130
			D14-Terphenyl (FS)	2025/06/30		100	%	50 - 130
			D8-Acenaphthylene	2025/06/30		91	%	50 - 130
			Acenaphthene	2025/06/30		98	%	50 - 130
			Acenaphthylene	2025/06/30		99	%	50 - 130
			Anthracene	2025/06/30		100	%	50 - 130
			Benzo(a)anthracene	2025/06/30		98	%	50 - 130
			Benzo(a)pyrene	2025/06/30		96	%	50 - 130
			Benzo(b/j)fluoranthene	2025/06/30		96	%	50 - 130
			Benzo(g,h,i)perylene	2025/06/30		91	%	50 - 130
			Benzo(k)fluoranthene	2025/06/30		96	%	50 - 130
			Chrysene	2025/06/30		96	%	50 - 130
			Dibenzo(a,h)anthracene	2025/06/30		96	%	50 - 130
			Fluoranthene	2025/06/30		101	%	50 - 130
			Fluorene	2025/06/30		98	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2025/06/30		94	%	50 - 130
			1-Methylnaphthalene	2025/06/30		102	%	50 - 130
			2-Methylnaphthalene	2025/06/30		103	%	50 - 130
			Naphthalene	2025/06/30		120	%	50 - 130
			Phenanthrene	2025/06/30		96	%	50 - 130
			Pyrene	2025/06/30		100	%	50 - 130
9960196	BLZ	Method Blank	D10-Anthracene	2025/06/30		101	%	50 - 130
			D14-Terphenyl (FS)	2025/06/30		98	%	50 - 130
			D8-Acenaphthylene	2025/06/30		92	%	50 - 130
			Acenaphthene	2025/06/30	ND, RDL=0.050		ug/L	
			Acenaphthylene	2025/06/30	ND, RDL=0.050		ug/L	
			Anthracene	2025/06/30	ND, RDL=0.050		ug/L	
			Benzo(a)anthracene	2025/06/30	ND, RDL=0.050		ug/L	
			Benzo(a)pyrene	2025/06/30	ND, RDL=0.0090		ug/L	
			Benzo(b/j)fluoranthene	2025/06/30	ND, RDL=0.050		ug/L	
			Benzo(g,h,i)perylene	2025/06/30	ND, RDL=0.050		ug/L	
			Benzo(k)fluoranthene	2025/06/30	ND, RDL=0.050		ug/L	
			Chrysene	2025/06/30	ND, RDL=0.050		ug/L	
			Dibenzo(a,h)anthracene	2025/06/30	ND, RDL=0.050		ug/L	
			Fluoranthene	2025/06/30	ND, RDL=0.050		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluorene	2025/06/30	ND, RDL=0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2025/06/30	ND, RDL=0.050		ug/L	
			1-Methylnaphthalene	2025/06/30	ND, RDL=0.050		ug/L	
			2-Methylnaphthalene	2025/06/30	ND, RDL=0.050		ug/L	
			Naphthalene	2025/06/30	ND, RDL=0.050		ug/L	
			Phenanthrene	2025/06/30	ND, RDL=0.030		ug/L	
			Pyrene	2025/06/30	ND, RDL=0.050		ug/L	
9960196	BLZ	RPD	Acenaphthene	2025/06/30	NC		%	30
			Acenaphthylene	2025/06/30	NC		%	30
			Anthracene	2025/06/30	NC		%	30
			Benzo(a)anthracene	2025/06/30	NC		%	30
			Benzo(a)pyrene	2025/06/30	NC		%	30
			Benzo(b/j)fluoranthene	2025/06/30	NC		%	30
			Benzo(g,h,i)perylene	2025/06/30	NC		%	30
			Benzo(k)fluoranthene	2025/06/30	NC		%	30
			Chrysene	2025/06/30	NC		%	30
			Dibenzo(a,h)anthracene	2025/06/30	NC		%	30
			Fluoranthene	2025/06/30	NC		%	30
			Fluorene	2025/06/30	NC		%	30
			Indeno(1,2,3-cd)pyrene	2025/06/30	NC		%	30
			1-Methylnaphthalene	2025/06/30	NC		%	30
			2-Methylnaphthalene	2025/06/30	NC		%	30
			Naphthalene	2025/06/30	NC		%	30
			Phenanthrene	2025/06/30	NC		%	30
			Pyrene	2025/06/30	NC		%	30
9960197	JJE	Matrix Spike	o-Terphenyl	2025/06/30		100	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/30		94	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/06/30		97	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/06/30		83	%	60 - 140
9960197	JJE	Spiked Blank	o-Terphenyl	2025/06/30		98	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/30		94	%	60 - 140
			F3 (C16-C34 Hydrocarbons)	2025/06/30		99	%	60 - 140
			F4 (C34-C50 Hydrocarbons)	2025/06/30		87	%	60 - 140
9960197	JJE	Method Blank	o-Terphenyl	2025/06/30		96	%	60 - 140
			F2 (C10-C16 Hydrocarbons)	2025/06/30	ND, RDL=90		ug/L	
			F3 (C16-C34 Hydrocarbons)	2025/06/30	ND, RDL=200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2025/06/30	ND, RDL=200		ug/L	
9960197	JJE	RPD	F2 (C10-C16 Hydrocarbons)	2025/06/30	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2025/06/30	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2025/06/30	NC		%	30
9960659	RSU	Matrix Spike [ASLF87-01]	Chromium (VI)	2025/06/30		101	%	80 - 120
9960659	RSU	Spiked Blank	Chromium (VI)	2025/06/30		103	%	80 - 120
9960659	RSU	Method Blank	Chromium (VI)	2025/06/30	ND, RDL=0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9960659	RSU	RPD [ASLF87-01]	Chromium (VI)	2025/06/30	NC		%	20
9960669	MPJ	Matrix Spike	Mercury (Hg)	2025/06/30		89	%	75 - 125
9960669	MPJ	Spiked Blank	Mercury (Hg)	2025/06/30		91	%	80 - 120
9960669	MPJ	Method Blank	Mercury (Hg)	2025/06/30	ND, RDL=0.10		ug/L	
9960669	MPJ	RPD	Mercury (Hg)	2025/06/30	NC		%	20
9961684	RGA	Matrix Spike	1,4-Difluorobenzene	2025/07/02		97	%	70 - 130
			4-Bromofluorobenzene	2025/07/02		103	%	70 - 130
			D10-o-Xylene	2025/07/02		88	%	70 - 130
			D4-1,2-Dichloroethane	2025/07/02		99	%	70 - 130
			Benzene	2025/07/02		87	%	50 - 140
			Toluene	2025/07/02		86	%	50 - 140
			Ethylbenzene	2025/07/02		94	%	50 - 140
			o-Xylene	2025/07/02		92	%	50 - 140
			p+m-Xylene	2025/07/02		93	%	50 - 140
			F1 (C6-C10)	2025/07/02		100	%	60 - 140
9961684	RGA	Spiked Blank	1,4-Difluorobenzene	2025/07/02		96	%	70 - 130
			4-Bromofluorobenzene	2025/07/02		103	%	70 - 130
			D10-o-Xylene	2025/07/02		87	%	70 - 130
			D4-1,2-Dichloroethane	2025/07/02		98	%	70 - 130
			Benzene	2025/07/02		88	%	50 - 140
			Toluene	2025/07/02		88	%	50 - 140
			Ethylbenzene	2025/07/02		96	%	50 - 140
			o-Xylene	2025/07/02		94	%	50 - 140
			p+m-Xylene	2025/07/02		96	%	50 - 140
			F1 (C6-C10)	2025/07/02		100	%	60 - 140
9961684	RGA	Method Blank	1,4-Difluorobenzene	2025/07/02		100	%	70 - 130
			4-Bromofluorobenzene	2025/07/02		98	%	70 - 130
			D10-o-Xylene	2025/07/02		92	%	70 - 130
			D4-1,2-Dichloroethane	2025/07/02		102	%	70 - 130
			Benzene	2025/07/02	ND, RDL=0.20		ug/L	
			Toluene	2025/07/02	ND, RDL=0.20		ug/L	
			Ethylbenzene	2025/07/02	ND, RDL=0.20		ug/L	
			o-Xylene	2025/07/02	ND, RDL=0.20		ug/L	
			p+m-Xylene	2025/07/02	ND, RDL=0.40		ug/L	
			Total Xylenes	2025/07/02	ND, RDL=0.40		ug/L	
			F1 (C6-C10)	2025/07/02	ND, RDL=25		ug/L	
			F1 (C6-C10) - BTEX	2025/07/02	ND, RDL=25		ug/L	
9961684	RGA	RPD	Benzene	2025/07/02	NC		%	30
			Toluene	2025/07/02	NC		%	30
			Ethylbenzene	2025/07/02	NC		%	30
			o-Xylene	2025/07/02	NC		%	30
			p+m-Xylene	2025/07/02	NC		%	30
			Total Xylenes	2025/07/02	NC		%	30
			F1 (C6-C10)	2025/07/02	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
			F1 (C6-C10) - BTEX	2025/07/02	NC		%	30

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).

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.

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RLC-HydroG

ATTACHMENT K

Spill Response Plan

Spill Response Plan

Town of Smiths Falls Compost Site

The Town of Smiths Falls addresses spill response within the broader framework of its Municipal Emergency Management Program, which focuses on hazard identification, planning, training, exercises, and public education to ensure community preparedness and resilience against various emergencies, including potential spills. Spill response is integrated into the municipality's comprehensive emergency management efforts and its commitment to protecting the environment and drinking water.

1. Purpose

This plan outlines procedures for responding to accidental spills at the Smiths Falls Compost Site, where potential sources of contamination include petroleum hydrocarbons (PHCs) and BTEX compounds associated with vehicular traffic and mobile machinery (e.g., loader and contractor screening equipment). All vehicles and machinery are stored, refueled, and serviced offsite.

2. Scope

This plan applies to all site personnel and contractors operating at the compost facility.

3. Potential Spill Sources

- Leaks or minor spills from mobile equipment during operation (e.g., hydraulic fluid, diesel, motor oil).
- Accidental rupture of fuel or oil lines on vehicles in use.

4. Spill Prevention Measures

- All equipment is stored, refueled, and serviced offsite.
- Routine visual inspections of equipment before operation.
- Operators trained in spill recognition and response.
- Spill response kits maintained onsite near operational areas.

5. Spill Response Procedure

In the event of a spill:

- **Step 1: Ensure safety.**
  Stop work and secure the area. Avoid contact with spilled material.
- **Step 2: Contain the spill.**
  Use absorbent socks, pads, or booms to prevent spread, especially near stormwater conveyances or permeable ground.
- **Step 3: Notify supervisor and Town representative.**
  Report all spills immediately, regardless of size.
    - Phone: 613.283.4124
      Email: info@smithsfalls.ca
- **Step 4: Clean up the spill.**
  Use absorbents and dispose of contaminated material in accordance with provincial guidelines.
- **Step 5: Record and report.**
  Complete an incident report including date, time, material spilled, estimated volume, cause, response actions, and disposal method.
- **Step 6: Notify authorities if required.**
  If the spill exceeds reportable quantities under **Ontario Regulation 675/98 (Spills)**, contact the **Spills Action Centre (1-800-268-6060)**.

6. Equipment and Materials

- Onsite spill response kit to include:
    - Absorbent pads and booms
    - Disposal bags
    - Nitrile gloves and safety goggles
    - Dustpan and broom
    - Instructions and contact list

7. Training and Review

- All site personnel and contractors shall be trained in this plan annually.
- This plan shall be reviewed and updated annually or after any spill incident.